WINMATE
www.winmate.com

MOBILE SOLUTIONS

ULTIMATE
PRODUCTIVITY IN A
RUGGED FORM FACTOR

RUGGED MOBILE COMPUTER

RUGGED TABLET PC

ULTRA RUGGED TABLET PC

VEHICLE MOUNT COMPUTER

MARKET READY SOLUTION

MOBILE SOLUTIONS

TABLE OF CONTENTS

Introduction

About Winmate

Winmate Inc. is a rugged computing and embedded solutions provider for industries operating in some of the most challenging environments. Founded in 1996 in Taipei, Taiwan where its headquarters, research and development facility, and production lines are located, today the company has offices and service centers worldwide.

Winmate develops rugged industrial-grade computing solutions that advance the edge AI system, and Industrial Internet-of-Things (IoT). Industrial display and panel PC, HMI, embedded systems, IoT gateways to rugged tablets and handheld devices for industries ranging from transportation and logistics to marine and military, railway, oil and gas, smart grid, healthcare, and field services. Winmate also provides professional services in customizing products and project management create a unique solution for specific customer's needs.

Industry Solutions

Winmate offers rugged computing solutions for vertical markets, includingmobile solutions, embedded applications, industrial systems, vehicle-mounted computers, digital signage and medical solutions. Such huge range of solutions in various sectors indicates that Winmate comes equipped with the know-how and competitive capabilities to outshine the market.

We also deliver pre- and after-sales services across the world at the same strict, high quality level, that is, you can count on us to get your back up always, wherever you are!

Rugged Computing Solutions Tailored for Industrial Applications

Global Reach

Winmate is at the forefront of technological innovation with its best in-class service offerings available around the globe. Service offices in the USA, Canada, Germany, China and Taiwan have made Winmate be able to offer responsive, reliable and quick support on all of our products.

The Winmate Difference

Innovation and Ruggedness
Blending innovations and ruggedness, our products are designed to meet the requirements of vertical markets' environmental standards.

Engineering Intelligence
We are committed to maintaining the highest standards in engineering excellence to ensure our products deliver reliability, durability, and optimized performance.

Quality Commitment
Quality assurance and entire engineering processes are under go in-house. This is why we invested significantly in our state-of-the-art testing facility and offer global support.

> "INNOVATIVE TECHNOLOGY FOR OPERATIONAL EXCELLENCE."

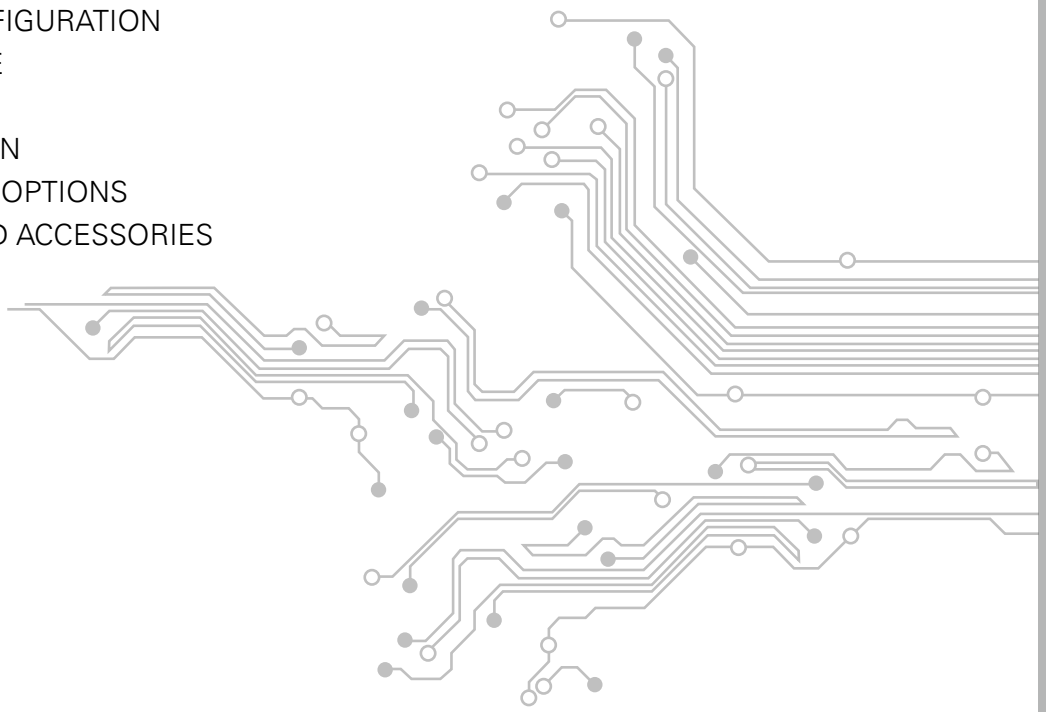
Efficiency
Our team is committed to efficiency and maintaining the shortest possible development cycles. From design to testing the whole development process undergoes in-house to achieve the market advantage in speed and quality.

Reliability
Reliability, service and support are part of our foundation. Every product undergoes the scrutiny of industrial standards testing to verify electrical, mechanical, thermal, and firmware design performance.

Customized Solutions

Years of experience allow Winmate to offer customized solutions for different applications. From product design to accessories, our engineering team designs and support the system integration process.

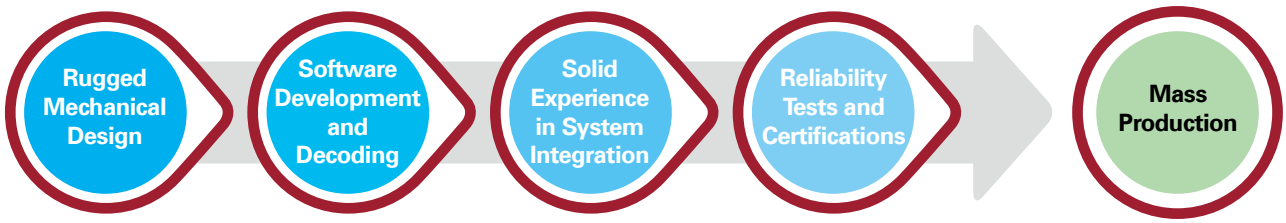
- CUSTOMIZED CONFIGURATION
- CUSTOM OS IMAGE
- CUSTOM BIOS
- ENCLOSURE DESIGN
- PERIPHERALS AND OPTIONS
- CUSTOM-DESIGNED ACCESSORIES



Introduction

Technical Know-How

We understand that, for enterprises operating in rugged or potentially hazardous environments, the access to the cutting-edge solutions purpose-built for their applications is imperative. As a result, Winmate locates its resources from project research and design, software development and customization, product verification and validation, to testing all in house in order to gain maximized freedom to research and implement the latest technologies available.

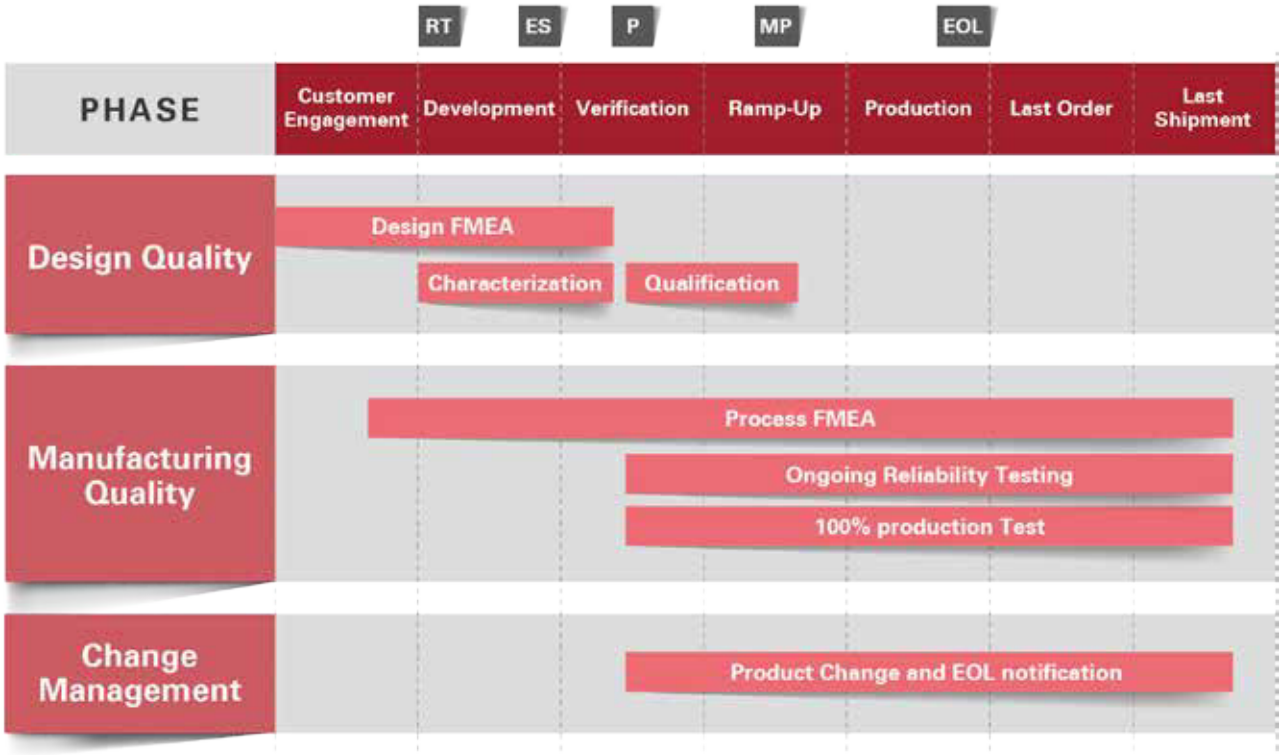


The latest technologies we deploy for our rugged products:

- Dry and wet optical bonding
- Panel enhancement for sunlight readability
- Anti-reflection (AR) and anti-glare (AG) glass protection coating
- Light sensor
- Hyper dimming
- Electronic potting
- Touch screen integration: projected capacitive, resistive or SAW touch
- Waterproof enclosure
- Military EMI and mesh coating
- Wireless capabilities
- Data capture devices integration
- Defroster for ultra-low temperature environments
- 316 Stainless steel
- Shock and vibration resistance
- Wide-range operation temperature

Product Development Life Cycle

Winmate has total knowledge and control of the product's life cycle, from its conception and production in our factories to distribution:



Strategic Partnership

For enterprises operating in difficult or potentially hazardous environments, access to the latest technology, built specifically for these demanding industries, is imperative. The engineering process and in-depth knowledge of electrical, mechanical, thermal and firmware design ensure optimized performance, durability and reliability with every rugged product we create. Our technologies undergo a battery of tests at our in-house, state-of-the-art testing facility to verify this performance.

We have also forged strategic partnerships with leading technology companies in order to provide you with the cutting-edge, industrial-grade communication tools to maximize your operational efficiency, safety, asset tracking and data management. With partners such as Microsoft, Intel, Qualcomm and AWS, we have the advantage of gaining early access to the latest developments, which means we can provide our customers with cutting-edge technology and software.

Introduction

Reliability Test Facilities

Winmate provides consulting and testing services to ensure products are in compliance with the latest global industrial standards and regulations. By working closely with the regulatory agencies Winmate guarantees that the product time to market is minimized. The results are documented and provided to regulatory agencies for certification.

In-house testing lab allows Winmate to achieve high standards of product reliability and ruggedness with the shortest possible product development cycle.Rather than outsourcing critical reliability test, Winmate is able to perform vibration, drop, thermal and dry heat, and EMC and EMI tests, as well as radio emission and susceptibility, giving us the market advantage in speed and quality.

Winmate also offers a wide range of customer support services and has implemented an extensive environmental protection policy to meet the standards of the electronics industry. To learn more, visit our website at www.winmate.com.

In-House Testing Lab:

Quality Assurance

Winmate promotes standardization of material, facilities, and engineering practices to improve industrial safety standards and regulations, while reducing the total cost of ownership and acquisition cycle time. Our materials, tools, facilities, engineering, and testing practices are designed to ensure reliability and durability.

At Winmate we developed and implemented a quality management system based on a process management approach. This allows us to maintain consistency in product service and support, and meet all applicable regulatory requirements, while remaining nimble and flexible enough to evolve with technology and industry need. The quality system complies with the international standard ISO 9001:2015 and the standards which apply to related industries.

Quality Information Summary

Certification	Registration Date	Expiration Date	Certifying Agency
Quality Management Systems (QMS)			
ISO 9001:2015 Registered	2019/8/22	2022/8/22	SGS
ISO 14001:2015 Registered	2019/8/22	2022/8/22	SGS
Other registrations, certifications and special process capabilities			
IECQ QC 080000: 2017	2019/9/5	2022/9/4	SGS
ISO 13485: 2016	2018/12/19	2021/12/19	SGS
IEC80079-34: 2011	2015/6/20	2021/6/29	CSA

Product Certification

Tailored for industrial applications, Winmate's products go through serious product testing to comply with international industry standards and regulations. Product certifications verify how components perform under real-world conditions. It is an independent evidence for the product quality, reliability and safety. Our products have proved themselves in numerous projects right around the globe in hazardous locations, marine, transportation, healthcare, military and other industrial environments.

Introduction

Environmental Protection & Responsibility

Winmate Inc. acknowledges a responsibility to the environment, and expresses our commitment towards implementing practices which will promote environmental sustainability. The following policy governs the management of the environmental aspects of our company, with specific focus on the conservation of resources and the reduction of waste.This policy relates to how all operations in our company will be continually reviewed and improved, so that we will truly be able to integrate environmental and social considerations into our everyday practices.Winmate will consistently strive to raise awareness in the community, encourage participation and train employees in environmental matters.

Green Manufacturing

Winmate Inc. assimilates green managementinto every stage of product design and development and implements continuous improvement projects in the areas of climate change, energy management, water management, waste management and air pollution control.We follow Green Product Design principles and consider the environmental impacts of raw material procurement, manufacturing, transportation and distribution, consumer use, and recycling. Winmate's goal is to facilitate coexistence and mutual prosperity between our business and the environment.

- ISO 14001, Environmental Managemen System Certification
- ISO 14064, International Standard for GHG Emissions Inventories and Verification
- Pollution Prevention
- Chemicals and Waste Management

- Packaging Optimization
- Transportation Time Minimization
- Carton Recycling

- IECQ/QC 080000 Hazardous Substance Management System
- Compliance withRoHS, REACH and SVHC related substances
- Conflict Minerals Compliance

- Product Safety and Regulatory Compliance, including UL, FCC, BSMI, etc.

- Follow EU Waste
- Electrical and Electronic
- Equipment Directive

Environmental Protection & Responsibility

EU RoHS Declaration of Conformity

The RoHS Directive is a CE marking Directive. This means that equipment within its scope must carry a CE marking if it is offered for sale or placed on the market in the EU. The CE marking is applied by the manufacturer (or Authorized Representative, if mandated) on the product.

Winmate Inc. hereby certify that any substances used in homogeneous materials, parts, semi-finished products, manufacturing process, and products meet the regulatory compliance of RoHS Directive.

Besides, our lead-free production line and process, including solder paste, solder bar and process control parameters, has been developed and standardized in our manufacturing system.

Conflict Free Minerals Policy

As Reported by EICC (Electronic Industry Citizenship Coalition) and GeSI (Global e-Sustainability initiative), that the origin of these minerals has become the Democratic Republic of Congo's Main revenue sources of armed rebel groups, to deal in arms, continued its bloody conflict between government forces, devastated the local civilian population, thus triggering international disputes.

Winmate Inc. as the global citizen, we declare and commit to refuse the application of metals from fighting region; meanwhile, we request Winmate supply chain to obey and guarantee the things below:

Our sourcing policy for Conflict Free Minerals:

- Conduct your operation in a way of social and environmental responsibility
- Not use the conflict minerals originated from the Democratic Republic of the Congo (DRC) and its adjoining countries
- Make the same requirements to your upstream suppliers

Industries

Winmate understands the need for ruggedness and uninterrupted productivity when it comes to operating in challenging environments. We provide application-ready computing solutions for marine and military, oil and gas, warehouse and logistics, factory automation, healthcare and other industrial vertical markets.

Oil & Gas

ATEX and Class 1 Division 2 (C1D2) certified solutions for collecting data in remote rig and pipeline locations.

Marine

IEC 60945 compliance and DNV (Det Norske Veritas) certified solutions for maritime applications in a vessel or bridge.

Military

Rugged military products that comply with MIL-STD-810G environmental and MIL-STD-461F EMC standards.

Healthcare

Certified for healthcare applications, our computing devices are made for safe operations and collecting sensitive data in a hospital environment.

Food & Beverage Industry

Waterproof IP69K, IP67 and IP65 panel PC and display meet high hygiene standards, resist moisture and chemical cleaning.

Factory Automation

Wide range of advanced technologies for factoryautomation from data collection to operator control and remote device management.

Warehouse & Logistics

Vehicle mounted computers for inventory management whether in inventory delivery, port logistics or warehousing.

Field Service

Rugged mobile computers for data collection needs of workshops, field surveys, delivery services.

Public Safety

Compact and rugged data capture devices for public safety applications.

Transportation

Track and optimize routes with our vehicle mounted computers or rugged tablets with vehicle docking.

Vehicle Diagnostics

Rugged technology for your vehicle servicing solution and car repair workshop applications.

Utilities

Embedded systems and gateways for data collection and transfer in remote locations. Connect everything, control everywhere!

Product Highlights

Highlights indicate Winmate's recommended and most popular products from our extensive product portfolio, including x-86 and Arm Mobile Solutions, Embedded Systems, Panel PC and HMI, and Display categories.

Mobile x86

13.3" Ultra-Rugged Tablet
M133K/M133WK

p.58

- Intel® Core™ i5-7200U
- Intel® Core™ i5-8265U

10.1" Rugged Tablet
M116P

p.44

- Intel® Pentium® N4200

10.1" Rugged Tablet
M116K

p.44

- Intel® Core™ i5-7200U

10.1" Rugged Tablet
M101P

p.40

- Intel® Pentium N4200

13.3" Ultra-Rugged Tablet
M101S

p.40

- Intel® Core™ i5-7200U

8" Rugged Tablet with QWERTY
M101PK

Q2, 2020

p.34

- Intel® Pentium N4200

8" Rugged Tablet
M900P

p.32

- Intel® Pentium® N4200

8" Rugged Tablet with Smart Card Reader
M900PT

p.32

- Intel® Pentium® N4200

7" Vehicle Mount Computer
FM07

p.63

- Intel® Celeron® N3350

Mobile Arm

5" Rugged Tablet
E500QK
Q2, 2020

QUALCOMM

p.24

- Qualcomm® Snapdragon™ 660

7" Rugged Tablet
M700DQ8
Q1, 2020

QUALCOMM

p.30

- Qualcomm® Snapdragon™ 660

7" Vehicle Mount Computer
FM07A

E

p.65

- Arm Cortex-A9

8" Rugged Tablet
M900Q8
Q2, 2020

QUALCOMM

p.36

- Qualcomm® Snapdragon™ 660

10.1" Rugged Tablet
M101Z
Q4, 2020

QUALCOMM

p.98

- Qualcomm® Snapdragon™ 660

10.4" Rugged Tablet
FM10Q
Q2, 2020

QUALCOMM

p.72

- Qualcomm® Snapdragon™ 660


PLANNED
01:29:18
RUNNING
01:29:18
SHIFT
JOB
OUT
EVENTS
STARTS
SETUP
01:29:18

RUGGED MOBILE COMPUTER

Rugged Mobile Computer

Overview

Winmate's rugged mobile solutions are built to withstand rigors of the harshest environments and designed to improve efficiency and productivity of field workers. Durable mobile computers provide workers with access to information anytime no matter where the task brings them. Wireless connectivity, data collection and data transfer allow you to keep in touch with the operators all day long.

Our rugged mobile computers include:

- The latest Android™ or Windows® operating system
- Advanced data collection options
- Durable design

Winmate's rugged mobile computers are built to last, reducing total cost of ownership over time. Retailers, manufacturers, logistics companies and field service organizations all choose Winmate mobile computers to improve daily operations.

Technology

Winmate's Rugged Mobile Computers are pocket-sized mobile devices packing powerful mobile computing performance, convenient connectivity and data capture capabilities, which are essential for enhancing service level for a variety of vertical applications within the retail, hospitality and field service sectors.

- **Barcode Scanner –** Winmate's Rugged Mobile computers are 1D/2D Barcode Scanner configurable to serve as multi-use devices that support a wide variety of field workers while maintaining constant communication with co-workers and the central server.

- **Smart Card Reader –** Handheld device equipped with Smart Card Reader is a compact, ergonomic, and rugged solution for a wide range of applications where information security is a priority – medical identification, e-government and e-commerce applications. The device securely inputs the sensitive data from ID card to the system and guarantees the safety and confidentiality of information.

- **Fingerprint Scanner –** In the areas where the work content varies by confidentiality degree, the importance of information security arise. Fingerprints taken using the handheld device provide access for the information only to authorized personnel, significantly improving information management system on the field.

Product Guide - Rugged Mobile Computer

Our product guide helps you to navigate and find the right product from our excessive product line.

Arm Rugged Mobile Computer	
	
E430RT-C	**E430RT-M**
p.20	**p.20**
	
E430RM4L	**E500RM8**
p.21	**p.23**

4.3" Arm Rugged Mobile Computer

E430 Series

"RUGGED & COMPACT. IDEAL FOR FIELD WORK."

- 4.3" 800 x 480 PCAP touchscreen
- TI Cortex™-A8 OMAP DM3730
- Windows CE 6.0 (E430RT-C)
- Windows WEH 6.5 (E430RT-M)

2MP webcam front camera
5MP rear camera
Wi-Fi, Bluetooth, GPS
260g lightweight portability
USB OTG
3.7V 3900mAh Li-Poly removable battery
IP65 waterproof and dustproof
MIL-STD-810G shock, vibration and drop resistance
Operating temperature -10°C to 50°C

Accessories

Standard			
Universal USB Adapter	Micro USB Cable	Micro SD Card 16GB	Hand Strap
Optional			
Charging Dock	Battery Charging Dock	Vehicle Charging Dock	Battery
Lanyard	Micro USB Host Cable (OTG Cable)	UHF RFID Reader	Mobile Printer

Custom configuration

Barcode Reader | HF RFID Reader | Additional Storage

Application

High Voltage Power Line Inspection

"LIGHTWEIGHT, MOBILE SOLUTION WITH HIGH ACCURACY GPS."

Winmate 4.3" rugged handheld with customization in RFID reader, high accuracy GPS, and software is able to read the tags located at the base of the transmission towers.

4.3" Arm Rugged Mobile Computer

TI Cortex™-A8 OMAP DM3730

Model Name	4.3"	4.3"
	E430RT-C	E430RT-M
Display		
Resolution	800 x 480	800 x 480
Panel Brightness	400 nits	400 nits
Contrast Ratio	800:1 (Typ.)	800:1 (Typ.)
Touch	PCAP touchscreen	PCAP touchscreen
System		
Processor	TI Cortex™-A8 OMAP DM3730 (1 GHz)	TI Cortex™-A8 OMAP DM3730 (1 GHz)
Memory	512 MB SDRAM	512 MB SDRAM
Storage	512 MB NAND flash, Micro SD Card (Up to 32GB)	512 MB NAND flash, Micro SD Card (Up to 32GB)
OS	Windows CE 6.0	Windows WEH 6.5
Wireless Communications		
WLAN	802.11 b/g/n	802.11 b/g/n
Bluetooth	Bluetooth (V2.1 + EDR)	Bluetooth (V2.1 + EDR)
GPS	Built-in u-Blox GPS	Built-in u-Blox GPS
Connectors		
Connectors	Micro SIM Card Slot, Micro SD Card Slot, USB OTG, Pogo Pin	Micro SIM Card Slot, Micro SD Card Slot, USBOTG, Pogo Pin
Audio		
Audio	Mic, Earphone,1.2W Speaker	Mic, Earphone,1.2W Speaker
User Controls		
Buttons	Volume - +, Power, Function Home, Menu, ESC, Search	Volume - +, Power, Function Home, Menu, ESC, Search
LED Indicators	1 x LED Indicator	1 x LED Indicator
Sensors	Light, Proximity, G-sensor, Digital Compass	Light, Proximity, G-sensor, Digital Compass
Mechanical		
Dimensions	132.57 x 81.87 x 27.4 mm	132.57 x 81.87 x 27.4 mm
Net Weight	260g	260g
Environment		
Operating Temp.	-10°C to 50°C	-10°C to 50°C
Humidity	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
IP Rating	IP65	IP65
Shock	MIL-STD-810G Method 516.6 Procedure I	MIL-STD-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I	MIL-STD-810G Method 514.6 Procedure I
Drop	MIL-STD-810G Method 516.6, 4 ft, Free to concrete	MIL-STD-810G Method 516.6, 4 ft, Free to concrete
Power Considerations		
Adapter	5V/1A, USB	5V/1A, USB
Battery	3.7V 3900mAh Li-Poly	3.7V 3900mAh Li-Poly
Battery Operating Time	20 Hr	20 Hr
Data Capture		
Camera	Rear: 5MP, Front: 2MP	Rear: 5MP, Front: 2MP
Barcode	Motorola SE4500 (Optional)	Motorola SE4500 (Optional)
RFID	HF RFID Reader (Optional)	HF RFID Reader (Optional)
NFC	-	-
Certifications		
Safety	CE, FCC, CCC, UL	CE, FCC, CCC, UL

Custom configuration

Barcode Reader

HF RFID Reader

Additional Storage

Application

High Voltage Power Line Inspection

"LIGHTWEIGHT, MOBILE SOLUTION WITH HIGH ACCURACY GPS."

Winmate 4.3" rugged handheld with customization in RFID reader, high accuracy GPS, and software is able to read the tags located at the base of the transmission towers.

4.3" Arm Rugged Mobile Computer

E430 Series

"RUGGED & COMPACT. IDEAL FOR FIELD WORK."

- 4.3" 800 x 480 PCAP touchscreen
- Arm Cortex-A53
- Android 7.0

2MP webcam front camera
8MP rear camera
WWAN, Wi-Fi, Bluetooth, GPS
260g lightweight portability
USB OTG
3.7V 3900mAh Li-Poly removable battery
IP65 waterproof and dustproof
MIL-STD-810G shock, vibration and drop resistance
Operating temperature -10°C to 50°C

Accessories

Standard			
Universal USB Adapter	Micro USB Cable	Micro SD Card 16GB	Hand Strap
Optional			
Charging Dock	Battery Charging Dock	Vehicle Charging Dock	Battery
Lanyard	Micro USB Host Cable (OTG Cable)	UHF RFID Reader	

4.3” Arm Rugged Mobile Computer

Arm Cortex-A53

Model Name	4.3”
	E430RM4L
Display	
Resolution	800 x 480
Panel Brightness	400 nits
Contrast Ratio	800:1 (Typ.)
Touch	PCAP touchscreen
System	
Processor	Arm Cortex-A53 (Quad-core 1.3 GHz)
Memory	2GB SDRAM
Storage	16GB eMMC (Up to 32GB), Micro SD Card (Up to 32GB)
OS	Android 7.0
Wireless Communications	
WLAN	802.11 a/b/g/n
Bluetooth	Bluetooth 4.0
WWAN	Optional 4G LTE
GPS	Built-in GPS
Connectors	
Connectors	Micro SIM Card Slot, Micro SD Card Slot, USB OTG, Pogo Pin
Audio	
Audio	Mic, Earphone,1.2W Speaker
User Controls	
Buttons	Volume - +, Power, Function Home, Menu, ESC, Search
LED Indicators	1 x LED Indicator
Sensors	Light, Proximity, G-sensor, Digital Compass
Mechanical	
Dimensions	132.57 x 81.87 x 27.4 mm
Net Weight	260g
Environment	
Operating Temp.	-10°C to 50°C
Humidity	10% to 95% (Non-condensing, RH)
IP Rating	IP65
Shock	MIL-STD-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I
Drop	MIL-STD-810G Method 516.6, 4 ft, Free to concrete
Power Considerations	
Adapter	5V/1A, USB
Battery	3.7V 3900mAh Li-Poly
Battery Operating Time	20 Hr
Data Capture	
Camera	Rear: 8MP camera with LED auxiliary light auto focus Front: 2MP camera (Either one with Barcode Reader)
Barcode	Motorola SE4500 (Optional)
RFID	HF RFID Reader (Optional)
NFC	Read / Write, Peer to Peer
Certifications	
Safety	CE, FCC, CCC

Custom configuration

Barcode Reader

Fingerprint Reader

Smart Card Reader

Battery Hotswap

Application

Public Safety

"SPEED UP REAL TIME DATA EXCHANGE AND IDENTIFICATION."

The E500RM8 combines barcode, fingerprint and smart card readers for various data collection options on the field. Customized logo and customized software settings ensure flexibility for deployment in police applications.

5" Arm Rugged Mobile Computer

E500 Series

"ALL-IN-ONE. FOR DATA COLLECTION."

- 5" 1280 x 720 PCAP touchscreen
- Arm Cortex-A53 (E500RM8)
- Qualcomm® Snapdragon™ 660 (E500QK)
- Android 7.0 (E500RM8)
- Android 9.0 (E500QK)

2MP front camera; 8MP rear camera with autofocus and LED flash (E500RM8)
8MP front camera; 13MP rear camera with autofocus and LED flash (E500QK)
Wi-Fi, Bluetooth, GPS
3.7V 3900mAh Li-ion removable battery
IP65 waterproof and dustproof (E500RM8)
IP67 waterproof and dustproof (E500QK)
MIL-STD-810G shock, vibration and drop resistance

Accessories

Standard			
Power Plug	Micro USB Cable	Micro SD Card	Hand Strap
Optional			
Charging Dock	Battery Charging Dock	Battery	

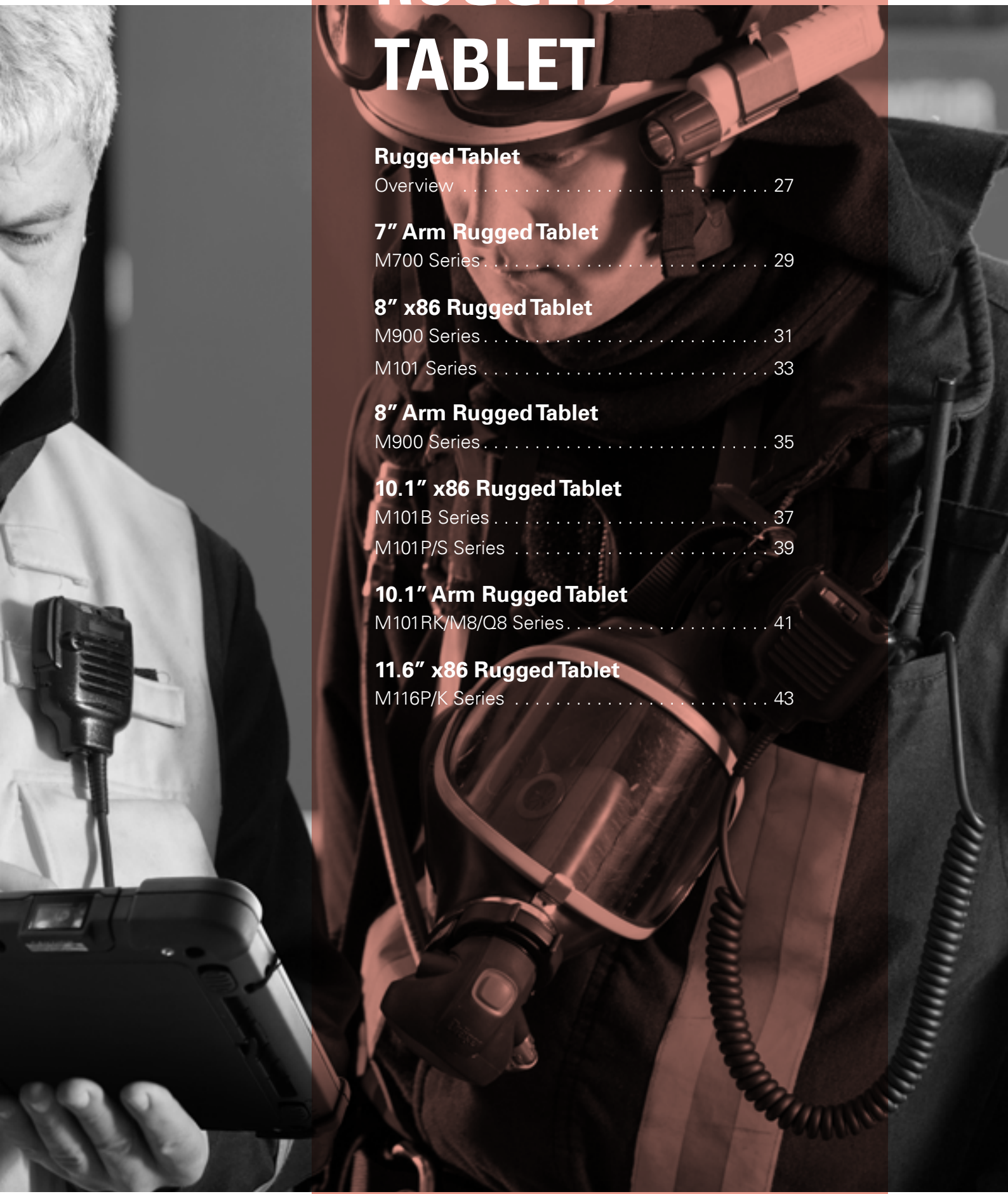
5” Arm Rugged Mobile Computer

Arm Cortex-A53
Qualcomm® Snapdragon™ 660

NEW

Q2, 2020

Model Name	5”	5”
	E500RM8	E500QK
Display		
Resolution	1280 x 720	1280 x 720
Panel Brightness	500 nits	500 nits
Contrast Ratio	800:1 (Typ.)	800:1 (Typ.)
Sensors	Light Sensor, Proximity Sensor, G-sensor, E-compass	Light Sensor, G-sensor, E-compass
Touch	PCAP touchscreen	PCAP touchscreen
System		
Processor	Arm Cortex-A53 (Octa-core 1.3 GHz)	Qualcomm® Snapdragon™ 660 (Octa-core up to 2.2 GHz)
Memory	2GB SDRAM	3GB RAM
Storage	16GB eMMC	32GB eMMC
OS	Android 7.0	Android 9.0
Wireless Communications		
WLAN	802.11 a/b/g/n	802.11 a/b/g/n/ac
Bluetooth	Bluetooth 4.0	Bluetooth 5.0
WWAN	Optional 4G LTE	Optional 4G LTE
GPS	GPS / AGPS / GLONASS	GPS / AGPS / GLONASS
Connectors		
Connectors	2 x Micro SIM Card Slot, 1 x Micro SD Card Slot, 1 x USB OTG, 1x Power Jack, 1 x Docking Connector	1 x Micro SIM Card Slot, 1 x Micro SD Card Slot, 1 x USB TypeC, 1 x Docking Connector
User Controls		
Buttons	1 x Volume - +, 1 x Power button, 2 x Function button, 4 x Front Key	1 x Volume - +, 2 x Function button, 1 x 19 keypad include power key
LED Indicator	1 x LED indicator	1 x LED indicator
Mechanical		
Dimensions	85.9 x 163.2 x 22.5 mm	192 x 92 x 27.5 mm
Net Weight	315 g	370 g
Environment		
Operating Temp.	-10°C to 50°C	-20°C to 60°C
IP Rating	IP65	IP67
Shock	MIL-STD-810G Method 516.6 Procedure I	MIL-STD-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I	MIL-STD-810G Method 514.6 Procedure I
Drop	MIL-STD-810G Method 516.6, 4 ft, Free to concrete	MIL-STD-810G Method 516.6, 4 ft, Free to concrete
Power		
Adapter	5V 2A Adapter	5V (USB Type-C)
Battery	3.7V 3900mAh Li-ion removable battery	3.7V 3900mAh Li-ion battery
Battery Operating Time	20 hrs	-
Data Capture		
Camera	Rear: 8MP camera with LED auxiliary light auto focus Front: 2MP camera (Either one with Barcode Reader)	Rear: 13MP Camera with LED auxilliary light (Auto focus)(Optional) Front: 8MP Camera
Barcode	1D/2D Barcode Reader (Optional)	-
Smart Card	ISO 7816 part 1,2,3 (Optional)	-
Fingerprint	Fingerprint Reader (Optional)	-
NFC	Default NFC (Read / Write, Peer to Peer mode)	-
Certifications		
Safety	CE, FCC, CCC	CE, FCC, CCC



RUGGED TABLET

Rugged Tablet

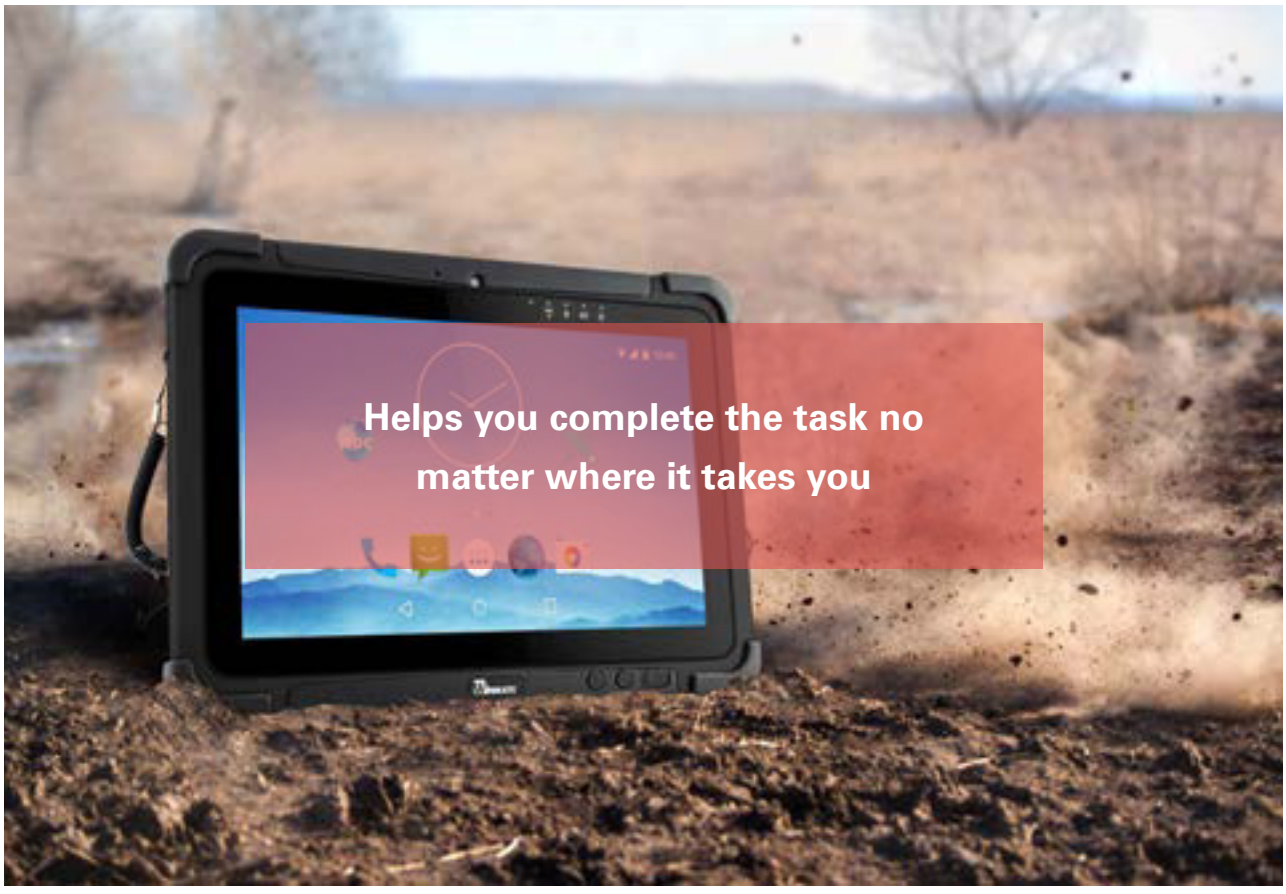
Overview

Mobility is the new trend for industrial applications. With the latest development in mobility and battery management technology, Winmate combines its existing ruggedness, panel technology, and software capabilities and delivers this in our rugged tablet product line.

Our rugged tablets include:

- The latest Android™ or Windows® operating system
- Robust wireless communications
- Data capture possibilities
- IP65 water and dust proofing

With all the application-focused features and data collection options, Winmate rugged mobile devices will fit into your needs no matter where your task takes you.



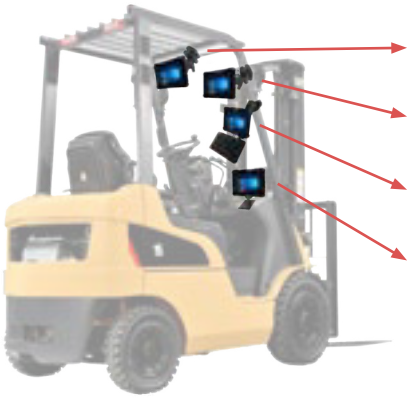
Technology

From inventory management to order fulfillment, asset tracking, and shipping and receiving, the warehouse floor is complex ecosystem that requires high-efficiency technology to keep it running smoothly. Winmate's full line of rugged, mobile tablets are built to endure the rigors of the warehouse, and designed to fit seamlessly into forklifts, trucks, and other warehouse vehicles.

All Winmate mobile tablets are equipped with vehicle docking for easy mounting to a variety of standard VESA mounts or universal AMPS hole patterns, such as those available from RAM Mounts.

		
M101P	Vehicle Dock	M101P + Vehicle Dock

The Vehicle Dock is designed to be mounted to RAM Mount solutions, whom provides various type of mount types to fit any industrial use. Vehicle operators can also connect an external keyboard via USB to speed up data entry and reduce errors.



Product Guide - Rugged Tablet PC

Our product guide helps you to navigate and find the right product from our excessive product line.

x86 Rugged Tablet PC			
			
M101BK/M101PK	M900P/PT	M101P/S	M116P/K
p.33	p.31	p.39	p.43

Arm Rugged Tablet PC			
			
M700DM8	M700DQ8	M900Q8	M900M9
p.29	p.29	p.35	p.35

7" Arm Rugged Tablet

M700 Series

"COMPACT. VIBRATION RESISTANT."

- 7" 1280 x 720 PCAP touchscreen
- Arm Cortex-A53 (M700DM8)
- Qualcomm® Snapdragon™ 660 (M700DQ8)
- Android 7.0 (M700DM8)
- Android 9.0 (M700DQ8)

2MP webcam, 8MP rear camera (M700DM8)
8MP webcam, 13MP rear camera (M700DQ8)
2GB RAM, 16GB eMMC (M700DM8)
3GB RAM, 32GB eMMC (M700DQ8)
Wi-Fi, Bluetooth, GPS, GLONASS
Up to 20 hours battery operating time
IP65 waterproof and dustproof
MIL-STD-810G shock, vibration and drop resistant
Wide operating temperature
Operating temperature -10°C to 50°C

Accessories

Standard				
Universal Adapter	Battery			
Optional				
Battery Charging Dock	Vehicle Dock	Desk Dock	Handstrap	Carry Bag
Micro SD Card	Capacitive Touch Stylus	Mobile Printer	Vehicle Adapter	

Custom configuration

Barcode Reader

Battery Hotswap

Application

Forklift Solution

"FROM FIXED MOUNTING TO PORTABLE SOLUTION."

The M700DM8 rugged tablet with vehicle docking delivers portable and rugged solution for warehouse management and route optimization.

7" Arm Rugged Tablet

Arm Cortex-A53

Qualcomm® Snapdragon™ 660

NEW

Q1, 2020

Model Name	7" (16:9) M700DM8	7" (16:9) M700DQ8
Display		
Resolution	1280 x 720	1280 x 720
Panel Brightness	650 nits	650 nits
Contrast Ratio	800:1 (Typ.)	800:1 (Typ.)
Sensors	G-sensor, light sensor	G-sensor, light sensor
Touch	PCAP touchscreen	PCAP touchscreen
System		
Processor	Arm Cortex-A53 (Octa-core 1.3 GHz)	Qualcomm® Snapdragon™ 660 (Octa-core up to 2.2 GHz)
Memory	2GB DDR3 SDRAM	3GB RAM
Storage	16GB eMMC	32GB eMMC
OS	Android 7.0	Android 9.0
Wireless Communications		
WLAN	802.11 a/b/g/n	802.11 a/b/g/n/ac
Bluetooth	Bluetooth 4.0, Support BLE mode + wide-band speech	Bluetooth 5.0
WWAN	Optional 4G LTE	Optional 4G LTE
GNSS	GPS / AGPS / GLONASS	GPS / AGPS / GLONASS
Connectors		
Connectors	1 x USB OTG, 1 x DC Power Input, 1 x Micro SIM Card Slot, 1 x Micro SD Card Slot	1 x Docking connector, 1 x USB Type-C, 1 x Power Jack, 1 x Micro SIM Card Slot, 1 x Micro SD Card Slot
Audio		
Audio	1 x 1.2W Speaker, 2 x Microphone, 1 x Headset jack (Mic+Earphone)	1 x 1.2 W speaker, 2 x Built-in Mic, 1 x Earphone
User Controls		
Buttons	On-screen QWERTY keyboard Button 1 x Volume +/- , 1 x Power Button, 1 x Home Button, 1 x Menu Button, 1 x Return Button, 1 x Trigger Button	On-screen QWERTY keyboard Button 1 x Volume +/- , 1 x Power Button, 1 x Home Button, 1 x Menu Button, 1 x Return Button, 1 x Trigger Button
LED indicator	Power, Battery	2 x LED indicators (Power, Battery)
Mechanical		
Dimensions	212.4 x 132.8 x 19 mm	212.4 x 132.8 x 19 mm
Net Weight	550g	550g
Environment		
Operating Temp.	-10°C to 50°C	-10°C to 50°C
Humidity	5% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)
IP Rating	IP65	IP65 Certified, waterproof and dustproof
Shock	MIL-STD-810G M516.6	MIL-STD-810G M516.6
Vibration	MIL-STD-810G M514.6	MIL-STD-810G M514.6
Drop	MIL-STD-810G M516.6 5 ft, Free to concrete	MIL-STD-810G M516.6 5 ft, Free to concrete
Power		
Power Input	5V DC	5V DC
Battery	3.7V 5300mAh Li-Poly	3.7V 5300mAh Li-Poly
Adapter	100-240V/ 5V 3A Adapter	100-240V/ 5V 3A Adapter
Data Capture		
Camera	Front: 2MP Camera, Rear: 8MP Camera with LED auxiliary light with autofocus	Web: 8MP Camera, Rear: 13MP Camera with LED auxilliary light with autofocus
Barcode	Motorola SE4500 1D/2D Barcode Reader (Optional)	1D/2D Barcode Reader (Optional)
NFC	NFC (Read/Write, Peer to Peer mode)	NFC (Optional)
Certifications		
Safety	CE, FCC, CCC	CE, FCC, CCC

8" x86 Rugged Tablet

M900 Series

E24

"PORTABLE POWERFUL SOLUTION."

- 8" 1280 x 800 screen PCAP touchscreen
- Intel® Pentium® N4200
- Windows 10 IoT Enterprise

Built-in MSR/ Smart Card Reader (M900PT)
2MP webcam front camera
8MP rear camera with autofocus and LED light
USB 3.0 Type-A, USB 3.0 Type-C
D-sub for vehicle gateway connection
Wi-Fi, Bluetooth 5.0, GPS, GLONASS
IP65 waterproof and dustproof
MIL-STD-810G shock, vibration and drop resistance
Operating temperature -10°C to 50°C

Accessories

Standard				
AC Adapter	Power Cord	Battery		
Optional				
Vehicle Gateway	Vehicle Cradle	USB Expansion Cable	Battery Charger	Handstrap
Shoulder Strap	Carry Bag	Desk Dock		

Custom configuration

4G LTE

Barcode Reader

HF RFID Reader

EMV/MSR Reader

Micro SD Card Slot

Computrace

Application

Connected Truck

"CONNECTIVITY FOR VEHICLES ON THE ROAD."

Winmate developed a smart truck solution for a heavy-duty vehicle. Installed on a dashboard by vehicle cradle, the 8" rugged tablet M900P and custom designed vehicle gateway VG-100 now connect in-vehicle systems and allow status monitoring of a semi-truck in Europe.

8" x86 Rugged Tablet

Intel® Pentium® N4200

Model Name	8"	8"
	M900P	M900PT
Display		
Resolution	1280 x 800	1280 x 800
Panel Brightness	510 nits	510 nits
Contrast Ratio	800:1	800:1
Viewing angle	-85~85 (H) ; -85~85 (V)	-85~85 (H) ; -85~85 (V)
Touch	PCAP touchscreen	PCAP touchscreen
System		
Processor	Intel® Pentium® N4200 (2M Cache, up to 2.5 GHz)	Intel® Pentium® N4200 (2M Cache, up to 2.5 GHz)
Memory	4GB LPDDR4	4GB LPDDR4
Storage	64GB M.2 SSD (Up to 512GB)	64GB M.2 SSD (Up to 512GB)
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Wireless Communications		
WLAN	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac
Bluetooth	Bluetooth 5.0	Bluetooth 5.0
WWAN	Optional 4G LTE	Optional 4G LTE
GNSS	GPS, GLONASS	GPS, GLONASS
Audio		
Audio	2 x Built-in Mic, 2 x 1W Speaker	2 x Built-in Mic, 2 x 1W Speaker
Connectors		
Connectors	1 x USB 3.0 Type-C, 1 x USB 3.0 Type-A, 1 x Audio Combo Conn. (Mic in/Line Out), 1 x Micro SD Card Slot, 1 x Micro SIM Card Slot	1 x USB 3.0 Type-C, 1 x USB 3.0 Type-A, 1 x Audio Combo connector (Mic in or Line Out), 1 x Power Jack, 1 x Micro SD Card Slot
User Controls		
Buttons	1 x Power Button, 1 x Menu/Home key, 3 x Programmable Function Key	1 x Power Button, 1 x Menu/Home key, 3 x Programmable Function Key
LED indicator	Power, Battery, HDD Access, RF	Power, Battery, HDD Access, RF
Mechanical		
Dimensions	225 x 148 x 20.5 mm (8.85 x 5.82 x 0.80 inches)	225 x 148 x 20.5 mm (10 x 7.76 x 0.8 inches)
Net Weight	0.9 kg (2 lbs) with standard battery	0.9 kg (2 lbs) with standard battery
Environment		
Operating Temp.	-20°C to 60°C (AC mode), -10°C to 50°C (Battery mode)	-20°C to 60°C (AC mode), -10°C to 50°C (Battery mode)
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
IP Rating	IP65	IP65
Shock	MIL-STD-810G Method 516.6 Procedure I	MIL-STD-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I	MIL-STD-810G Method 514.6 Procedure I
Drop	MIL-STD-810G Method 516.6, 5 ft to concrete	MIL-STD-810G Method 516.6, 5 ft to concrete
Power		
Power Input	19V DC, 3.42A	19V DC, 3.42A
Battery	7.6V 4200mAh Li-Polymer Battery (2S2P)	7.6V 4200mAh Li-Polymer Battery (2S2P)
Adapter	100~240V, 50-60Hz	100~240V, 50-60Hz
Data Capture		
Camera	Front: 2MP Webcam, Rear: 8MP with LED flash	Front: 2MP Webcam, Rear: 8MP with LED flash
Integrated	1D/2D Barcode Reader (Optional) HF RFID Reader (Optional) LF RFID Reader (Optional)	1D/2D Barcode Reader (Optional)
EMV/ MSR Card Reader	-	Built-in MSR/ Smart Card Reader ISO 781017811
Certifications		
Safety	CE, FCC, IC, UL 60950, E-mark	CE, FCC, IC, UL 60950, E-mark

8" x86 Rugged Tablet

M101 Series with QWERTY Keypad

"HYBRID DESIGN"

- 8" 1280 x 800 WXGA with PCAP touchscreen
- Intel® Celeron® N2930 (M101BK)
- Intel® Pentium® N4200 (M101PK)
- Windows 10 IoT Enterprise
- With full QWERTY keypad

5MP rear camera
USB 3.0
Micro HDMI
Micro SD Card Slot
4GB DDR3L-1600, 64GB m.2 SATA SSD
Wi-Fi, Bluetooth 4.0, GPS, Galileo
Up to 6 hours battery operating time
Battery hot-swap support
IP65 waterproof and dustproof
MIL-STD-810G shock, vibration and drop resistance
Operating temperature -10°C to 50°C

Accessories

Standard				
Adapter & Power Cord	Capacitive Stylus	Standard Battery		
Optional				
Desk Dock	Vehicle Dock (Without VGA output)	Battery Charger	High Capacity Battery	Hand Strap
UHF RFID Reader	Smart Card Reader	LAN Cable	Carry Bag	Micro HDMI Cable
RS-232 Cable	Vehicle Charger	Shoulder Strap		

Custom configuration

Barcode Reader

HF RFID Reader

Micro SD Card Slot

High Capacity Battery 12 hr

4G LTE

Application

Diagnostics Tool at Workshop

"SIMPLIFIES CAR INSPECTION."

Portable adjustment and measurement device for wheel alignment system now considerably simplifies the regular car inspection with special steering wheel mount and desk docking station.

8" x86 Rugged Tablet

Intel® Celeron® N2930
Intel® Pentium® N4200

NEW

Q2, 2020

Model Name	8" M101BK	8" M101PK
Display		
Resolution	1280 x 800	1280 x 800
Panel Brightness	500 nits	500 nits
Contrast Ratio	800:1 (Typ.)	800:1 (Typ.)
Viewing angle	-88~88 (H) ; -88~88 (V)	-88~88 (H) ; -88~88 (V)
Touch	PCAP touchscreen	PCAP touchscreen (10-point)
System		
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Pentium® N4200 (2M Cache, up to 2.5 GHz)
Memory	4GB SODIMM DDR3L-1600	4GB LPDDR4 (Up to 8GB)
Storage	64GB SSD	128GB SSD (Up to 512GB)
OS	Windows 10 IoT Enterprise Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise
Wireless Communications		
WLAN	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac
Bluetooth	Bluetooth 4.0 Dual Mode	Bluetooth 5.0
WWAN	4G LTE module (Optional)	4G LTE module (Optional)
GPS	GPS, Galileo	GPS, GLONASS
Connectors		
Audio	2 x Stereo Speaker (80 db output)	2 x Stereo Speaker (80 db output)
Connectors	1 x 30-pin Combo Conn for Giga-LAN or RS232, 1 x USB 3.0, 1 x Power Jack, 1 x Micro SD Card Slot, 1 x Micro HDMI, 1 x 3.5mm Audio Combo Conn. (Mic in or Line Out), 1 x Expansion Connector for USB 2.0 / Full RS232 (Optional)	1 x Micro HDMI, 1 x Micro SD Slot, 1 x USB 3.0 (Type-A), 1 x USB 3.0 (Type-C), 1 x Line Out/ Mic in, 1 x DC Jack, 1 x Micro SIM Card Slot, 1 x Optional Exp. Port (USB 2.0 + RS232), 1 x Docking connector
User Controls		
Buttons	Physical Keyboard: ISO/IEC 9995-3 QWERTY Keypad, IP65 water and dust proof, with LED backlight (Keypad dimensions : min. 10x10mm) Physical Buttons: 1 x Power, 10 x Function Keys	Physical Keyboard: ISO/IEC 9995-3 QWERTY Keypad, IP65 water and dust proof, with LED backlight (Keypad dimensions : min. 10x10mm) Physical Buttons: 1 x Power, 10 x Function Keys
LED Indicator	Power, Battery, HDD, RF	Power, Battery, HDD, RF
Mechanical		
Dimensions	271.8 x 198.2 x 22 mm (10.7 x 7.80 x 0.87 inches)	271.8 x 198.2 x 22 mm (10.7 x 7.80 x 0.87 inches)
Net Weight	1.35 kg (2.97 lbs)	1.35 kg (2.97 lbs)
Environment		
Operating Temp.	AC Mode: -20°C to 60°C (-4°F to 140°F), Battery Mode: -10°C to 50°C (32°F to 122°F),	AC Mode: -20°C to 60°C (-4°F to 140°F), Battery Mode: -10°C to 50°C (32°F to 122°F),
Humidity	10% to 90% (Non-condensing, RH), MIL-STD 810G Method 507.5 Procedures I	10% to 90% (Non-condensing, RH), MIL-STD 810G Method 507.5 Procedures I
IP Rating	IP65 certified, dustproof and waterproof	IP65 certified, dustproof and waterproof
Shock	MIL-STD-810G Method 516.6 Procedure I	MIL-STD-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I	MIL-STD-810G Method 514.6 Procedure I
Drop	MIL-STD-810G Method 516.6 Procedure IV, 4 ft to concrete	MIL-STD-810G Method 516.6 Procedure IV, 4 ft to concrete
Power		
Power Input	19V DC	19V DC
Battery	7.4V typ. 5140mAh Li-Polymer Battery (2S1P)	7.7V typ. 5900mAh Li-Polymer Battery
AC Adapter	100~240V, 50-60Hz	100~240V, 50-60Hz
Data Capture		
Camera	Rear: 5MP auto-focus camera with LED flash	Rear: 8MP auto-focus camera with LED flash
Certifications		
Safety	CE, FCC	CE, FCC

8" Arm Rugged Tablet

M900 Series

"PORTABLE POWERFUL SOLUTION."

- 8" 1280 x 800 PCAP touchscreen
- Qualcomm® Snapdragon™ 660 (M900Q8)
- Arm Cortex-A53 (M900M9)
- Android 9.0

8MP front camera
13MP rear camera
USB 2.0 (Type-A), USB 3.0 (Type-C)
D-Sub for Vehicle Gateway
Wi-Fi, Bluetooth, GPS, AGPS
IP65 waterproof and dustproof
MIL-STD-810G shock, vibration and drop resistance
Operating temperature -20°C to 60°C

Accessories

Standard				
AC Adapter	Power Cord	Battery	Capacitive Stylus	
Optional				
Vehicle Gateway	Vehicle Cradle	USB Expansion Cable	Battery Charger	Handstrap
Shoulder Strap	Carry Bag	Desk Dock		

Custom configuration

4G LTE

Barcode Reader

EMV/MSR Reader

Application

Fire and Rescue Service

"ROBUST COMMUNICATION DEVICE FOR MISSION-CRITICAL ENVIRONMENTS."

A fire department uses the device as a reliable computing and navigation system to communicate with others in real-time while simplifying file transfer and management.

8" Arm Rugged Tablet

Qualcomm® Snapdragon™ 660
Arm Cortex-A53

NEW

Q2, 2020

NEW

Q2, 2020

Model Name	8"	8"
	M900Q8	M900M9
Display		
Resolution	1280 x 800	1280 x 800
Panel Brightness	510 nits	510 nits
Contrast Ratio	800:1	800:1
Viewing angle	-85~85 (H) ; -85~85 (V)	-85~85 (H) ; -85~85 (V)
Touch	PCAP touchscreen	PCAP touchscreen
System		
Processor	Qualcomm® Snapdragon™ 660 (Octa-core up to 2.2 GHz)	Arm Cortex-A53 (Octa-core 2.2 GHz)
Memory	3GB	3GB
Storage	32GB eMMC	32GB eMMC
OS	Android 9.0	Android 9.0
Wireless Communications		
WLAN	802.11 a/b/g/n/ac WiFi	802.11 a/b/g/n/ac WiFi
Bluetooth	Bluetooth 5.0	Bluetooth 5.0
WWAN	Optional 4G LTE	Optional 4G LTE
GNSS	GPS, AGPS	GPS, AGPS
Audio		
Audio	Microphone built in 1 Watt speaker	Microphone built in 2 x 1 Watt speaker
Connectors		
Connectors	1 x 19-pin docking connector, 1 x Power Jack, 1 x USB2.0 (Type-A), 1 x USB3.0 (Type-C), 1 x Audio Combo connector (Mic in or Line Out), 1 x D-Sub for Vehicle Gateway	1 x 19-pin docking connector, 1 x Power Jack, 1 x Micro USB, 1 x Audio Combo connector (Mic in or Line Out), 1 x D-Sub for Vehicle Gateway
User Controls		
Buttons	1 x Power, 1 x Home, 3 x function key (Programmable function key configured by Hottab Utility)	1 x Power, 1 x Home, 3 x function key (Programmable function key configured by Hottab Utility)
LED indicator	Power, Charging Indicator	Power, Charging Indicator
Mechanical		
Dimensions	225 x 148 x 20.5 mm (10 x 7.76 x 0.8 inches)	225 x 148 x 20.5 mm (10 x 7.76 x 0.8 inches)
Net Weight	1 kg with battery	1 kg with battery
Environment		
Operating Temp.	-20°C to 60°C (AC mode), -10°C to 50°C (Battery mode)	-20°C to 60°C (AC mode), -10°C to 50°C (Battery mode)
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
IP Rating	IP65 certified, dustproof and waterproof	IP65 certified, dustproof and waterproof
Shock	MIL-STD-810G Method 516.6 Procedure I	MIL-STD-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I	MIL-STD-810G Method 514.6 Procedure I
Drop	MIL-STD-810G Method 516.6 Procedure I, 5 ft to concrete	MIL-STD-810G Method 516.6 Procedure I, 5 ft to concrete
Power		
Power Input	19V DC, 3.79A	19V DC, 3.79A
Battery	7.6V, typ. 4200mAh Li Polymer Battery (2S2P)	7.6V, typ. 4200mAh Li Polymer Battery (2S2P)
Adapter	100-240V, 50~60Hz	100-240V, 50~60Hz
Data Capture		
Camera	Front Camera: 8MP, Rear Camera: 13MP	Front Camera: 8MP, Rear Camera: 13MP
Integrated	1D/2D Barcode Scanner (Optional) NFC Reader	1D/2D Barcode Scanner (Optional) NFC Reader
EMV/ MSR Card Reader	EMV/ MSR Card Reader(Optional)	EMV/ MSR Card Reader(Optional)
Certifications		
Safety	CE,FCC	CE,FCC

10.1" x86 Rugged Tablet

M101B Series

Custom configuration

- 4G LTE
- AR & AG Screen
- Micro SD Card Slot
- Barcode Reader
- HF RFID Reader
- Expansion Port
- Micro HDMI
- High Capacity Battery 16hr
- Smart Card Reader

Application

Ambulance Vehicle Mount Solution

"FAST ACCESS TO PATIENT INFORMATION."

The M101B rugged tablet customized with LTE module and smart card reader help ECR professionals to access patient information on-the-go. The solution includes a vehicle cradle for in-vehicle mounting and charging. Winmate rugged mobile solution improve the effectiveness of ambulance and save lives.

"SUNLIGHT READABLE. ROBUST. RELIABLE."

- 10.1" 1920 x 1200 PCAP touchscreen (M101B)
- 10.1" 1280 x 800 PCAP touchscreen (M101BL)
- Intel® Celeron® N2930
- Windows 10/8/7

2MP webcam front camera
5MP rear camera with autofocus and LED flash
Glove/ Rain/ Stylus mode, support active pen
Wi-Fi, Bluetooth 4.0, GPS
USB3.0, 30-pin Combo conn (Giga-LAN or RS-232)
IP65 waterproof and dustproof
MIL-STD-810G shock, vibration and drop resistance
Operating temperature -10°C to 50°C

Accessories

Standard				
Adapter and Power Cord	Capacitive Stylus	Standard Battery		
Optional				
Desk Dock	Vehicle Dock (Without VGA output)	Vehicle Cradle	Battery Charger	Smart Card Reader
High Capacity Battery	Hand Strap	UHF RFID Reader	VESA Mount Kit	Shoulder Strap
Carry Bag	Micro HDMI Cable	Vehicle Charger	LAN Cable	RS-232 Cable

10.1" x86 Rugged Tablet

Intel® Celeron® N2930

Model Name	10.1" M101B	10.1" M101BL
Display		
Resolution	1920 x 1200	1280 x 800
Panel Brightness	700 nits	350 nits
Contrast Ratio	800:1 (Typ.)	800:1 (Typ.)
Viewing angle	-89~89 (H) ; -89~89 (V)	-85~85 (H) ; -85~85 (V)
Touch	PCAP touchscreen	PCAP touchscreen
System		
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
Memory	4GB SODIMM DDR3L-1600 (Up to 8GB)	4GB SODIMM DDR3L-1600 (Up to 8GB)
Storage	64GB mSATA SSD (Up to 256GB)	64GB mSATA SSD (Up to 256GB)
OS	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro Windows Embedded Standard 7 Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro Windows 7 Pro for Embedded System
Wireless Communications		
WLAN	802.11 a/b/g/n	802.11 a/b/g/n
Bluetooth	Bluetooth 4.0 + Class I	Bluetooth 4.0 + Class I
WWAN	Optional 4G	Optional 4G
GNSS	GPS	GPS
Connectors		
Connectors	1 x Micro HDMI, 1 x Giga-LAN or RS-232, 1 x USB3.0, 1 x Mic in/Line Out) 1 x Power Jack, 1 x Micro SD Slot	1 x Micro HDMI, 1 x Giga-LAN or RS-232, 1 x USB3.0, 1 x (Mic in/Line Out), 1 x Power Jack, 1 x Micro SD Slot
Audio		
Audio	1 x Built-in Mic, 2 x 1W Speaker	1 x Built-in Mic, 2 x 1W Speaker
User Controls		
Buttons	1 x Power, 1 x Menu/Home, 2 x Programmable Function Keys, 1 x Volume up, 1 x Volume down	1 x Power, 1 x Menu/Home, 2 x Programmable Function Keys, 1 x Volume up, 1 x Volume down
LED Indicator	Power, Battery, HDD Access, RF	Power, Battery, HDD Access, RF
Mechanical		
Dimensions	271.8 x 197.2 x 19 mm	271.8 x 197.2 x 19 mm (10.7 x 7.76 x 0.75 inches)
Net Weight	1.2 kg (2.7 lbs)	1.2 kg (2.7 lbs)
Environment		
Operating Temp.	-20°C to 60°C (AC mode), -10°C to 50°C (Battery mode)	-20°C to 60°C (AC mode), -10°C to 50°C (Battery mode)
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
IP Rating	IP65	IP65
Shock	MIL-STD-810G Method 516.6 Procedure I	MIL-STD-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I	MIL-STD-810G Method 514.6 Procedure I
Drop	MIL-STD-810G Method 516.6, 4 ft to concrete	MIL-STD-810G Method 516.6, 4 ft to concrete
Power		
Power Input	12~19V DC	12~19V DC
Battery	7.4V, typ. 5140mAh Li-Polymer Battery (2S1P) 7.4V, typ. 10280mAh Li-Polymer Battery (2S2P, Optional)	7.4V, typ. 5140mAh Li-Polymer Battery (2S1P) 7.4V, typ. 10280mAh Li-Polymer Battery (2S2P, Optional)
AC Adapter	100~240V, 50-60Hz, 19V DC	100~240V, 50-60Hz, 19V DC
Data Capture		
Camera	Front: 2MP Webcam, Rear: 5MP with LED flash	Front: 2MP Webcam, Rear: 5MP with LED flash
Integrated	1D/2D Barcode Reader (Optional) HF/UHF RFID Reader (Optional)	1D/2D Barcode Reader (Optional) HF/UHF RFID Reader (Optional)
Add-on Module	Built-in Smart Card Reader (Optional)	-
Certifications		
Safety	CE, FCC, IC, UL 60950	CE, FCC, IC, UL 60950

10.1" x86 Rugged Tablet

M101P/S Series

Custom configuration

- 4G LTE
- AR & AG Screen
- Micro SD Card Slot
- Barcode Reader
- HF RFID Reader
- Expansion Port
- Micro HDMI Port
- High Capacity Battery 16hr

Application

Enterprise Mobility Solution

"LONG BATTERY LIFE AND VARIOUS DATA CAPTURE OPTIONS."

The 10.1" tablet featured customization in logo, housing, and packing. Users can use the mobile tablet to collect equipment information during daily facilities check. The Windows-based platform makes IT control easier.

"ROBUST TABLET TO WITHSTAND INDUSTRIAL USE."

- 10.1" 1920 x 1200 PCAP touchscreen
- Intel® Pentium® N4200 (M101P)
- Intel® Core™ i5-7200U (M101S)
- Windows 10 IoT Enterprise

2MP webcam front camera
8MP rear camera with autofocus with LED flash
Glove/ Rain/ Stylus mode, support active pen
Wi-Fi, Bluetooth 5.0, GPS, GLONASS
USB 3.0 Type-A, USB 3.0 Type-C
IP65 waterproof and dustproof
MIL-STD-810G shock, vibration and drop resistance
Operating temperature -10°C to 50°C
Sunlight readable with anti-glare solution

Accessories

Standard				
Adapter and Power Cord	Capacitive Stylus	Standard Battery		
Optional				
Smart Card Reader (M101P)	Vehicle Dock (Without VGA output)	Vehicle Cradle	Battery Charger	Desk Dock
High Capacity Battery	Hand Strap	UHF RFID Reader	VESA Mount Kit	Shoulder Strap
Carry Bag	Micro HDMI Cable	Vehicle Charger		

10.1" x86 Rugged Tablet

Intel® Pentium® N4200
Intel® Core™ i5-7200U

Model Name	10.1" M101P	10.1" M101S
Display		
Resolution	1920 x 1200	1920 x 1200
Panel Brightness	800 nits	800 nits
Contrast Ratio	800:1 (Typ.)	800:1 (Typ.)
Viewing angle	-85~85 (H) ; -85~85 (V)	-85~85 (H) ; -85~85 (V)
Touch	PCAP touchscreen	PCAP touchscreen
System		
Processor	Intel® Pentium® N4200 (2M Cache, up to 2.5 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
Memory	4GB LPDDR4 (Up to 8GB)	4GB DDR4 SDRAM (Up to 16GB)
Storage	128GB SSD (Up to 512GB)	128GB SSD (Up to 512GB)
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Wireless Communications		
WLAN	802.11 a/b/g/n/ac WiFi	802.11 a/b/g/n/ac WiFi
Bluetooth	Bluetooth 5.0	Bluetooth 5.0
WWAN	Optional 4G LTE	Optional 4G LTE
GNSS	GPS, GLONASS	GPS, GLONASS
Connectors		
Connectors	1 x Micro HDMI, 1 x USB 3.0 (Type-A), 1 x USB 3.0 (Type-C), 1 x Audio Combo connector (Mic in or Line Out), 1 x Power jack, 1 x Expansion connector for USB 2.0 / Full RS232(Optional), 1 x Micro SD Card Slot, 1 x Micro SIM Card Slot, 1 x Mini PCIe for WWAN Module	1 x Micro HDMI, 1 x USB 3.0 (Type-A), 1 x USB 3.0 (Type-C), 1 x Audio Combo Conn. (Mic in or Line Out), 1 x Power Jack, 1 x Micro SD Card Slot, 1 x Micro SIM Card Slot, 1 x Mini PCIe for WWAN Module,
Audio		
Audio	2 x Built-in Mic with Noise Cancellation, 2 x 1W Speaker	2 x Built-in Digital Mic with Noise Cancellation, 2 x 1W Speaker
User Controls		
Buttons	1 x Power, 1 x Menu/ Home, 2 x Programmable Function Keys, 2 x Volume or Panel Brightness	1 x Power, 1 x Menu/Home, 2 x Programmable Function Keys, 2 x Volume or Panel Brightness
LED Indicator	Power, Battery, HDD, RF	Power, Battery, HDD, RF
Mechanical		
Dimensions	271.9 x 198.3 x 19.5 mm	271.8 x 197.2 x 21 mm
Net Weight	1.2 kg (2.65 lbs)	1.25 kg (2.75 lbs)
Environment		
Operating Temp.	-20°C to 60°C (AC mode), -10°C to 50°C (Battery mode)	-20°C to 60°C (AC mode), -10°C to 50°C (Battery mode)
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
IP Rating	IP65	IP65
Shock	MIL-STD-810G Method 516.6 Procedure I	MIL-STD-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I	MIL-STD-810G Method 514.6 Procedure I
Drop	MIL-STD-810G Method 516.6, 4 ft to concrete	MIL-STD-810G Method 516.6, 4 ft to concrete
Power		
Power Input	12~19V DC	12~19V DC
Battery	7.7V, typ. 5900mAh Li-Polymer Battery (2S1P) 7.4V, typ. 10280mAh Li-Polymer Battery (2S2P, Optional)	7.7V, typ. 5900mAh Li-Polymer Battery (2S1P) 7.4V, typ. 10280mAh Li-Polymer Battery (2S2P, Optional)
AC Adapter	100~240V, 50-60Hz/19V DC	100~240V, 50-60Hz/19V DC
Data Capture		
Camera	Front: 2MP, Rear: 8MP with LED flash	Front: 2MP, Rear: 8MP with LED flash
Integrated	Optional 1D/2D Barcode Reader Optional HF RFID Reader	Optional 1D/2D Barcode Reader Optional HF RFID Reader
Add-on Module	Optional add-on UHF RFID Reader or SmartCard Reader	-
Certifications		
Safety	CE, FCC	CE, FCC

10.1" Arm Rugged Tablet

M101RK/M/Q Series

"RUGGED ENOUGH TO WITHSTAND WEAR & TEAR."

- 10.1" 1920 x 1200 PCAP touchscreen (M101RK, M101Q8)
- 10.1" 1280 x 800 PCAP touchscreen (M101M8)
- Arm Cortex-A72 + Arm Cortex-A53 (M101RK)
- Arm Cortex-A53 (M101M8)
- Qualcomm® Snapdragon™ 660 (M101Q8)

2MP front camera; 8MP rear camera with autofocus and LED flash (M101RK, M101M8)
8MP front camera; 13MP rear camera with autofocus and LED flash (M101Q8)
Wi-Fi, GPS, NFC, Bluetooth
4G LTE
USB OTG
IP65 waterproof and dustproof
MIL-STD-810G shock, vibration and drop resistance
Operating temperature -20°C to 60°C (M101RK, M101M8)

Accessories

Standard				
Adapter and Power Cord	Capacitive Stylus	Standard Battery		
Optional				
Desk Dock	Vehicle Dock	Vehicle Cradle	Battery Charger	Hand Strap
VESA Mount Kit	Carry Bag			

Custom configuration

Barcode Reader

AR & AG Screen

Additional Storage

4G LTE

Micro SD Card Slot

Battery Hotswap

Application

Bingo Games Tablet

"TOUGH ENOUGH TO WITHSTAND REGULAR KNOCKS & DROPS."

A customer needed a tablet display to be single point with less sensitivity. Winmate had the solution. This 10 .1" tablet not only meets the demand but is also rugged and durable enough to withstand regular drops.

10.1" Arm Rugged Tablet

Arm Cortex-A72 + Arm Cortex-A53
Arm Cortex-A53
Qualcomm® Snapdragon™ 660

NEW

Q2, 2020

Model Name	10.1" M101RK	10.1" M101M8	10.1" M101Q8
Display			
Resolution	1920 x 1200	1280 x 800	1290 x 1200
Panel Brightness	800 nits	400 nits	800 nits
Contrast Ratio	800:1 (Typ.)	1000:1 (Typ.)	800:1 (Typ.)
Viewing angle	-85~85 (H) ; -85~85 (V)	-85~85 (H) ; -85~85 (V)	-85~85 (H) ; -85~85 (V)
Touch	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen
System			
Processor	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)	Arm Cortex-A53 (Octa-core 1.3 GHz)	Qualcomm® Snapdragon™ 660 (Octa-core up to 2.2 GHz)
Memory	2GB	2GB LPDDR3	3GB
Storage	16GB eMMC	16GB eMMC	32GB eMMC
OS	Android 7.1	Android 7.0	Android 9.0
Wireless Communications			
WLAN	802.11 a/b/g/n/ac	802.11 a/b/g/n	802.11 a/b/g/n/ac Wi-Fi
Bluetooth	Bluetooth 4.2	Bluetooth 4.1	Bluetooth 5.0
WWAN	Optional 3G/4G LTE	Optional 3G/4G LTE	Optional 3G/4G LTE
GPS	GPS / AGPS	GPS / AGPS	GPS / AGPS
Connectors			
Connectors	1 x Micro HDMI, 1 x USB 3.0 Type-C (OTG), 1 x USB 3.0 Type-A, 1 x Power Jack, 1 x Micro SD Slot, 1 x Audio Combo Conn. (Mic in/Line Out),	1 x USB OTG, 1 x Power Jack, 1 x Micro SD Card Slot, 1 x Audio Combo Conn. (Mic in/Line Out),	1 x USB3.0 Type-C (OTG), 1 x USB2.0 Type-A, 1 x Power Jack, 1 x Micro SD Card Slot, 1 x Micro SIM Card Slot
Audio			
Audio	1 x Built-in Mic, 2 x Built-in 1W Speaker	1 x Built-in Mic, 2 x Built-in 1W Speaker	2 x Digital Mic, 2 x 1w Sperker
User Controls			
Buttons	Power, Home, Back, Menu, Volume up and down	Power, Home, Back, Menu, Volume up and down	Power, Home, Back, Menu, Volume up and down
LED Indicator	Status Indicator	Status Indicator	Status Indicator
Mechanical			
Dimensions	271.9 x 198.2 x 19.5 mm	271.8 x 197.2 x 19 mm	271.9 x 198.2 x 19.5 mm
Net Weight	0.99 kg	1 kg	0.99 kg
Environment			
Operating Temp.	-20°C to 60°C (AC mode), -10°C to 50°C (Battery mode)	-20°C to 60°C (AC mode), -10°C to 50°C (Battery mode)	-10°C to 50°C (AC mode), -10°C to 50°C (Battery mode)
Humidity	10% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
IP Rating	IP65	IP65	IP65
Shock	MIL-STD-810G Method 516.6 Procedure I	MIL-STD-810G Method 516.6 Procedure I	MIL-STD-810G M516.6
Vibration	MIL-STD-810G Method 514.6 Procedure I	MIL-STD-810G Method 514.6 Procedure I	MIL-STD-810G M514.6
Drop	MIL-STD-810G Method 516.6, 4 ft to concrete	MIL-STD-810G Method 516.6, 4 ft to concrete	MIL-STD-810G Method 516.6 Procedure I, 4 ft to concrete
Power			
Power Input	19V DC	12~19V DC	19V DC
Battery	7.4V, typ. 5140mAh Li-Polymer Battery (2S1P) (Optional hot-swap battery)	7.4V, typ. 5140mAh Li-Polymer Battery (2S1P) (Optional hot-swap battery)	7.4V, typ. 5140mAh Li-ion Battery (2S1P) (Optional hot-swap battery)
Adapter	110-240 AC to 19V DC out	100~240V/ 12V DC 3A	100~240 AC to 19V DC out
Data Capture			
Camera	Front: 2MP with built-in mic, Rear: 8MP with autofocus and LED flash	Front: 2MP with built-in mic, Rear: 8MP with autofocus and LED flash	Front: 8MP with built-in mic, Rear: 13MP with autofocus and LED flash
Barcode	Optional 1D/2D Barcode Reader	Optional 2D Barcode Reader	Optional 1D/2D Barcode Reader
NFC	Optional NFC Reader	Built in NFC Reader	Integrated NFC Module
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

11.6" x86 Rugged Tablet

M116P/K Series

"COMBINATION OF RUGGEDNESS AND PERFORMANCE."

- 11.6" 1920 x 1080 PCAP touchscreen
- Intel® Pentium® N4200 (M116P)
- Intel® Core™ i5-7200U (M116K)
- Windows 10 IoT Enterprise

2MP front camera
8MP rear camera with autofocus and LED light
USB 3.0 (Type-A), USB 3.0 (Type-C)
Micro HDMI
RJ45 for Ethernet
Hot-swappable battery
Wi-Fi, Bluetooth, GPS, GLONASS
IP65 waterproof and dustproof
MIL-STD-810G shock, vibration and drop resistant
Operating temperature -20°C to 60°C

Accessories

Standard

Adapter and Power Cord	Capacitive Stylus	Standard Battery

Optional

Desk Dock	Vehicle Dock	Vehicle Charger	Battery Charger	Shoulder Strap
Smart Card	UHF RFID Reader	High Capacity Battery	Hand Strap	VESA Mount Kit
Carry BagReader	Micro HDMI Cable	USB-C to Ethernet Adapter	USB-C to RS232 Adapter	

Custom configuration

4G LTE
AG Screen
Micro SD Card Slot
Barcode Reader
HF RFID Reader
Expansion Port
Micro HDMI
High Capacity Battery 16hr
Smart Card Reader

Application

Warehouse Management

"TRUSTWORTHY PERFORMANCE ACROSS THE LOGISTICS ECOSYSTEM"

Purpose-built for warehouse, transportation, and field service applications, the M116 series ships with excellent performance, multiple wireless connectivity options and data capture modules for extraordinary performance. It permits all day use thanks to the hot-swappable battery design.

11.6" x86 Rugged Tablet

Intel® Pentium® N4200
Intel® Core™ i5-7200U

NEW

NEW

Model Name	11.6" M116P	11.6" M116K
Display		
Resolution	1920 x 1080 Full HD	1920 x 1080 Full HD
Panel Brightness	850 nits with direct optical bonding for sunlight readability	850 nits with direct optical bonding for sunlight readability
Contrast Ratio	1000:1 (Typ.)	1000:1 (Typ.)
Viewing angle	-89~89 (H) ; -89~89 (V)	-89~89 (H) ; -89~89 (V)
Touch	PCAP touchscreen	PCAP touchscreen
System		
Processor	Intel® Pentium® N4200 (2M Cache, up to 2.5 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
Memory	4GB LPDDR4 RAM (Up to 8GB)	4GB DDR4 SDRAM (Up to 16GB)
Storage	128GB SSD (Options up to 512GB) Additional storage available with micro SDXC card slot	128GB SSD (Options up to 512GB) Additional storage available with micro SDXC card slot
Graphics	Intel® HD Graphics 504	Intel® HD Graphics 620
OS	Windows 10 IoT Enterprise (64 bit)	Windows 10 IoT Enterprise (64 bit)
Sensors	Light sensor/ g-sensor / Gyro / E-compass	Light sensor/ g-sensor / Gyro / E-compass
Wireless Communications		
WLAN	802.11 a/b/g/n/ac WiFi	802.11 a/b/g/n/ac WiFi
Bluetooth	Bluetooth 5.0	Bluetooth 5.0
WWAN	Optional 4G LTE	Optional 4G LTE
GNSS	GPS, GLONASS	GPS, GLONASS
Connectors		
Connectors	1 x 19-pin docking connector, 1 x micro HDMI, 1 x USB 3.0 (Type-A), 1 x USB 3.0 (Type-C), 1 x Power Jack, 1 x Micro SDXC slot, 1 x Micro SIM Card Slot, 1 x Audio combo connector (Mic in or Line Out), 1 x RJ45 10/100/1000 (Optional), 1 x Expansion connector for USB 2.0/ Full RS232 (Optional), 1 x Mini PCIe for WWAN Module	1 x 19-pin docking connector, 1 x micro HDMI, 1 x USB 3.0 (Type-A), 1 x USB 3.0 (Type-C), 1 x Power Jack, 1 x Micro SDXC slot, 1 x Micro SIM Card Slot, 1 x Audio combo connector (Mic in or Line Out), 1 x RJ45 10/100/1000 (Optional), 1 x Expansion connector for USB 2.0/ Full RS232 (Optional), 1 x Mini PCIe for WWAN Module
Audio		
Audio	Built-in dual digital mic with noise cancellation, 2 x 1 watt front-facing speakers	Built-in dual digital mic with noise cancellation, 2 x 1 watt front-facing speakers
User Controls		
Physical Buttons	1 x Power; 3 x function keys	1 x Power; 3 x function keys
LED Indicator	Power, Battery, HDD, RF	Power, Battery, HDD, RF
Mechanical		
Dimensions	300.67 x 201.97 x 22.5 mm	300.67 x 201.97 x 22.5 mm
Net Weight	1.35 kg	1.4 kg
Environment		
Operating Temp.	-20°C to 60°C (AC mode), -10°C to 50°C (Battery mode)	-20°C to 60°C (AC mode), -10°C to 50°C (Battery mode)
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
IP Rating	IP65 certified, dustproof and waterproof	IP65 certified, dustproof and waterproof
Shock	MIL-STD-810G Method 516.6 Procedure I	MIL-STD-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I	MIL-STD-810G Method 514.6 Procedure I
Drop	MIL-STD-810G Method 516.6, 4 ft to concrete	MIL-STD-810G Method 516.6, 4 ft to concrete
Power		
Power Input	19V DC	19V DC
Battery	Hot-swappable 7.7V typ. 5900mAh Li-Polymer Battery (2S1P) Optional 7.4V, typ. 10280mAh Li-Polymer Battery (2S2P)	Hot-swappable 7.7V typ. 5900mAh Li-Polymer Battery (2S1P) Optional 7.4V, typ. 10280mAh Li-Polymer Battery (2S2P)
AC Adapter	100-240V, 50-60Hz (19V DC)	100-240V, 50-60Hz (19V DC)
Data Capture		
Camera	Front: 2MP front camera Rear: 8MP rear camera with autofocus and LED light	Front: 2MP front camera Rear: 8MP rear camera with autofocus and LED light
Integrated	Optional 1D/2D Barcode Reader Optional HF RFID reader 13.56 MHz Optional Smart Card Reader	Optional 1D/2D Barcode Reader Optional HF RFID reader 13.56 MHz
Add-on Module	UHD RFID	Optional Smart Card Reader Optional UHD RFID
Certifications		
Safety	CE, FCC	CE, FCC

ULTRA-RUGGED TABLET

Ultra-Rugged Tablet

Overview

With our increased reliance on computers monitoring car sensors and control systems, the entire automotive system must be designed to be safety-critical to ensure the safety of the driver, passengers, pedestrians and other vehicles. To improve the quality and reduce errors in these systems, automotive OEMs and suppliers require good diagnostic tools to detect and discover any faults that appear in automotive systems.

Our ultra-rugged tablets include:

- The latest Windows® operating system
- Robust wireless communications
- Carry-around handle with rubber for easy grip

Winmate ultra-rugged tablets are designed to be carried around workshops and inspection stations with easy grip handles and sturdy kickstands. The large sunlight readable screen helps to ensure the right depiction of every diagram and spreadsheet. With waterproof, dustproof protection and designed to be ultra-reliable, Winmate's ultra-rugged tablets help you finish inspection tasks faster than ever in any condition.

Technology

- **Ruggedness –** Apart from the magnesium aluminum housing with protective rubber, these ultra-rugged tablets are constructed with IP54/65 sealing. Meanwhile, they are MIL-STD-810G certified for shock, drop and vibration tolerance to withstand the harshest of environments and frequent drops, especially in dusty automotive manufacturing plants and vehicle diagnostic workshops.

- **Adjustable kickstand/handle –** Devices remaining handy and easy to use are essential for efficient workshop use. The M133K comes with an integrated kickstand while other ultra-rugged members can be customized with a kickstand/handle to allow for easy and variable positioning on any surface.

Product Guide - Ultra-Rugged Tablet

Our product guide helps you to navigate and find the right product from our excessive product line.

x86 Ultra-Rugged Tablet			
			
R08IH8M-RTU1GP/ R08IK8M-RTU1GP	R08IP8M-RTU1GP	R10IK8M-RTT2GP	M133 Series
p.49	p.51	p.53	p.57

8.4" x86 Ultra-Rugged Tablet

Intel Core i5 Series

"PORTABLE POWERFUL SOLUTION."

- 8.4" anti-scratch resistive touchscreen
- Intel® Core™ i5-5250U (R08IH8M-RTU1GP)
- Intel® Core™ i5-7200U (R08IK8M-RTU1GP)
- Windows 10/8/7 (R08IH8M-RTU1GP)
- Windows 10 IoT Enterprise (R08IK8M-RTU1GP)

Easy-to-carry handle bar
USB 3.0
RS232, RJ45 for Ethernet
Wi-Fi, Bluetooth, GPS
IP54 waterproof and dustproof
MIL-STD-810G shock, vibration and drop resistance
Operating temperature -20°C to 60°C

Accessories

Standard

Multi-functional Desktop Docking	Adjustable Kickstand	Vehicle Mounting Charger Kit	Car Power Charger	Handstrap
Spare Part Battery	Shoulder Handle (Carrying Belt)	Soft case	Carry Bag	

Custom configuration

4G LTE

Barcode Reader

Application

Car Production Testing

"SIMPLIFIES PRODUCTION PROCESS."

During the car assembly process operators attach the ultra-rugged tablet to the vehicle to conduct on-board tests with a special steering wheel mount.

8.4" x86 Ultra-Rugged Tablet

Intel® Core™ i5-5250U
Intel® Core™ i5-7200U

NEW

Model Name	8.4"	8.4"
	R08IH8M-RTU1GP	R08IK8M-RTU1GP
Display		
Resolution	800 x 600	800 x 600
Panel Brightness	600 nits	600 nits
Contrast Ratio	600:1 (Typ.)	600:1 (Typ.)
Touch	Resistive touchscreen	Resistive touchscreen
System		
Processor	Intel® Core™ i5-5250U (3M Cache, up to 2.70 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
Memory	4GB SODIMM DDR3L-1600 (Max. 8GB)	4GB SODIMM DDR4-2133 (Max. 16GB)
Storage	64GB mSATA SSD (Max. 512GB)	128GB M.2 SSD (Max. 512GB). Optional NVME SSD up to 1TB.
OS	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro Windows Embedded Standard 7 Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise
Wireless Communications		
WLAN	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac
Bluetooth	Bluetooth 4.0	Bluetooth 5.0
WWAN	Optional 4G LTE	Optional 4G LTE
GPS	u-Blox Neo-6Q	u-Blox Neo-M8N
Connectors		
Connectors	2 x USB3.0, 1 x Audio Combo Conn. (Mic in or Line Out), 1 x Micro SD Card Slot, 1 x Micro SIM Card Slot, 1 x Power Jack, 1 x RS232/422/485 (Default RS232) 1 x RJ45 10/100/1000	2 x USB3.0, 1 x Audio Combo Conn. (Mic in or Line Out), 1 x Micro SD Card Slot, 1 x Micro SIM Card Slot, 1 x Power Jack, 1 x RS232/422/485 (Default RS232) 1 x RJ45 10/100/1000
Audio		
Speaker	2 x 1W Speaker	2 x 1W Speaker
User Controls		
Buttons	1 x Power, 1 x Menu, 3 x Function Key, 2 x Panel Brightness control key	1 x Power, 1 x Menu, 3 x Function Key, 2 x Panel Brightness control key
LED Indicator	Power, Battery, HDD, RF	Power, Battery, HDD, RF
Mechanical		
Dimensions	266 x 220 x 50.5 mm	266 x 220 x 50.5 mm
Net Weight	2.39kg	2.39kg
Environment		
Operating Temp.	-20°C to 60°C (AC Mode), -10°C to 50°C (Battery Mode)	-20°C to 60°C (AC Mode), -10°C to 50°C (Battery Mode)
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
IP Rating	IP54	IP54
Shock	MIL-STD-810G Method 516.6 Procedure I	MIL-STD-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I	MIL-STD-810G Method 514.6 Procedure I
Drop	MIL-STD-810G Method 516.6, 4 ft to concrete	MIL-STD-810G Method 516.6, 4 ft to concrete
Power		
Power Input	19V DC	19V DC
Battery	11.1V, 5200mAh Lithium-Ion	11.1V, 5200mAh Lithium-Ion
AC Adapter	100~240V, 50~60Hz	100~240V, 50~60Hz
Data Capture		
Barcode	Barcode Resder (Optional)	Barcode Reader (Optional)
Field service		
CAN Bus	2ch CAN Bus(Optional)	2ch CAN Bus(Optional)
Certifications		
Safety	CE, FCC	CE, FCC

8.4" x86 Ultra-Rugged Tablet

Intel Pentium N4200 Series

"A POWER-EFFICIENT TERMINAL WITH HIGH MOBILITY"

- 8.4" anti-scratch resistive touchscreen
- Intel® Pentium® N4200
- Windows 10 IoT Enterprise

Easy-to-carry handle bar
USB 3.0
RS232, RJ45 for Ethernet
Wi-Fi, Bluetooth, GPS
IP54 waterproof and dustproof
MIL-STD-810G shock, vibration and drop resistance
Operating temperature -20°C to 60°C

Accessories

Standard

Multi-functional Desktop Docking	Adjustable Kickstand	Vehicle Mounting Charger Kit	Car Power Charger	Handstrap
Spare Part Battery	Shoulder Handle (Carrying Belt)	Soft case	Carry Bag	

Custom configuration

4G LTE

Barcode Reader

Application

Auto Repair Workshop

"WIRELESSLY RETRIEVE DIAGNOSTIC DATA."

Durable and portable, enabling users to connect easily to exchange diagnostics data.

8.4" x86 Ultra-Rugged Tablet

Intel® Pentium® N4200

Model Name	8.4"
	R08IP8M-RTU1GP
Display	
Resolution	800 x 600
Panel Brightness	600 nits
Contrast Ratio	600:1 (Typ.)
Touch	Resistive touchscreen
System	
Processor	Intel® Pentium® N4200 (2M Cache, up to 2.5 GHz)
Memory	4GB SODIMM DDR3L-1600 (Max. 8GB)
Storage	64GB M.2 SSD (Max. 512GB)
OS	Windows 10 IoT Enterprise
Wireless Communications	
WLAN	802.11 a/b/g/n/ac
Bluetooth	Bluetooth 5.0
WWAN	Optional 4G LTE
GPS	u-Blox Neo-M8N
Connectors	
Connectors	2 x USB3.0, 1 x Audio Combo Conn. (Mic in or Line Out), 1 x Micro SD Card Slot, 1 x Micro SIM Card Slot, 1 x Power Jack, 1 x RS232/422/485 (Default RS232), 1 x RJ45 10/100/1000
Audio	
Speaker	2 x 1W Speaker
User Controls	
Buttons	1 x Power, 1 x Menu, 3 x Function Key, 2 x Panel Brightness control key
LED Indicator	Power, Battery, HDD, RF
Mechanical	
Dimensions	266 x 220 x 50.5 mm
Net Weight	2.39kg
Environment	
Operating Temp.	-20°C to 60°C (AC Mode), -10°C to 50°C (Battery Mode)
Humidity	10% to 90% (Non-condensing, RH)
IP Rating	IP54
Shock	MIL-STD-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I
Drop	MIL-STD-810G Method 516.6, 4 ft to concrete
Power	
Power Input	19V DC
Battery	11.1V, 5200mAh Lithium-Ion
AC Adapter	100~240V, 50~60Hz
Data Capture	
Barcode	Barcode Reader (Optional)
Field service	
CAN Bus	2ch CAN Bus(Optional)
Certifications	
Safety	CE, FCC

Custom configuration

4G LTE

Barcode Reader

Application

Car Diagnostic Equipment

"POWERFUL, COMPACT, AND RUGGED."

The device can serve as an auto repair computer that can check-in customers and create service documentation and to run parts management software programs.

10.4" x86 Ultra-Rugged Tablet

Intel Core i5 Series

"PORTABLE POWERFUL SOLUTION."

- 10.4" anti-scratch resistive touchscreen
- Intel® Core™ i5-5250U (R10IH8M-RTT2GP
- Intel® Core™ i5-7200U (R10IK8M-RTT2GP)
- Windows 10/8/7 (R10IH8M-RTT2GP)
- Windows 10 IoT Enterprise (R10IK8M-RTT2GP)

Easy-to-carry handle bar
USB 3.0
RS232, RJ45 for Ethernet
Wi-Fi, Bluetooth, GPS
IP54 waterproof and dustproof
MIL-STD-810G shock, vibration and drop resistance
Operating temperature -20°C to 60°C

Accessories

Standard

Multi-functional Desktop Docking	Adjustable Kickstand	Vehicle Mounting Charger Kit	Car Power Charger	Handstrap
Spare Part Battery	Shoulder Handle (Carrying Belt)	Soft case	Carry Bag	

10.4” x86 Ultra-Rugged Tablet

Intel® Core™ i5-5250U
Intel® Core™ i5-7200U

NEW

Model Name	10.4”	10.4”
	R10IH8M-RTT2GP	R10IK8M-RTT2GP
Display		
Resolution	1024 x 768	1024 x 768
Panel Brightness	700 nits	700 nits
Contrast Ratio	1000:1 (Typ.)	1000:1 (Typ.)
Touch	Resistive touchscreen	Resistive touchscreen
System		
Processor	Intel® Core™ i5-5250U (3M Cache, up to 2.70 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
Memory	4GB SODIMM DDR3L-1600 (Max. 8GB)	4GB SODIMM DDR4-2133 (Max. 16GB)
Storage	64GB mSATA SSD (Max. 512GB)	128GB M.2 SSD (Max. 512GB). Optional NVME SSD up to 1TB.
OS	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro Windows Embedded Standard 7 Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise
Wireless Communications		
WLAN	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac
Bluetooth	Bluetooth 4.0	Bluetooth 5.0
WWAN	Optional 4G LTE	Optional 4G LTE
GPS	u-Blox Neo-6Q	u-Blox Neo-M8N
Connectors		
Connectors	2 x USB3.0, 1 x Mic in or Line Out, 1 x Micro SD Card Slot, 1 x Micro SIM Card Slot, 1 x Power Jack, 1 x RS232/422/485 (Default RS232), 1 x RJ45 10/100/1000	2 x USB3.0, 1 x Mic in or Line Out, 1 x Micro SD Card Slot, 1 x Micro SIM Card Slot, 1 x Power Jack, 1 x RS232/422/485 (Default RS232), 1 x RJ45 10/100/1000
Audio		
Speaker	2 x 1W Speaker	2 x 1W Speaker
User Controls		
Buttons	1 x Power, 1 x Menu, 3 x Function Key, 2 x Panel Brightness Control Key	1 x Power, 1 x Menu, 3 x Function Key, 2 x Panel Brightness Control Key
LED Indicator	Power, Battery, HDD, RF	Power, Battery, HDD, RF
Mechanical		
Dimensions	266 x 220 x 50.5 mm	266 x 220 x 50.5 mm
Net Weight	2.39 kg	3.0 kg
Environment		
Operating Temp.	-20°C to 60°C (AC Mode), -10°C to 50°C (Battery Mode)	-20°C to 60°C (AC Mode), -10°C to 50°C (Battery Mode)
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
IP Rating	IP54 (Optional IP65)	IP54 (Optional IP65)
Shock	MIL-STD-810G Method 516.6 Procedure I	MIL-STD-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I	MIL-STD-810G Method 514.6 Procedure I
Drop	MIL-STD-810G Method 514.6 Procedure I	MIL-STD-810G Method 516.6, 4 ft to concrete
Power		
Power Input	19V DC	19V DC
Battery	11.1V, 5200mAh Lithium-Ion	11.1V, 5200mAh Lithium-Ion
AC Adapter	100~240V, 50~60Hz	100~240V, 50~60Hz
Data Capture		
Barcode	Barcode Reader (Optional)	Barcode Reader (Optional)
Field service		
CAN Bus	2ch CAN Bus(Optional)	2ch CAN Bus(Optional)
Certifications		
Safety	CE, FCC	CE, FCC

10.4" x86 Ultra-Rugged Tablet

Intel Pentium N4200 Series

"A POWER-EFFICIENT TERMINAL WITH HIGH MOBILITY"

- 10.4" anti-scratch resistive touchscreen
- Intel® Pentium® N4200
- Windows 10 IoT Enterprise

Easy-to-carry handle bar
USB 3.0
RS232, RJ45 for Ethernet
Wi-Fi, Bluetooth, GPS
IP54 waterproof and dustproof
MIL-STD-810G shock, vibration and drop resistance
Operating temperature -20°C to 60°C

Accessories

Standard

Multi-functional Desktop Docking	Adjustable Kickstand	Vehicle Mounting Charger Kit	Car Power Charger	Handstrap
Spare Part Battery	Shoulder Handle (Carrying Belt)	Soft case	Carry Bag	

Custom configuration

4G LTE

Barcode Reader

Application

Bulldozer on AConstruction Site

"FOR EXTREME CONDITIONS."

Meets MIL-STD-810G quality standards for vibration,shock, and extremes of temperature to ensure a durable mobile computing experience in hazardous locations.

10.4” x86 Ultra-Rugged Tablet

Intel® Pentium® N4200

Model Name	10.4”
	R10IP8M-RTT2GP
Display	
Resolution	1024 x 768
Panel Brightness	700 nits
Contrast Ratio	1000:1 (Typ.)
Touch	Resistive touchscreen
System	
Processor	Intel® Pentium® N4200 (2M Cache, up to 2.5 GHz)
Memory	4GB SODIMM DDR3L-1600 (Max. 8GB)
Storage	64GB M.2 SSD (Max. 512GB)
OS	Windows 10 IoT Enterprise
Wireless Communications	
WLAN	802.11 a/b/g/n/ac
Bluetooth	Bluetooth 5.0
WWAN	Optional 4G LTE
GPS	u-Blox Neo-M8N
Connectors	
Connectors	2 x USB3.0, 1 x Audio Combo Conn. (Mic in or Line Out), 1 x Micro SD Card Slot, 1 x Micro SIM Card Slot, 1 x Power Jack, 1 x RS232/422/485 (Default RS232), 1 x RJ45 10/100/1000
Audio	
Speaker	2 x 1W Speaker
User Controls	
Buttons	1 x Power, 1 x Menu, 3 x Function Key, 2 x Panel Brightness Control Key
LED Indicator	Power, Battery, HDD, RF
Mechanical	
Dimensions	266 x 220 x 50.5 mm
Net Weight	3.0 kg
Environment	
Operating Temp.	-20°C to 60°C (AC Mode), -10°C to 50°C (Battery Mode)
Humidity	10% to 90% (Non-condensing, RH)
IP Rating	IP54 (Optional IP65)
Shock	MIL-STD-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I
Drop	MIL-STD-810G Method 516.6, 4 ft to concrete
Power	
Power Input	19V DC
Battery	11.1V, 5200mAh Lithium-Ion
AC Adapter	100~240V, 50~60Hz
Data Capture	
Barcode	Barcode Reader (Optional)
Field service	
CAN Bus	2ch CAN Bus(Optional)
Certifications	
Safety	CE, FCC

13.3" x86 Ultra-Rugged Tablet

M133 Series

Custom configuration

Barcode Reader

Smart Card Reader

HF RFID Reader

4G LTE

High Panel Brightness

Battery Hotswap

Application

Workshop Diagnostics

"PRODUCTIVE AND CONVINIENT TO CARRY AROUND WORKSHOP."

Up-to-date technical service information, installation instructions can be retrieved immediately from the cloud, always accessible test procedures.

"INSPIRED BY CAR MECHANICS. DESIGNED FOR REPAIR SERVICES."

- 13.3" 1920 x 1080 PCAP touchscreen with optical bonding
- Intel® Core™ i5-5250U (M133W)
- Intel® Core™ i5-7200U (M133K)
- Intel® Core™ i5-8265U (M133WK)
- Windows 10 IoT Enterprise / Ubuntu 18.04

2MP webcam front camera, 5MP rear camera
Glove/Rain/Stylus Modes
Supports Active Stylus
USB 3.0, USB 2.0, USB Type-C
HDMI, RS232, RJ45 for Ethernet
Service Window (2 x M.2 SSD and 1 x mini PCIe)
WWAN, Bluetooth, GPS
IP65 waterproof and dustproof
MIL-STD-810G shock, vibration and drop resistance
Operating temperature -10°C to 50°C

Accessories

Standard				
Adapter and Power Cord	Stylus	Standard Battery	Stand with Integrated Handle	
Optional				
Desk Dock	VESA Mounting kit	VESA Mounting kit 2	Shoulder Strap	Battery Charger
RAM Mount Kit	Vehicle Charger			

13.3" x86 Ultra-Rugged Tablet

Intel® Core™ i5-5250U
Intel® Core™ i5-7200U
Intel® Core™ i5-8265U

NEW

Q2, 2020

Model Name	13.3" M133W	13.3" M133K	13.3" M133WK
Display			
Resolution	1920 x 1080	1920 x 1080	1920 x 1080
Panel Brightness	350 nits with optical bonding	350 nits with optical bonding, optional high Panel Brightness 600 nits	350 nits with optical bonding, optional high Panel Brightness 600 nits
Contrast Ratio	800:1 (Typ.)	800:1 (Typ.)	800:1 (Typ.)
Viewing angle	-85~85 (H) ; -85~85 (V)	-85~85 (H) ; -85~85 (V)	-85~85 (H) ; -85~85 (V)
Sensors	Light sensor, G sensor, Gyro, E-compass	Light sensor, G sensor, Gyro, E-compass	Light sensor, G sensor, Gyro, E-compass
Touch	PCAP touchscree with Glove/Rain/ Stylus mode	PCAP touchscree with Glove/Rain/ Stylus mode	PCAP touchscree with Glove/Rain/ Stylus mode
System			
Processor	Intel® Core™ i5-5250U (3M Cache, up to 2.70 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-8265U (6M Cache, up to 3.90 GHz)
Memory	4GB SODIMM DDR3L-1600 (Up to 16GB)	4GB SODIMM DDR4-2400 (Up to 16GB)	4GB SODIMM DDR4-2400 (Up to 16GB)
Storage	1 x 128GB M.2 SSD, (Up to 1TB with 2 Internal SSD Slot)	1 x 128GB Optional M.2 SSD (Up to 1TB with 2 Internal SSD Slot)	1 x 128GB Optional M.2 SSD (Up to 1TB with 2 Internal SSD Slot)
OS	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro Windows Embedded Standard 7 Windows 7 Pro for Embedded System Optional Ubuntu 18.04	Windows 10 IoT Enterprise Optional Ubuntu 18.04	Windows 10 IoT Enterprise Optional Ubuntu 18.04
Wireless Communications			
WLAN	802.11 a/b/g/n/ac (M.2)	802.11a/b/g/n/ac (M.2)	802.11a/b/g/n/ac (M.2)
Bluetooth	Bluetooth 4.2 Dual Mode (Classic + Low Energy) (M.2)	Bluetooth 5.0 (M.2)	Bluetooth 5.0 (M.2)
WWAN	Optional 4G	Optional 4G	Optional 4G
GPS	GPS	GPS, GLONASS	GPS, GLONASS
Connectors			
Connectors	1 x HDMI, 1 x RJ45 10/100/1000, 1 x Serial Com Port, 2 x USB 3.0, 2 x USB 2.0, 1 x SD Card Slot, 1x Power (DC in), 1 x Docking, 1 x Headphone Combo, 1 x Service Windows (Access to 2 x M.2 SSD cards and 1 x mini PCI-e WWAN card), 1 x Optional Expansion Window (Smart Card Reader/Barcode)	1 x HDMI, 1 x RS232, 1 x RJ45 10/100/1000, 2 x USB 3.0, 2 x USB 2.0, 1 x USB 3.1 Type-C (Gen1), 1 x Power (DC in), 1 x Micro SD Slot, 1 x Headphone Combo Jack, 1 x Service Windows (Access to 1 x mini PCI-e WWAN card), 1 x Optional Expansion Window (Smart Card Reader/ Barcode)	1 x HDMI, 1 x RS232, 1 x RJ45 10/100/1000, 2 x USB 3.0, 2 x USB 2.0, 1 x USB 3.1 Type-C (Gen1), 1 x Power (DC in), 1 x Micro SD Slot, 1 x Headphone Combo Jack, 1 x Service Windows (Access to 1 x mini PCI-e WWAN card), 1 x Optional Expansion Window (Smart Card Reader/ Barcode)
Audio			
Audio	1 x Built-in Digital Mic with Noise Cancellation, 2 x 1W Speaker	1 x Built-in Digital Mic with Noise Cancellation, 2 x 1W Speaker	1 x Built-in Digital Mic with Noise Cancellation, 2 x 1W Speaker
User Controls			
Buttons	1 x Power, 1 x Menu, 3 x function key, 2 x Volume Key	1 x Power, 1 x Menu, 3 x function key, 2 x Volume Key	1 x Power, 1 x Menu, 3 x function key, 2 x Volume Key
LED indicator	Power, Battery, SSD, RF	Power, Battery, SSD, RF	Power, Battery, SSD, RF
Mechanical			
Dimensions	338.2 x 240 x 30 mm	338.2 x 240 x 30 mm	338.2 x 240 x 30 mm
Net Weight	2.4 Kg (Without Kickstand), 2.8 Kg (With Kickstand)	2.4 Kg (Without Kickstand), 2.8 Kg (With Kickstand)	2.4 Kg (Without Kickstand), 2.8 Kg (With Kickstand)
Environment			
Operating Temp.	-10°C to 50°C	-10°C to 50°C	-10°C to 50°C
Humidity	30% to 80% (Non-condensing, RH)	30% to 80% (Non-condensing, RH)	30% to 80% (Non-condensing, RH)
IP Rating	IP65	IP65	IP65
Shock	MIL-STD-810G Method 516.6 Procedure I	MIL-STD-810G Method 516.6 Procedure I	MIL-STD-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure	MIL-STD-810G Method 514.6 Procedure	MIL-STD-810G Method 514.6 Procedure
Drop	MIL-STD-810G Method 516.6, 4 ft to concrete	MIL-STD-810G Method 516.6, 4 ft to concrete	MIL-STD-810G Method 516.6, 4 ft to concrete
Power Requirements			
Power Input	12~19V DC	12~19V DC	12~19V DC
Battery	7.4V, 10280mAh (Typ.) Li-Polymer (2S2P), Hot-Swap (Optional)	7.4V, 10280mAh (Typ.) Li-Polymer (2S2P), Hot-Swap (Optional)	7.4V, 10280mAh (Typ.) Li-Polymer (2S2P), Hot-Swap (Optional)
AC Adapter	100~240V, 50~60Hz	100~240V, 50~60Hz	100~240V, 50~60Hz
Data Capture			
RFID	HF RFID Reader (Optional) (ISO15693, ISO14443A, ISO18092)	HF RFID Reader (Optional) (ISO15693, ISO14443A, ISO18092)	HF RFID Reader (Optional) (ISO15693, ISO14443A, ISO18092)
Barcode Reader	1D/2D barcode reader (Optional)	1D/2D barcode reader (Optional)	1D/2D barcode reader (Optional)
Smart Card Reader	Built-in smart card reader (Optional)	Built-in smart card reader (Optional)	Built-in smart card reader (Optional)
Camera	Rear: 5MP auto-focus camera with LED flash, Front: 2MP camera	Rear: 5MP auto-focus camera with LED flash, Front: 2MP camera	Rear: 5MP auto-focus camera with LED flash, Front: 2MP camera
Certification			
Safety	CE, FCC, IC, UL	CE, FCC, IC, UL	CE, FCC, IC, UL

VEHICLE MOUNTED COMPUTER

Vehicle Mounted Computer

Overview

In the warehouse environment, the ability to mount mobile devices and computers to forklifts, trucks, taggers, and inventory pickers is essential for productivity purposes. From inventory management to order fulfillment, asset tracking, shipping and receiving, the warehouse floor is complex ecosystem that requires highly efficiency technology to keep things running smoothly.

Our vehicle mount computers include:

- The latest Android™ or Windows® operating system
- Robust wireless communications
- Vehicle mounting solutions

Winmate's full line of rugged vehicle-mount computers, designed to fit seamlessly into forklifts and other warehouse vehicles will help minimize errors, streamline ordering and inventory management, and improve operational efficiencies.

Product Overview

Winmate offers advanced platform Android and Windows vehicle mount computers with application-focused features such as wireless communications, external antennas, wide power input and ignition control.

All the devices are rugged, waterproof and vibration resistant to meet the daily challenges of warehouse operations.

Technology

- **Ruggedness –** Winmate Vehicle mounted computers are rugged enough to handle any industrial environment from extreme cold to dry heat, potential drop and strong vibration from the moving vehicle. To withstand these conditions, industrial grade computers have a high IP rating indicating water and dust resistance, fanless thermal solution and industrial-grade internal components.

- **Driver's safety and security –** Nothing should distract a forklift operator driving around warehouse facilities. Screen blanking is a function that automatically disables the screen while the vehicle is moving. Also when the computer is left idling, the screen will automatically lock itself for security reasons.

- **Ability to connect multiple peripherals –** Barcode scanners, mobile printers, USB drives, external PC and monitor, all of these peripherals need to be connected to forklift computers from time to time. Various input and output interfaces onboard open more possibilities for the computer.

- **User-friendly interface –** Computers come with responsive touchscreens for the convenience of the operator. Resistive is usually more resistant to scratches while projected capacitive offers multitouch capabilities for more responsive applications.

Product Guide

x86 Vehicle Mount Computer		
		
FM07	FM08	FM10
p.63	p.67	p.69

Arm Vehicle Mount Computer		
		
FM07A	FM10A	FM10Q
p.65	p.72	p.72

Custom configuration

GPS

4G LTE

External Antenna

Additional Storage

Additional Memory

Application

Cargo Truck Navigation

"IMPROVE EFFICIENCY OF ROAD CARGO."

Compact 7" vehicle mount computer equipped with external WWAN and GPS antennas allow operator to monitor the location and delivery status of the truck. Using connectivity, truck drivers on remote roads can communicate with each other and with operations HQ.

7" x86 Vehicle Mounted Computer

FM07

E13

" IN-VEHICLE SOLUTION IN A COMPACT FORM FACTOR. "

- 7" 1024 x 600 PCAP touchscreen
- Intel® Celeron® N3350 (Optional N4200)
- Windows 10 IoT Enterprise, Ubuntu 18.04

64GB M.2 SSD
Bluetooth 4.0
Wi-Fi, GPS
RAM mount, VESA mount
MIL-STD-810G shock, vibration and drop resistant
Power input 9~36V DC with ignition control
IP65 waterproof and dustproof
Wide operating temperature -20 to 60°C

Accessories

Standard				
M12 Power Cable WI-FI Antenna	M12 LAN Cable	USB Cable	RS232 Cable	CAN Bus Cable
Optional				
Audio Cable	Mounting Kit 1-No Drill Solution	Mounting Kit 2-Drill Solution	Mounting Kit 3-Keyboard Mounting	
WWAN Antenna	GPS Antenna			

7” x86 Vehicle Mounted Computer

Intel® Celeron® N3350 (Optional N4220)

Model Name	7”
	FM07
Display	
Resolution	1024 x 600
Panel Brightness	1000 nits
Contrast Ratio	700:1
Viewing angle	-75~75 (H) ; -70~75 (V)
Touch	PCAP touchscreen with optional protection glass
System	
Processor	Intel® Celeron® N3350 (2M Cache, up to 2.4 GHz) (Optional N4200)
Memory	2GB DDR3L 1600 SODIMM (Max. 8GB)
Storage	64GB M.2 SSD (Up to 256GB)
OS	Windows 10 IoT Enterprise, Ubuntu 18.04
Wireless Communications	
WLAN	802.11 a/b/g/n/ac
Bluetooth	Bluetooth 4.0
WWAN	Optional LTE : BI/B2/B3/B4/B5/B7/B8/B13/B17/B20 WCDMA/HSDPA/HSUPA/HSPA+ :850 MHz/900 MHz/1700 MHz (AWS)/1900 MHz/ 2100 MHz GPRS/EDGE
GPS	u-Blox Neo-M8N Optional GPS Antenna
Connectors	
Computer	1 x RS232, 1 x Gigabit Ethernet LAN 10/100/1000 Mbps (M12 type), 1 x Power input 9-36V DC with ignition control, 1 x Micro SIM Card Slot, 2 x USB, 5 x DI, 3 x DO, 2 x CAN Bus, Wi-Fi Antenna, Bluetooth Antenna, WWAN Antenna (Optional), GPS Antenna (Optional)
Dock	N/A
Mechanical	
Dimensions	188.75 x 144.75 x 39.5 mm (7.43 x 5.70 x 1.56 inches)
Mounting	RAM Mount, VESA Mount (75 x 75 mm)
Net Weight	1.0 kg (2.20 lbs)
Environment	
Operating Temp.	-20°C to 60°C (-4° to 140°F)
Humidity	10% to 95% (Non-condensing, RH)
IP Rating	Full IP65
Shock	Compliant with MIL-STD-810G Method 516.6 Procedure I
Vibration	Compliant with MIL-STD-810G Method 514.6 Procedure I
Power	
Power Input	9~36V DC (M12 type) with ignition control
Battery	N/A
Data Capture	
Camera	N/A
Certifications	
Safety	CE, FCC, E-Mark

Custom configuration

GPS

4G LTE

External Antenna

Application

Forklift Automation

"COMPACT AND RUGGED. IDEAL FOR SMALL SIZE FORKLIFT."

Compact 7" vehicle mount computer FM07A gives forklift operator ability to monitor the lpick-up and drop-off location and optimizes in-house routes for faster and more precise delivery.

7" Arm Vehicle Mounted Computer

FM07A

E13

" COMPACT ANDROID VEHICLE COMPUTER. "

- 7" 1024 x 600 PCAP touchscreen
- Arm Cortex-A9
- Android 6.0

1GB LPDDR3, 16GB eMMc
Bluetooth 4.0
Wi-Fi, GPS
RAM mount, VESA mount
MIL-STD-810G shock, vibration and drop resistance
Power input 9~24V DC with ignition control
IP65 waterproof and dustproof
Wide operating temperature -20 to 60°C

Accessories

Standard				
M12 Power Cable WI-FI Antenna	M12 LAN Cable	USB Cable	RS232 Cable	CAN Bus Cable
Optional				
Audio Cable	Mounting Kit 1-No Drill Solution	Mounting Kit 2-Drill Solution	Mounting Kit 3-Keyboard Mounting	
WWAN Antenna	GPS Antenna			

7” Arm Vehicle Mounted Computer

Arm Cortex-A9

Model Name	7”
	FM07A
Display	
Resolution	1024 x 600
Panel Brightness	1000 nits
Contrast Ratio	700:1
Viewing angle	-75~75 (H) ; -70~75 (V)
Touch	PCAP touchscreewith optional protection glass
System	
Processor	Arm Cortex-A9 (1 GHz to 1.6 GHz)
Memory	1GB LPDDR3
Storage	16GB eMMC
OS	Android 6.0
Wireless Communications	
WLAN	802.11 a/b/g/n/ac
Bluetooth	Bluetooth 4.0
WWAN	Optional LTE : BI/B2/B3/B4/B5/B7/B8/B13/B17/B20 WCDMA/HSDPA/HSUPA/HSPA+ : 850 MHz/900 MHz/1700 MHz (AWS)/1900 MHz/ 2100 MHz GPRS/EDGE
GPS	u-Blox Optional GPS Antenna
Connectors	
Computer	1 x RS232, 1 x Gigabit Ethernet LAN 10/100/1000 Mbps (M12 type), 1 x Power input 9~24V DC with ignition control, 1 x Micro SIM Card Slot, 2 x USB, 5 x DI, 3 x DO, 2 x CAN Bus, Wi-Fi Antenna, Bluetooth Antenna, WWAN Antenna (Optional), GPS Antenna (Optional)
Dock	N/A
Mechanical	
Dimensions	189.93 x 145.93 x 39.8 mm
Mounting	RAM Mount, VESA Mount (75 x 75 mm)
Net Weight	1.0 kg (2.20 lbs)
Environment	
Operating Temp.	-20°C to 60°C (-4° to 140°F)
Humidity	10% to 95% (Non-condensing, RH)
IP Rating	Full IP65
Shock	Compliant with MIL-STD-810G Method 516.6 Procedure I
Vibration	Compliant with MIL-STD-810G Method 514.6 Procedure I
Power	
Power Input	9~24V DC (M12 type) with ignition control
Battery	N/A
Data Capture	
Camera	N/A
Certifications	
Safety	CE, FCC, E-Mark

8” x86 Vehicle Mounted Computer

FM08 Series

Custom configuration

GPS

4G LTE

External Antenna

Additional Storage

Additional Memory

“ QWERTY KEYPAD TO INPUT DATA IN ANY CONDITIONS. ”

- 8” 800 x 480 with resistive touchscreen
- QWERTY keypad
- Intel Atom® E3845
- Windows 10/8/7

4GB SODIMM DDR3L-1600
64GB M.2 SSD
Wi-Fi, GPS, Bluetooth 4.0
2MP webcam camera
Screen blanking function for safety
RAM mount, VESA mount
Field replaceable front panel
MIL-STD-810G shock, vibration and drop resistance
Power input 10~60V DC with ignition control
IP65 waterproof and dustproof
Wide operating temperature -30 to 50°C

Application

Distribution Center

”IMPROVES OPERATOR PRODUCTIVITY.”

The FM08 helps to handle the challenges of the modern warehouse even in cold storage environments. QWERTY keypad allows easy typing even while wearing thick gloves. Detachable front panel provides mobility to forklift operator to perform tasks out of the forklift.

Accessories

Standard				
Power Cable with Fuse	Wi-Fi Antenna x 2	Quick Start Guide	USB Cable	Driver CD
External Antenna Fixing Bracket	Power Converter Cable	Adapter		
Optional				
DC Power Jack Cable	No Drill Mounting Kit	RS232 Cable	Audio Cable	CAN Bus Cable
WWAN Antenna x 2	Key for Vehicle dock	Stylus Kit + Screw	Fuse Kit	Adapter
Drill Mounting Kit	Keyboard Mounting	UHF Fixed Reader	Antenna	LAN Cable

8” x86 Vehicle Mounted Computer

Intel Atom® E3845

Model Name	8”
	FM08
Display	
Resolution	800 x 480
Panel Brightness	500 nits
Contrast Ratio	1100:1
Viewing angle	-80~80 (H) ; -80~80 (V)
Sensors	G-sensor, Light-sensor
Touch	Anti-scratch Resistive touchscreen, support stylus
System	
Processor	Intel Atom® E3845 (2M Cache, 1.91 GHz)
Memory	4GB SODIMM DDR3L-1600 (Up to 8GB)
Storage	64GB M.2 SSD (Up to 256GB)
OS	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro Windows Embedded Standard 7
Wireless Communications	
WLAN	802.11 a/b/g/n/ac
Bluetooth	Bluetooth 4.0
WWAN	Optional 4G (LTE, HSPA+, GSM/GPRS/EDGE, EV-DO Rev A, 1 x RTT), Optional 3G (HSPA+, GSM/GPRS/EDGE)
GPS	u-blox NEO-6Q (located at the vehicle dock)
Connectors	
Computer	1 x Micro SIM Card Slot, 1 x Micro SD Card Slot, 1 x USB 3.0, 1 x 12V DC power input jack
Dock	1 x COM 1, 1 x COM 2, 1 x DB9 for USB port (Support 2 x USB2.0), 1 x CAN Bus/AUDIO, 1 x 400Mbps LAN port (Optional PoE, support 802.3at Type 2, 1 x Power, SMA Connector for external antenna (WiFi, Optional GPS, Optional WWAN)
Mechanical	
Dimensions	Computer: 268 x 214 x 32 mm, Docking: 202 x 245 x 52 mm
Net Weight	Computer 1.6 kg and Docking 1.6 kg
Environment	
Operating Temp.	-30°C to 50°C (-22° to 122°F)
Humidity	5% to 95% (Non-condensing, RH)
IP Rating	IP65
Impact	Support EN62262 IK07 rating
Shock	Compliant with MIL-STD-810G Method 516.6 Procedure I
Vibration	Compliant with MIL-STD-810G Method 514.6 Procedure I
Power	
Power Input	10~60V with isolation power and ignition control
Battery	7.6V typ. 3800mAh Li-Polymer Battery (2S1P)
Data Capture	
Camera	Front: 2MP camera
Certifications	
Safety	CE, FCC, UL60950-1, EN60950-1

10.4" x86 Vehicle Mounted Computer

FM10 Series

"FITS SEAMLESSLY INTO WAREHOUSE VEHICLES."

- 10.4" 1024 x 768 resistive touchscreen
- Intel Atom® E3845
- Windows 10/8/7

4GB SODIMM DDR3L-1600
64GB M.2 SSD
Wi-Fi, GPS, Bluetooth 4.0
2MP webcam camera
Screen blanking function for safety
RAM mount, VESA mount
Field replaceable front panel
MIL-STD-810G shock, vibration and drop resistance
Power input 10~60V DC with ignition control
IP65 waterproof and dustproof
Wide operating temperature -30 to 50°C

Accessories

Standard				
Power Cable with Fuse	Wi-Fi Antenna x 2	Quick Start Guide	USB Cable	Driver CD
External Antenna Fixing Bracket	Power Converter Cable	Adapter		
Optional				
DC Power Jack Cable	No Drill Mounting Kit	RS232 Cable	Audio Cable	CAN Bus Cable
WWAN Antenna x 2	Key for Vehicle dock	Stylus Kit + Screw	Fuse Kit	Adapter
Drill Mounting Kit	Keyboard Mounting	UHF Fixed Reader	Antenna	LAN Cable

Custom configuration

GPS · 4G LTE · External Antenna

Additional Storage · Additional Memory

Application

Intermodal Facility Solution

"IMPROVE OPERATIONAL EFFICIENCY."

Winmate's VMC solution can be compatible with old peripherals with various I/O ports; the ability lock the touch screen and dim the display when the vehicle is moving, allons for safe vehicle operations.

10.4” x86 Vehicle Mounted Computer

Intel Atom® E3845

Model Name	10.4”
	FM10
Display	
Resolution	1024 x 768
Panel Brightness	400 nits
Contrast Ratio	1200:1
Viewing angle	-88~88 (H) ; -88~88 (V)
Sensors	G-sensor, Light-sensor
Touch	Anti-scratch Resistive touchscreen, support stylus
System	
Processor	Intel Atom® E3845 (2M Cache, 1.91 GHz)
Memory	4GB SODIMM DDR3L-1600 (Up to 8GB)
Storage	64GB M.2 SSD (Up to 256GB)
OS	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro Windows Embedded Standard 7
Wireless Communications	
WLAN	802.11 a/b/g/n/ac
Bluetooth	Bluetooth 4.0
WWAN	Optional 4G (LTE, HSPA+, GSM/GPRS/EDGE, EV-DO Rev A, 1 x RTT), Optional 3G (HSPA+, GSM/GPRS/EDGE)
GPS	u-blox NEO-6Q (located at the vehicle dock)
Connectors	
Computer	1 x Micro SIM Card Slot, 1 x Micro SD Card Slot, 1 x USB 3.0, 1 x 12V DC power input jack
Dock	1 x COM 1, 1 x COM 2, 1 x DB9 for USB port (Support 2 x USB2.0), 1 x CAN Bus/AUDIO, 1 x 400Mbps LAN port (Optional PoE) 802.3at Type 2, 1 x Power, SMA Connector for external antenna (WiFi, Optional GPS, Optional WWAN)
Mechanical	
Dimensions	Computer: 268 x 214 x 35 mm Docking: 202 x 245 x 52 mm
Net Weight	Computer 1.7kg and Docking 1.6kg
Environment	
Operating Temp.	-30°C to 50°C (-22° to 122°F)
Humidity	5% to 95% (Non-condensing, RH)
IP Rating	IP65
Impact	Support EN62262 IK07 rating
Shock	Compliant with MIL-STD-810G Method 516.6 Procedure I
Vibration	Compliant with MIL-STD-810G Method 514.6 Procedure I
Power	
Power Input	10~60V with isolation power and ignition control
Battery	7.6V typ. 3800mAh Li-Polymer Battery (2S1P)
Data Capture	
Camera	Front: 2MP camera
Certifications	
Safety	CE, FCC, UL60950-1, EN60950-1, PTCRB

10.4” Arm Vehicle Mounted Computer

FM10A/Q Series

“ FOR YOUR UNIQUE ANDROID IN-VEHICLE APPLICATION. ”

- 10.4” 1024 x 768 PCAP touchscreen
- Arm Cortex-A9 (FM10A)
- Qualcomm® Snapdragon™ 660 (FM10Q)
- Android 6.0 (FM10A)
- Android 9.0 (FM10Q)

Wi-Fi, GPS, Bluetooth
2MP web camera
Screen blanking function for safety
RAM mount, VESA mount
Field replaceable front panel
MIL-STD-810G shock, vibration and drop resistance
Power input 10~60V DC with ignition control
IP65 waterproof and dustproof
Wide operating temperature -30 to 50°C

Accessories

Standard

Power Cable with Fuse	Wi-Fi Antenna x 2	Quick Start Guide	USB Cable	Driver CD (Only FM10A)
External Antenna Fixing Bracket	Power Converter Cable	Adapter		

Optional

DC Power Jack Cable	No Drill Mounting Kit	RS232 Cable	Audio Cable	CAN Bus Cable
WWAN Antenna x 2	Key for Vehicle dock	Stylus Kit + Screw	Fuse Kit	Adapter
Drill Mounting Kit	Keyboard Mounting	UHF Fixed Reader	Antenna	LAN Cable

Custom configuration

GPS · 4G LTE · External Antenna

Application

Warehouse

”MEETING A VARIETY OF CUSTOMER OBLIGATIONS.”

Winmate FM10A is one of the first vehicle mount computers with Android operating system on the market. Android platform allows for the fast development of a variety of customized applications to satisfy warehouse needs.

10.4” Arm Vehicle Mounted Computer

Arm Cortex-A9
Qualcomm® Snapdragon™ 660

NEW

Q2, 2020

Model Name	10.4”	10.4”
	FM10A	FM10Q
Display		
Resolution	1024 x 768	1024 x 768
Panel Brightness	400 nits	400 nits
Contrast Ratio	1200:1	1200:1
Viewing angle	-88~88 (H) ; -88~88 (V)	-88~88 (H) ; -88~88 (V)
Sensors	G-sensor, Light-sensor	G-sensor, Light-sensor, Temp-Sensor
Touch	PCAP touchscreen	PCAP touchscreen
System		
Processor	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Qualcomm® Snapdragon™ 660 (Octa-core up to 2.2 GHz)
Memory	1GB LPDDR3	3GB LPDDR3
Storage	16GB eMMC	32GB eMMC
OS	Android 6.0	Android 9.0
Wireless Communications		
WLAN	802.11 a/b/g/n	802.11 a/b/g/n/ac
Bluetooth	Bluetooth 4.0	Bluetooth 5.0
WWAN	Optional 4G (LTE, HSPA+, GSM/GPRS/EDGE, EV-DO Rev A, 1 x RTT), Optional 3G (HSPA+, GSM/GPRS/EDGE)	Optional 4G LTE
GPS	u-Blox Neo-6Q on Docking	u-Blox Neo-8 Series on Docking board
Connectors		
Computer	1 x Micro SIM Card Slot, 1 x Micro SD Card Slot, 1 x USB OTG, 1 x 12V DC power input jack	1 x Dual-Nano SIM Card Slot, 1 x Micro SD Card Slot, 1 x USB 3.0 Type-C, 1 x 12V DC power input jack
Dock	1 x COM 1, 1 x COM 2, 1 x DB9 for USB port (Support 2 x USB2.0), 1 x CAN Bus or 1 x Audio, 1 x 400Mbps LAN port Optional PoE as Power sourcing equipment (PSE) support 802.3at Type-2, 1 x Power Connector SMA Connector for external antenna (WiFi, Optional GPS, Optional WWAN)	1 x COM 1, 1 x COM 2, 1 x DB9 for USB port (Support 2 x USB2.0), 1 x CAN Bus or 1 x Audio, 1 x Gigabit LAN port, 1 x Power Connector SMA Connector for external antenna (WiFi, Optional WWAN)
Mechanical		
Dimensions	Computer: 268 x 214 x 35 mm Docking: 202 x 245 x 52 mm	Computer: 268 x 214 x 35 mm Docking: 202 x 245 x 52 mm
Net Weight	Computer 1.7kg and Docking 1.6kg	Computer 1.7kg and Docking 1.6kg
Environment		
Operating Temp.	AC Mode: -30°C to 50°C (-22°F to 122°F) Battery Mode: 0°C to 50°C (32°F to 122°F)	AC Mode: -30°C to 50°C (-22°F to 122°F) Battery Mode: -10°C to 50°C (-14°F to 122°F)
Humidity	5% to 90% (Non-condensing, RH)	5% to 90% (Non-condensing, RH)
IP Rating	IP65	IP65
Impact	Support EN62262 IK07 rating	Support EN62262 IK07 rating
Shock	Compliant with MIL-STD-810G Method 516.6 Procedure I	MIL-STD-810G Method 516.6 Procedure I
Vibration	Compliant with MIL-STD-810G Method 514.6 Procedure I	MIL-STD-810G Method 514.6 Procedure I
Power		
Power Input	10~60V with isolation power and ignition control	10~60V with isolation power and ignition control
Battery	11.1V typ. 2600mAh Li-Polymer Battery (3S1P)	7.6V, Battery (2S1P)
Data Capture		
Camera	Front: 2MP camera	Front: 2MP camera
Certifications		
Safety	CE, FCC, UL60950-1, EN60950-1	CE, FCC,

Custom configuration

9-36V DC

Wide Power

Application

Wood Harvester

"FOR DEMANDING LOGGING CONDITIONS."

Winmate 10.4" GS Series Panel PC was installed inside a wood harvester. G-WIN panel PC designed for demanding conditions survives both water drops and temperature changes.

x86 G-WIN GS Series Panel PC

G-WIN GS Series

"TOUGH. RUGGED. HEAVY DUTY."

- 10.1"~15" PCAP touchscreen
- Intel® Celeron® N2930
- Windows 10/8/7

M12 waterproof connectors
Tested MIL-STD 810-G, MIL-STD 461-F
Mounting solution for vehicle applications
Power ignition control
Full IP65 waterproof and dust proof
Wide operating temperature

Accessories

RS232 Cable	VGA Cable	USB Cable	Power Cable	Driver CD

x86 G-WIN GS Series Panel PC

Intel® Celeron® N2930

Model Name	10.1" (16:9)	10.4"	12.1"	15"
	W10IB3S-GSH1	R10IB3S-GST2	R12IB3S-GSM2	R15IB3S-GSC3
Display				
Resolution	1024 x 600	1024 x 768	1024 x 768	1024 x 768
Panel Brightness	450 nits (Optional 800 nits)	350 nits (Optional 1000 nits)	500 nits (optional 1000 nits)	250 nits (optional 1000 nits)
Contrast Ratio	800:1 (Typ.)	1000:1 (Typ.)	700:1 (Typ.)	2000:1 (Typ.)
Active Area	222.72 (H) x 125.28 (V)	210.4 (H) x 157.8 (V)	245.16 (H) x 184.32 (V)	304.1 (H) x 228.1 (V)
Viewing Angle	-75~80 (H); -80~80 (V)	-88~88 (H); -88~88 (V)	-80~80 (H); -70~70 (V)	-88~88 (H); -88~88 (V)
Display Color	16.7M	16.2M	16.2M	16.2M
System				
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
System Memory	2GB DDR3L 1600 SODIMM (Max. 8GB)	2GB DDR3L 1600 SODIMM (Max. 8GB)	2GB DDR3L 1600 SODIMM (Max. 8GB)	2GB DDR3L 1600 SODIMM (Max. 8GB)
Storage	64GB mSATA SSD max. 512GB	64GB mSATA SSD max. 512GB	64GB mSATA SSD max. 512GB	mSATA SSD 64GB max. 512GB
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
Connectors				
USB	1 x USB 2.0 (M12 Type)	1 x USB 2.0 (M12 Type)	1 x USB 2.0 (M12 Type)	1 x USB 2.0 (M12 Type)
Ethernet	1 x 10/100/1000 LAN (M12 Type)	1 x 10/100/1000 LAN (M12 Type)	1 x 10/100/1000 LAN (M12 Type)	1 x 10/100/1000 LAN (M12 Type)
COM	1 x RS232 (M12 Type) (Optional 422/485)	1 x RS232 (M12 Type) (Optional 422/485)	1 x RS232 (M12 Type) (Optional 422/485)	1 x RS232 (M12 Type) (Optional 422/485)
Power	1 x Power Jack (M12 Type)	1 x Power Jack (M12 Type)	1 x Power Jack (M12 Type)	1 x Power Jack (M12 Type)
Audio				
Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker
Mechanical				
Dimensions	263.28 x 172 x 35.7 mm	252.4 x 198 x 43 mm	296.2 x 226.7 x 45.5 mm	363.4 x 277.8 x 45.2 mm
Cooling System	Fanless design	Fanless design	Fanless design	Fanless design
Mounting	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount
Operating Temp.	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C
Humidity	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
Power				
Power Input	9~36V DC	9~36V DC	9~36V DC	9~36V DC
AC Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC

Arm G-WIN GS Series Panel PC

G-WIN GS Series

Custom configuration

9-36V DC

Wide Power

Application

Straw Collector

"INTERACTIVE AND SMART TERMINAL FOR HEAVY-DUTY VEHICLE USE"

Tailored for those who are in demand of excellent in-vehicle computing systems operated in rugged environments that experience shock and vibration.

“SATISFY YOUR HEAVY-DUTY NEEDS.”

- 7”~15” PCAP touchscreen
- Arm Cortex-A9
- Android

M12 waterproof connectors
Tested MIL-STD-810G, MIL-STD-461F
Mounting solution for vehicle applications
Power ignition control
Full IP65 waterproof and dust proof
Wide operating temperature

Accessories

RS232 Cable	VGA Cable	USB Cable	Power Cable	Driver CD

Arm G-WIN GS Series Panel PC

Arm Cortex-A9

Model Name	7" (16:9)	10.1" (16:9)	10.4"	12.1"	15"
	W07FA3S-GSO1	W10FA3S-GSH1	R10FA3S-GST2	R12FA3S-GSM2	R15FA3S-GSC3
Display					
Resolution	1024 x 600	1024 x 600	1024 x 768	1024 x 768	1024 x 768
Panel Brightness	1000 nits	450 nits (Optional 800 nits)	350 nits (Optional 1000 nits)	500 nits (Optional 1000 nits)	250 (Optional 1000 nits)
Contrast Ratio	700:1 (Typ.)	800:1 (Typ.)	1000:1 (Typ.)	700:1 (Typ.)	2000:1 (Typ.)
Active Area	153.6 (W) x 90.0 (H)	222.72(H)x125.28(V)	210.4 (W) x 157.8 (H)	245.16 (W) x 184.32 (H)	304.1(H) x 228.1(V)
Viewing Angle	-75~75 (H); -75~70 (V)	-75~80 (H); -80~80 (V)	-88~88 (H); -88~88 (V)	-80~80 (H); -70~70 (V)	-88~88 (H); -88~88 (V)
Display Color	16.7M	16.7M	16.2M	16.2M	16.2M
System					
Processor	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)
System Memory	1GB LPDDR3 (Optional 2GB)	1GB LPDDR3 (Optional 2GB)	1GB LPDDR3 (Optional 2GB)	1GB LPDDR3 (Optional 2GB)	1GB LPDDR3 (Optional 2GB)
Storage	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
OS	Android 6.0 (Default) Ubuntu 16.04 (Optional)	Android 6.0 (Default) Ubuntu 16.04 (Optional)	Android 6.0 (Default) Ubuntu 16.04 (Optional)	Android 6.0 (Default) Ubuntu 16.04 (Optional)	Android 6.0 (Default) Ubuntu 16.04 (Optional)
Connectors					
USB	1 X USB 2.0 (M12 Type) 1 x USB OTG (On side)	1 x USB 2.0 (M12 Type) 1 x USB OTG (On side)	1 x USB2.0, 1 x USB OTG, 1 x Console (For Linux)	1 x USB 2.0 (M12 Type) 1 x USB OTG (On side)	1 x USB 2.0 (M12 Type) 1 x USB OTG (On Bottom)
Ethernet	1 x 10/100/1000 LAN (M12 type)	1 x 10/100/1000 LAN (M12 Type)	1 x 10/100/1000 Mbps (LAN)	1 x 10/100/1000 LAN (M12 Type)	1 x 10/100/1000 LAN (M12 Type)
COM	1 x RS232 (M12 type) (Optional 422/485)	1 x RS232 (M12 Type) (Optional 422/485)	1 x RS232 (M12 Type) (Optional 422/485)	1 x RS232 (M12 Type) (Optional 422/485)	1 x RS232 (M12 Type) (Optional 422/485)
SD Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
Power	1 x Power Jack (M12 Type)	1 x Power Jack (M12 Type)	1 x Power Jack (M12 Type)	1 x Power Jack (M12 Type)	1 x Power Jack (M12 Type)
Audio					
Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker
Mechanical					
Dimensions	189.4 x 145.4 x 39.8 mm	263.28 x 171 x 35.7 mm	252.4 x 198 x 43 mm	296.2 x 226.7 x 45.5 mm	363.4 x 277.8 x 45.2 mm
Cooling System	Fanless design	Fanless design	Fanless design	Fanless design	Fanless design
Mounting	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (100 x 100 mm), Panel Mount
Operating Temp	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C
Humidity	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
Power					
Power Input	9~24V DC	12V DC	12V DC	12V DC	12V DC
AC Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Certifications					
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

8.4” x86 Vehicle Mounted Computer

G-WIN VM Series

“ TOUGH. RUGGED. HEAVY DUTY. ”

- 8.4” with resistive touchscreen
- Intel® Celeron® N2930
- Windows 10/8/7

Aluminum housing with anti-corrosion treatments
IP65 waterproof and dustproof
Tested MIL-STD 810-G, MIL-STD 461-F
Compliance with EN50155
Operating temperature -10°C to 55°C

Custom configuration

9-36V DC

Wide Power

Application

Firefighter Truck

”DURABLE IN-VEHICLE COMPUTER.”

Winmate 15-inch panel PC was installed inside a firefighter truck for navigation purposes.

Accessories

RS232 Cable	VGA Cable	USB Cable	Power Cable	Driver CD

8.4" x86 Vehicle Mounted Computer

Intel® Celeron® N2930

Model Name	8.4" R08IB3S-VMU1
Display	
Resolution	800 x 600
Panel Brightness	600 nits
Contrast Ratio	600:1 (Typ.)
Active Area	170.4 (H) x 127.8 (V)
Viewing Angle	-75~75 (H); -60~70 (V)
Display Color	262,144 (6 bits/color)
System	
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
BIOS	AMI BIOS
Memory	1 x DDR3L 1600 MHz SO-DIMM Max. 8GB
Ethermet	Intel® I210-AT GbE LAN
Storage	mSATA SSD default 64G (Max. 512GB)
Expansion Slot	1 x Mini PCIe slot (For wireless module), 1 x Mini PCIe slot (For SATA SSD)
OS	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro Windows Embedded Standard 7 Windows 7 Pro for Embedded System
Connectors	
Serial Interface	1 x RS232/422/485 (Default RS232), 1 x RS232
USB	1 x USB 3.0, 1 x USB 2.0
LAN	2 x RJ45 10/100/1000
Power	1 x DC-in Jack (Phoenix type)
HDMI	1 x HDMI
Antenna	1 x WLAN antenna SMA on top (Optional)
Power	
Power Input	9~36V DC with isolation (Phoenix type) Optional 6~60V DC, with Ignition On/Off delay
AC Adapter	AC 110~240 V, Universal, ±10%
Certifications	
Safety	CE, FCC

Custom configuration

9-36V DC

Wide Power

Application

Cargo Forklift

"KEEP WAREHOUSE ECOSYSTEM RUNNING SMOOTHLY."

Go for the right technology that helps minimize errors, streamline ordering and inventory management, and improve operational efficiencies.

10.4" x86 Vehicle Mounted Computer

G-WIN VM Series

" TOUGH. RUGGED. HEAVY DUTY. "

- 10.4" with resistive touchscreen
- Intel® Core™ i5-7200U
- Intel® Celeron® N2930
- Windows 10/8/7

Aluminum housing with anti-corrosion treatments
IP65 waterproof and dustproof
Tested MIL-STD 810-G, MIL-STD 461-F
Compliance with EN50155
Operating temperature -10°C to 55°C

Accessories

RS232 Cable	VGA Cable	USB Cable	Power Cable	Driver CD

10.4” x86 Vehicle Mounted Computer

Intel® Core™ i5-7200U
Intel® Celeron® N2930




Model Name	10.4 R10IK3S-VMT2	10.4 R10IB3S-VMP1	10.4 R10IB3S-VMP3	10.4 R10IB3S-VMT2
Display				
Resolution	1024 x 768	800 x 600	640 x 480	1024 x 768
Panel Brightness	350 nits	600 nits	450 nits	350 nits
Contrast Ratio	1000:1 (Typ.)	400:1 (Typ.)	700:1 (Typ.)	1000:1 (Typ.)
Active Area	201.4 (H) x 157.8 (V)	211.2 (H) x 158.4 (V)	211.2 (H) x 158.4 (V)	201.4 (H) x 157.8 (V)
Viewing Angle	-88~88 (H); -88~88 (V)	-70~70 (H); -70~60 (V)	-80~80 (H); -80~60 (V)	-88~88 (H); -88~88 (V)
Display Color	16.2M (6 bits+FRC)	16.2M (8 bits/color)	16.2M (8 bits/color)	16.2M (6 bits+FRC)
System				
Processor	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
BIOS	Insyde BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Memory	1 x DDR4 2133 MHz SO-DIMM (Default 4GB, Max. 16GB)	1 x DDR3L 1600 MHz SO-DIMM Max. 8GB	1 x DDR3L 1600 MHz SO-DIMM Max. 8GB	1 x DDR3L 1600 MHz SO-DIMM Max. 8GB
Ethermet	Intel® I211-AT GbE	Intel® I210-AT GbE LAN	Intel® I210-AT GbE LAN	Intel® I210-AT GbE LAN
Storage	M.2 SSD (Default 64GB, Max.512GB)	mSATA SSD default 64GB Max. 512GB	mSATA SSD default 64GB Max. 512GB	mSATA SSD default 64GB Max. 512GB
Expansion Slot	M.2 E Key for WLAN	1 x Mini PCIe slot (For wireless module) 1 x Mini PCIe slot (For SATA SSD)	1 x Mini PCIe slot (For wireless module) 1 x Mini PCIe slot (For SATA SSD)	1 x Mini PCIe slot (For wireless module) 1 x Mini PCIe slot (For SATA SSD)
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro Windows Embedded Standard 7 Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro Windows Embedded Standard 7 Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro Windows Embedded Standard 7 Windows 7 Pro for Embedded System
Connectors				
Serial Interface	1 x RS232/422/485 (Default RS232), 1 x RS232	1 x RS232/422/485 (Default RS232), 1 x RS232	1 x RS232/422/485 (Default RS232), 1 x RS232	1 x RS232/422/485 (Default RS232), 1 x RS232
USB	2 x USB 3.0	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0
LAN	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Power	1 x DC Jack (Phoenix type)	1 x DC Jack (Phoenix type)	1 x DC Jack (Phoenix type)	1 x DC Jack (Phoenix type)
HDMI	1 x HDMI	1 x HDMI	1 x HDMI	1 x HDMI
Antenna	WLAN antenna SMA in top (Optional)	1 x WLAN antenna SMA on top (Optional)	1 x WLAN antenna SMA on top (Optional)	1 x WLAN antenna SMA on top (Optional)
Power				
Power Input	9~36V DC with Isolation (Phoenix type) Optional 6~60V DC, with Ignition On/Off delay	9~36V DC with Isolation (Phoenix type) Optional 6~60V DC, with Ignition On/Off delay	9~36V DC with Isolation (Phoenix type) Optional 6~60V DC, with Ignition On/Off delay	9~36V DC with Isolation (Phoenix type) Optional 6~60V DC, with Ignition On/Off delay
AC Adapter	AC +110~240 V, Universal, ±10%	AC +110~240 V, Universal, ±10%	AC +110~240 V, Universal, ±10%	AC +110~240 V, Universal, ±10%
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC

Custom configuration

9-36V DC

Wide Power

Application

Tractor

"COMPACT, YET RUGGED."

Minimizes obstructions to road visibility in a compact form factor that does not block the drivers' view.

12.1" x86 Vehicle Mounted Computer

G-WIN VM Series

"TOUGH. RUGGED. HEAVY DUTY."

- 12.1" with resistive touchscreen
- Intel® Celeron® N2930
- Windows 10/8/7

Aluminum housing with anti-corrosion treatments
IP65 waterproof and dustproof
Tested MIL-STD 810-G, MIL-STD 461-F
Compliance with EN50155
Operating temperature -10°C to 55°C

Accessories

RS232 Cable	VGA Cable	USB Cable	Power Cable	Driver CD

12.1” x86 Vehicle Mounted Computer

Intel® Celeron® N2930

Model Name	12.1” (16:10) W12IB3S-VMM9
Display	
Resolution	1280 x 800
Panel Brightness	400 nits
Contrast Ratio	1000:1 (Typ.)
Active Area	261.12 (H) x 163.2 (V)
Viewing Angle	-88~88 (H); -88~88 (V)
Display Color	262.144 (6 bits/color)
System	
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
BIOS	AMI 16 Mbit Flash BIOS
Memory	1 x DDR3L 1600 MHz SO-DIMM Max. 8GB
Storage	mSATA SSD default 64GB (Max. 512GB)
OS	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro Windows Embedded Standard 7 Windows 7 Pro for Embedded System
Connectors	
Serial Interface	1 x RS232, 1 x RS232/422/485 (Default RS232)
USB	1 x USB 3.0, 1 x USB 2.0
LAN	2 x RJ45 10/100/1000
Power	1 x Terminal Block
HDMI	1 x HDMI
CAN Bus	1 x LAN Bus (Optional)
Digital I/O	1 x Digital I/O (Optional)
Antenna	1 x WLAN or WWAN Antenna in top (Optional)
Power	
Power Input	9~36V DC with Isolation (Phoenix type) Optional 6~60V DC, with Ignition On/Off delay
AC Adapter	AC 110~240 V, Universal, ±10%
Certifications	
Safety	CE, FCC

Custom configuration

9-36V DC

Wide Power

Application

Log Loader

"RUGGED, HIGH-PERFORMANCE VEHICLE-MOUNTED TERMINAL."

The device is installed inside a log loader to boost productivity and help forest equipment operators work more efficiently.

15" x86 Vehicle Mounted Computer

G-WIN VM Series

"TOUGH. RUGGED. HEAVY DUTY."

- 15" with resistive touchscreen
- Intel® Core™ i5-7200U
- Intel® Celeron® N2930
- Windows 10/8/7

Aluminum housing with anti-corrosion treatments
IP65 waterproof and dustproof
Tested MIL-STD 810-G, MIL-STD 461-F
Compliance with EN50155
Operating temperature -10°C to 55°C

Accessories

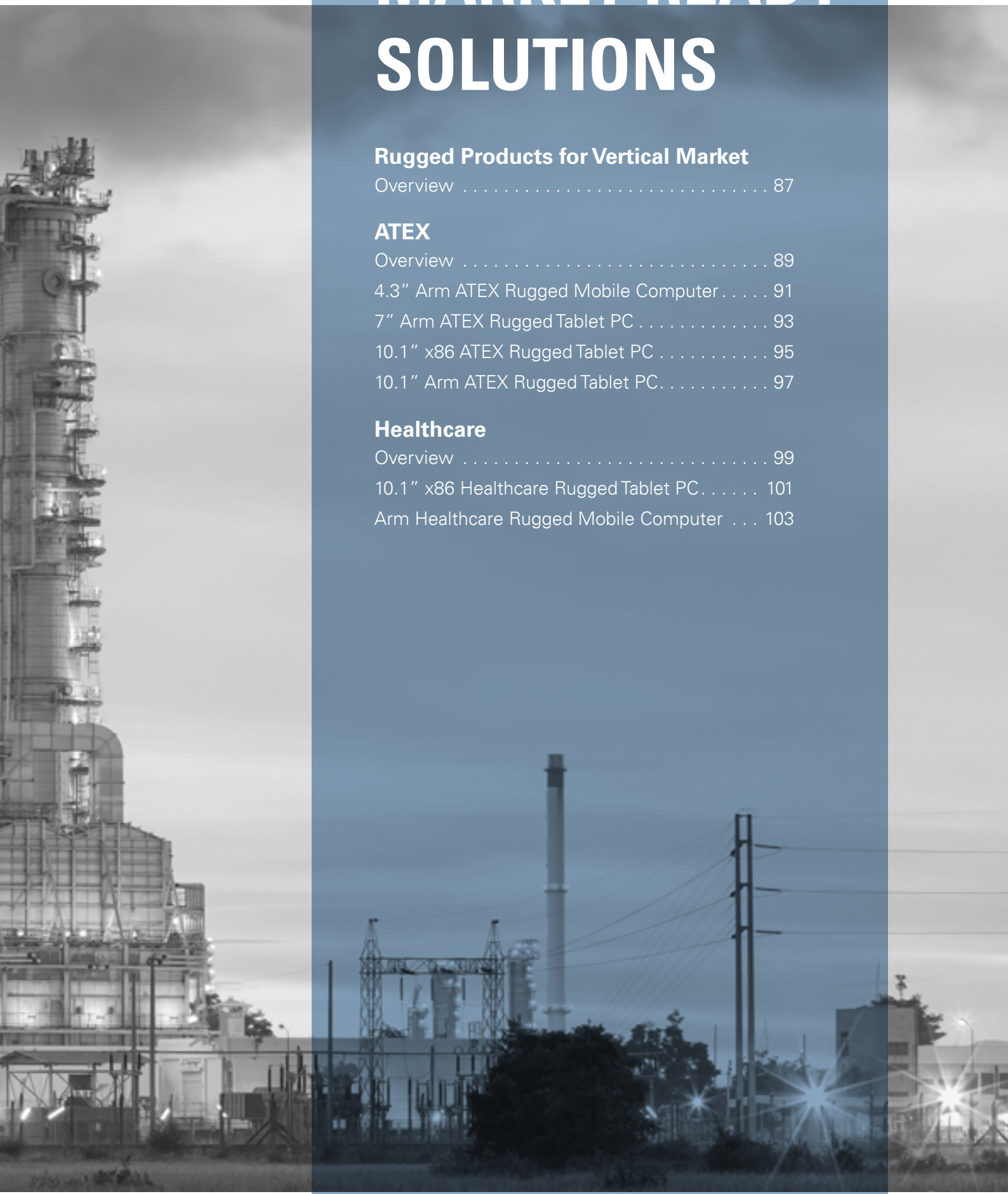
RS232 Cable	VGA Cable	USB Cable	Power Cable	Driver CD

15” x86 Vehicle Mounted Computer

Intel® Core™ i5-7200U
Intel® Celeron® N2930

Model Name	15” R15IK3S-VMC3(HB)	15” R15IB3S-VMC3(HB)
Display		
Resolution	1024 x 768	1024 x 768
Panel Brightness	300 nits (Optional for 1000 nits)	300 nits (Optional for HB 1000 nits)
Contrast Ratio	2000:1 (Typ.)	2000:1 (Typ.)
Active Area	304.128 (H) x 228.096 (V)	304.1 (H) x 228.1 (V)
Viewing Angle	-88~88 (H); -88~88 (V)	-88~88 (H); -88~88 (V)
Display Color	16.2M, 8 bits	16.2M, 8 bits
System		
Processor	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
BIOS	Insyde BIOS	AMI BIOS
Memory	1 x DDR4 2133 MHz SO-DIMM (Default 4GB, Max. 16GB)	1 x DDR3L 1600 MHz SO-DIMM Max. 8GB
Storage	M.2 SSD default 64GB (Max.512GB)	mSATA SSD default 64GB (Max. 512GB)
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro Windows Embedded Standard 7 Windows 7 Pro for Embedded System
Connectors		
Serial Interface	1 x RS232, 1 x RS232 (Optional) 1 x RS232/422/485 (Default RS232)	1 x RS232, 1 x RS232 (Optional), 1 x RS232/422/485 (Default RS232)
USB	2 x USB 3.0	1 x USB 3.0, 1 x USB 2.0
LAN	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Power	1 x Terminal Block	1 x Terminal Block
HDMI	1 x HDMI	1 x HDMI
CAN Bus	1 x CAN Bus (Optional)	1 x CAN Bus (Optional)
Digital I/O	1 x Digital I/O (Optional)	1 x Digital I/O (Optional)
Power		
Power Input	9~36V DC (Phoenix type) with Isolation Optional 6~60V DC, with Ignition On/Off delay	9~36V DC (Phoenix type) with Isolation Optional 6~60V DC, with Ignition On/Off delay
AC Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Certifications		
Safety	CE, FCC	CE, FCC

MARKET READY SOLUTIONS



Rugged Products for Vertical Market

ATEX

Healthcare

Rugged Products for Vertical Market

Overview

For enterprises operating in rugged or potentially hazardous environments, access to the latest technology built specifically for these demanding industries is imperative. Winmate understands the need for ruggedness and uninterrupted productivity when it comes to operating in challenging environments.

At Winmate, we have the engineering expertise and strategic partnerships with technology companies to provide customers the leading edge in industrial-grade communications tools that maximize operational efficiency, safety, asset tracking and data management.

Our engineering process and in-depth knowledge of electrical, mechanical, thermal, and firmware design ensures optimized performance, durability and reliability with every rugged product we create. At Winmate, our technologies undergo a battery of tests at our in-house, state-of-the-art testing facility to verify the performance.

Winmate's products for vertical markets include:

- Compliance to international standards
- The latest Android™, Windows® operating system
- The most innovative product know-how

Winmate provides rugged computing solutions for demanding industries, including ATEX, Healthcare, Marine and Military.

Technology

Testing & Certifications

To meet the safety qualification, Winmate offers ATEX and Class 1 Division 2 (C1D2) certified solutions for maintaining safe operations and collecting detailed, sensitive data in remote rig and pipeline locations.

For the classification of the equipment, Winmate generally uses both the North American National Electric Code (NEC) and the European ATEX directive.

ATEX

Certified for harsh environments

- Intrinsic safety schematics design
- Non-spark safety design
- No-air potting process
- UL and CSA certified factory with Quality Management System (QMS)

Healthcare

- Right technology to improve patient care
- Super-high ESD protection
- Excellent RS immunity
- Super-low current leakage
- Low surface temperature

Product Guide - Products for Vertical Market

Our product guide helps you to navigate and find the right product from our excessive product line.

ATEX				Healthcare	Arm Healthcare Rugged Mobile Computer
					
E430RM4L-EX	M700DM8-EX	M101S-EX	M101Z	M101P-ME	Healthcare Series
p.91	p.93	p.95	p.97	p.101	p.103

ATEX

Overview

Oil rigs and remote pipeline locations are some of the most dangerous and challenging work environments anywhere. When looking for electronics to support these environments, devices must stand up to three key requirements:

1. Provide advanced system monitoring even in the most challenging conditions.
2. Accurately identify and track assets and communicate data from remote sites.
3. Withstand the highest scrutiny of certification and inspection.

Winmate rugged computers are designed for the harsh environments of an oil refinery or a drilling rig and come with ATEX Zone 2 and Class 1 Division 2 (C1D2) certifications. By employing automated processes, oil and gas companies can increase the number of production wells, improve production control and reap the benefits of modern technologies.

ATEX

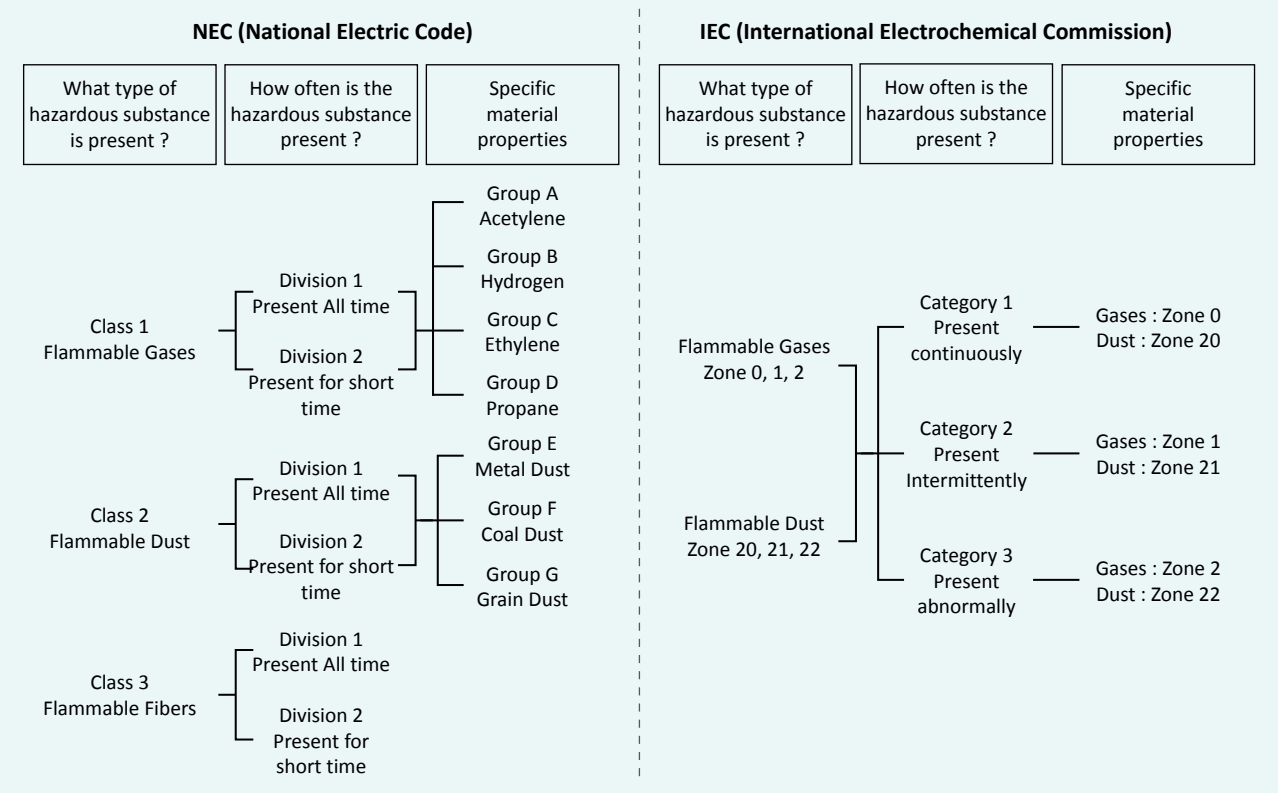
Technology

Testing & Certifications

To meet the safety qualification, Winmate offers ATEX and Class 1 Division 2 (C1D2) certified solutions for maintaining safe operations and collecting detailed, sensitive data in remote rig and pipeline locations.

For the classification of the equipment, Winmate generally uses both the North American National Electric Code (NEC) and the European ATEX directive.

NEC and IEC Certifications



Custom configuration

Barcode Reader

HF RFID Reader

Additional Storage

Application

Exploration & Production Company

"MADE FOR HAZARDOUS-AREA APPLICATIONS, WITH ALL YOUR NEEDS CONSIDERED."

The device improves ease of use to mobile workers in industries with hazardous areas to help maximum performance and uncompromising safety.

4.3" Arm ATEX Rugged Mobile Computer

E430 Series

"RUGGED & COMPACT. IDEAL FOR FIELD WORK."

- 4.3" 800 x 480 PCAP touchscreen
- Arm Cortex-A53
- Android 7.0

2MP webcam front camera
8MP rear camera
WWAN, Wi-Fi, Bluetooth, GPS
260g lightweight portability
USB OTG
3.7V 3900mAh Li-Poly removable battery
IP65 waterproof and dustproof
MIL-STD-810G shock, vibration and drop resistance
ATEX Zone 2 and C1D2
Operating temperature -10°C to 50°C

Accessories

Standard			
Universal USB Adapter	Micro USB Cable	Micro SD Card 16GB	Hand Strap
Optional			
Charging Dock	Battery Charging Dock	Vehicle Charging Dock	Battery
Lanyard	Micro USB Host Cable (OTG Cable)	UHF RFID Reader	

4.3” Arm ATEX Rugged Mobile Computer

Arm Cortex-A53

ATEX Zone 2 and C1D2

Model Name	4.3”
	E430RM4L-EX
Display	
Resolution	800 x 480
Panel Brightness	400 nits
Contrast Ratio	800:1 (Typ.)
Touch	PCAP touchscreen
System	
Processor	Arm Cortex-A53 (Quad-core 1.3 GHz)
Memory	2GB SDRAM
Storage	16GB eMMC (Up to 32GB), Micro SD Card (Up to 32GB)
OS	Android 7.0
Wireless Communications	
WLAN	802.11 a/b/g/n
Bluetooth	Bluetooth 4.0
WWAN	Optional 4G LTE
GPS	Built-in GPS
Connectors	
Connectors	Micro SIM Card Slot, Micro SD Card Slot, USB OTG, Pogo Pin
Audio	
Audio	Mic, Earphone,1.2W Speaker
User Controls	
Buttons	Volume - +, Power, Function Home, Menu, ESC, Search
LED Indicators	1 x LED Indicator
Sensors	Light, Proximity, G-sensor, Digital Compass
Mechanical	
Dimensions	132.57 x 81.87 x 27.4 mm
Net Weight	260g
Environment	
Operating Temp.	-10°C to 50°C
Humidity	10% to 95% (Non-condensing, RH)
IP Rating	IP65
Shock	MIL-STD-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I
Drop	MIL-STD-810G Method 516.6, 4 ft, Free to concrete
Power Considerations	
Adapter	5V/1A, USB
Battery	3.7V 3900mAh Li-Poly
Battery Operating Time	20 Hr
Data Capture	
Camera	Rear: 8MP camera, Front: 2MP camera
Barcode	Motorola SE4500 (Optional)
RFID	HF RFID Reader (Optional)
NFC	Read / Write, Peer to Peer
Certifications	
Safety	CE, FCC, CCC

Custom configuration

Barcode Reader

Battery Hotswap

Application

Production of Pharmaceutical Products

"SMART MOBILITY FOR HAZARDOUS LOCATIONS."

Enables greater efficiency, worker safety, group communications and collaboration across some of the worlds most harsh and hazardous locations.

7" Arm ATEX Rugged Tablet

M700 Series

"COMPACT. VIBRATION RESISTANT."

- 7" 1280 x 720 PCAP touchscreen
- Arm Cortex-A53
- Android 7.0

2MP webcam, 8MP rear camera
2GB RAM, 16GB eMMC
Wi-Fi, Bluetooth, GPS, GLONASS
Up to 20 hours battery operating time
IP65 waterproof and dustproof
MIL-STD-810G shock, vibration and drop resistant
ATEX Zone 2 and C1D2
Operating temperature -10°C to 50°C

Accessories

Standard				
Universal Adapter	Battery			
Optional				
Battery Charging Dock	Vehicle Dock	Desk Dock	Handstrap	Carry Bag
Micro SD Card	Capacitive Touch Stylus	Mobile Printer	Vehicle Adapter	

7” Arm ATEX Rugged Tablet

Arm Cortex-A53

ATEX Zone 2 and C1D2

Model Name	7” (16:9)
	M700DM8-EX
Display	
Resolution	1280 x 720
Panel Brightness	650 nits
Contrast Ratio	500:1 (Typ.)
Sensors	G-sensor, light sensor
Touch	PCAP touchscreen
System	
Processor	Arm Cortex-A53 (Octa-core 1.3 GHz)
Memory	2GB DDR3 SDRAM
Storage	16GB eMMC
OS	Android 7.0
Wireless Communications	
WLAN	802.11 a/b/g/n
Bluetooth	Bluetooth 4.0, Support BLE mode + wide-band speech
WWAN	Optional 4G LTE
GNSS	GPS / AGPS / GLONASS
Connectors	
Connectors	1 x USB OTG, 1 x 2.5Ø 5V DC Power Input, 1 x Micro SIM Card Slot, 1 x Micro SD Card Slot
Audio	
Audio	1 x 1.2W Speaker, 2 x Microphone, 1 x Headset jack (Mic+Earphone)
User Controls	
Buttons	1 x Power Button, 2 x Volume Key, 1 x Home, 1 x Menu, 1 x Return, 1 x Search
LED indicator	Power, Battery
Mechanical	
Dimensions	212.4 x 132.8 x 19 mm
Net Weight	550g
Environment	
Operating Temp.	-10°C to 50°C
Humidity	5% to 95% (Non-condensing, RH)
IP Rating	IP65
Shock	MIL-STD-810G M516.6
Vibration	MIL-STD-810G M514.6
Drop	MIL-STD-810G M516.6 5 ft, Free to concrete
Power	
Power Input	5V DC
Battery	3.7V 5300mAh Li-Poly
Adapter	100-240V/ 5V 3A Adapter
Data Capture	
Camera	Front: 2MP Camera, Rear: 8MP Camera with LED auxiliary light with autofocus
Barcode	Motorola SE4500 1D/2D Barcode Reader (Optional)
NFC	NFC (Read/Write, Peer to Peer mode)
Certifications	
Safety	CE, FCC, CCC

10.1" x86 ATEX Rugged Tablet

M101S-EX Series

"ROBUST TABLET TO WITHSTAND INDUSTRIAL USE."

- 10.1" 1920 x 1200 PCAP touchscreen
- Intel® Core™ i5-7200U
- Windows 10 IoT Enterprise

2MP webcam front camera
8MP rear camera with autofocus with LED flash
Glove/ Rain/ Stylus mode, support active pen
Wi-Fi, Bluetooth 5.0, GPS, GLONASS
USB 3.0 Type-A, USB 3.0 Type-C
IP65 waterproof and dustproof
MIL-STD-810G shock, vibration and drop resistance
ATEX Zone 2 and C1D2
Operating temperature -10°C to 50°C
Sunlight readable with anti-glare solution

Accessories

Standard				
Adapter and Power Cord	Capacitive Stylus	Standard Battery		
Optional				
Smart Card Reader (M101P)	Vehicle Dock (Without VGA output)	Vehicle Cradle	Battery Charger	Desk Dock
High Capacity Battery	Hand Strap	UHF RFID Reader	VESA Mount Kit	Shoulder Strap
Carry Bag	Micro HDMI Cable	Vehicle Charger		

Custom configuration

4G LTE

AR & AG Screen

Micro SD Card Slot

Barcode Reader

HF RFID Reader

Micro HDMI Port

High Capacity Battery 16hr

Application

Oil Refinery Plant

"DESIGNED FROM THE INSIDE OUT TO BE DURABLE FOR USE IN EXPLOSIVE ATMOSPHERE."

A highly mobile rugged tablet is necessary, that won't break down during mission-critical tasks where hardware failures could lead to large costs or endanger workers and assets.

10.1" x86 ATEX Rugged Tablet

Intel® Core™ i5-7200U

ATEX Zone 2 and C1D2

Model Name	10.1"
	M101S-EX
Display	
Resolution	1920 x 1200
Panel Brightness	800 nits
Contrast Ratio	800:1 (Typ.)
Viewing angle	-85~85 (H) ; -85~85 (V)
Touch	PCAP touchscreen
System	
Processor	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
Memory	4GB DDR4 SDRAM (Up to 16GB)
Storage	128GB SSD (Up to 512GB)
OS	Windows 10 IoT Enterprise
Wireless Communications	
WLAN	802.11 a/b/g/n/ac WiFi
Bluetooth	Bluetooth 5.0
WWAN	Optional 4G LTE
GNSS	GPS, GLONASS
Connectors	
Connectors	1 x Micro HDMI, 1 x USB 3.0 (Type-A), 1 x USB 3.0 (Type-C), 1 x Audio Combo Conn. (Mic in or Line Out), 1 x Power Jack, 1 x Micro SD Card Slot, 1 x Micro SIM Card Slot, 1 x Mini PCIe for WWAN Module,
Audio	
Audio	2 x Built-in Digital Mic with Noise Cancellation, 2 x 1W Speaker
User Controls	
Buttons	1 x Power, 1 x Menu/Home, 2 x Programmable Function Keys, 2 x Volume or Panel Brightness
LED Indicator	Power, Battery, HDD, RF
Mechanical	
Dimensions	271.8 x 197.2 x 21 mm
Net Weight	1.25 kg (2.75 lbs)
Environment	
Operating Temp.	-20°C to 60°C (AC mode), -10°C to 50°C (Battery mode)
Humidity	10% to 90% (Non-condensing, RH)
IP Rating	IP65
Shock	MIL-STD-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I
Drop	MIL-STD-810G Method 516.6, 4 ft to concrete
Power	
Power Input	12~19V DC
Battery	7.4V, typ. 5140mAh Li-Polymer Battery (2S1P) 7.4V, typ. 10280mAh Li-Polymer Battery (2S2P, Optional)
AC Adapter	100~240V, 50-60Hz/19V DC
Data Capture	
Camera	Front: 2MP, Rear: 8MP with LED flash
Integrated	Optional 1D/2D Barcode Reader Optional HF RFID Reader
Add-on Module	-
Certifications	
Safety	CE, FCC

Custom configuration

AR & AG Screen

Additional Storage

Application

Maintenance and Repair Service

"DO MORE IN THE FIELD."

A combination of ruggedness, mobile computing, and communication capabilities that empowers your mobile workforce with the right solution for getting the field services done efficiently, from resource allocation, operation streamlining, field personnel management, to work status tracking and more!

10.1" Arm ATEX Rugged Tablet

M101Z Series

"LIGHTWEIGHT MOBILITY FOR USE IN ANY INDUSTRY."

- 10.1" 1920 x 1200 PCAP touchscreen
- Qualcomm® Snapdragon™ 660
- Android 9.0

8MP front camera
13MP rear camera
Wi-Fi, Bluetooth, GPS, AGPS
IP65 waterproof and dustproof
MIL-STD-810G shock, vibration and drop resistant
ATEX Zone 1 and C1D2
Operating temperature -10°C to 50°C

Accessories

Standard				
Adapter and Power Cord	Capacitive Stylus	Standard Battery		
Optional				
Desk Dock	Vehicle Dock	Vehicle Cradle	Battery Charger	Active Pen
Hand Strap	VESA Mount Kit	Carry Bag	Mobile Printer	

10.1" Arm ATEX Rugged Tablet

Qualcomm® Snapdragon™ 660

Q4, 2020
ATEX Zone 1 and C1D2

Model Name	10.1"
	M101Z
Display	
Resolution	1920 x 1200
Panel Brightness	800
Contrast Ratio	800:1
Viewing angle	85/85/85/85
Touch	PCAP touchscreen
System	
Processor	Qualcomm® Snapdragon™ 660 (Octa-core up to 2.2 GHz)
Memory	3GB
Storage	32GB eMMC
OS	Android 9.0
Wireless Communications	
WLAN	802.11 a/b/g/n/ac Wi-Fi
Bluetooth	Bluetooth 5.0
WWAN	Support Sierra MC7455
GPS	GPS / AGPS
Connectors	
Connectors	1 x USB Type-C (OTG)
User Controls	
Buttons	1 x Power, 1 x Home, 1 x Back, 1 x Menu, 1 x Volume Up 1 x Volume Down
LED Indicator	Power, Charging Indicator
Environment	
Operating Temp.	-10°C to 50°C
Humidity	10 to 95% (Non-condensing, RH)
IP Rating	IP65
Shock	MIL-STD-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I
Drop	MIL-STD-810G Method 514.6 Procedure I, 4 ft. to concrete
Power	
Battery	8Hrs
Adapter	100~240 AC to DC out Power Adapter
Data Capture	
Camera	Front: 8MP Camera, Rea: 13MP Camera
RFID	NFC Reader
Certifications	
Safety	CE, FCC, ATEX Zone1, C1D1

Healthcare

Overview

Technology has long played an imperative role in streamlining hospital operations and improving patient care. In hospital environments, performance, reliable and accurate image reproduction are imperative. From medical images to patient data, the hospital environment is a complex ecosystem that requires advanced technology to keep it running smoothly.

Our medical solutions include:

- Surgical and clinical display
- Medical tablet computer
- Durable design and the latest operating systems

Expand your medical and healthcare business with the Winmate. As a technology solutions leader, Winmate values our partners. As a partner, you are a vital instrument in ensuring the customer needs are understood and that their expectations are exceeded every time. Our commitment to you and our passion for working as a team to create mutual success is the reason we have created a solid partnership program that works.

Healthcare

Technology

Certification & Quality Approvals

Winmate developed and implemented a quality management system based on a process management approach which has demonstrate its ability to provide consistent products that meet customer and applicable regulatory requirements, and to address customer satisfaction through the effective application of the system, including continual improvement and the prevention of non-conformity. The quality system complies with the international standard ISO 9001:2008 and the standards which apply to related industries

ISO 9001 ISO 14001	IECQ QC080000	ISO 13485
		

Winmate achieved ISO 13485:2016 and EN ISO 13485:2016 certification for its' design, development, production, installation, and servicing of medical devices. What does this mean for you? Winmate's certification confirms any portable panel PCs and mobile tablets we develop for use in the medical industry are safe and meet all regulatory design requirements.

This achievement will also enable Winmate to expand its medical-related product line, and create new opportunities for our original design manufacturer (ODM), original equipment manufacturer (OEM), and rebranding partners.

10.1” x86 Healthcare Rugged Tablet PC

Healthcare Series

Custom configuration

- 4G LTE
- Barcode Reader
- HR RFID Reader
- High Capacity Battery 16hr
- Additional Memory
- Additional Storage

“ **DROP RESISTANT. MOBILE. RUGGED.** ”

- 10.1” 1920 x 1200 PCAP touchscreen
- Intel® Pentium® N4200
- Windows 10 IoT Enterprise
- Certified IEC 60601-1, 60601-1-2

ISO 13485 certification
Wi-Fi, Bluetooth, GPS
IP65 waterproof and dustproof
High flexibility for customized requests
Operating temperature 0 to 35°C

Application

Patient Monitoring

”INSTANTLY ACCESS AND KEEP PATIENT RECORDS.”

Winmate 10.1-inch medical tablet was installed in front of hospital bed for monitoring.

Accessories

AC Adapter	Power Cable	Desk Dock	Vehicle Dock	Carry Bag/Handstrap

10.1" x86 Healthcare Rugged Tablet PC

Intel® Pentium® N4200

Model Name	10.1"
	M101P-ME
Display	
Resolution	1920 x 1200
Panel Brightness	600 nits
Contrast Ratio	800:1 (Typ.)
Touch	PCAP touchscree
Sensors	Light sensor, G sensor, Gyro, E-compass
System	
Processor	Intel® Pentium® N4200 (2M Cache, up to 2.5 GHz)
Memory	4GB SODIMM LPDDR4 4GB (Up to 8GB)
Storage	64GB solid state drive (M.2 SSD) Optional up to 512GB
OS	Windows 10 IoT Enterprise
Wireless Communications	
WLAN	802.11 a/b/g/n/ac
Bluetooth	Bluetooth 5.0
GNSS	GPS, GLONASS
Connectors	
External I/O	1 x Micro HDMI (Optional), 1 x USB 3.0, 1 x Audio Combo Conn (Mic in/Lin out), 1 x Power Jack, 1 x Micro SD Slot, 1 x USB 3.0 Type-C
Control Buttons	On-screen QWERTY keyboard Button 1 x power, 1 x Home, 2 x volume key, 2 x function key (Programmable function key configured by Hottab Utility)
LED Indicator	Power, Battery, HDD, RF
Audio	1 x Audio Combo connector (Mic in or Line Out)
Mechanical	
Dimensions	271.8 x 197.2 x 19 mm (10.7 x 7.76 x 0.75 inches)
Net Weight	1.2 kg (2.7 lbs) with standard battery, 1.4 kg (3.1 lbs) with optional high capacity battery
Housing	Rugged housing enhanced with antimicrobial properties
Operating Temp.	0°C to 35°C
Humidity	10% to 90% (Non-condensing, RH)
IP Rating	IP65 certified, Dustproof and waterproof
Shock	MIL-STD-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I
Drop	MIL-STD-810G Method 516.6, 4 ft to concrete
Power	
Power Input	12~19V DC
Battery	7.7V, typ. 5900mAh Li-Polymer Battery (2S1P) 7.4V, typ. 10280mAh Li-Polymer Battery (2S2P, optional)
Battery Operating Time	Std. Battery: 8 hours
Adapter	100~240V, 50~60Hz/19V DC
Data Capture	
Camera	8MP with autofocus camera with LED flash at rear 2MP camera at front
RFID	HF RFID reader 13.56 MHz (Optional)
Barcode	1D/2D Barcode Reader (Optional)
Certifications	
Safety	CE, FCC
Medical	IEC 60601-1, IEC 60601-1-2, EN 60601-1, ANSI/AAMI ES 60601-1

Custom configuration

4G LTE

3G

Barcode Reader

HR RFID Reader

Application

Patient Monitoring

"INSTANTLY ACCESS AND KEEP PATIENT RECORDS."

Winmate 10.1" medical tablet was installed in front of hospital bed for monitoring.

Arm Healthcare Rugged Mobile Computer

Healthcare Series

"DROP RESISTANT. MOBILE. RUGGED."

- 5"~7" PCAP touchscreen
- Arm Cortex-A53
- ISO 13485:2016 certified
- Android

ISO 13485 certificates
Wi-Fi, Bluetooth, GPS, WWAN
IP65 waterproof and dustproof
MIL-STD-810G Shock and vibration resistance
High flexibility for customized requests
Operating temperature -10 to 50°C

Accessories

AC Adapter	Power Cable	Desk Dock	Vehicle Dock	Carry Bag/Handstrap

Arm Healthcare Rugged Mobile Computer

Arm Cortex-A53

Model Name	5"	7"
	E500RM8-ME	M700DM8-ME
Display		
Resolution	1280 x 720	1280 x 720
Panel Brightness	500 nits	650 nits
Contrast Ratio	800:1 (Typ.)	500:1 (Typ.)
Touch	PCAP touchscree	PCAP touchscree
Sensors	Light Sensor, Proximity Sensor, G-sensor, Digital Compass	Light Sensor, Proximity Sensor, G-sensor, Digital Compass
System		
Processor	Arm Cortex-A53 (Octa-core 1.3 GHz)	Arm Cortex-A53 (Octa-core 1.3 GHz)
Memory	2GB SDRAM	2GB Mobile DDR2
Storage	16GB eMMC, External Micro SD Card (Up to 32G)	16GB eMMC, External Micro SD Card (Up to 32G)
OS	Android 7.0	Android 7.0
Wireless Communications		
WLAN	802.11 a/b/g/n	802.11 a/b/g/n
Bluetooth	Bluetooth 4.0	Bluetooth 4.0
WWAN	Optional 3G/4G LTE	Optional 3G/4G LTE
GPS	Built-in GPS module	Built-in GPS module
Connectors		
External I/O	2 x Micro SIM Card Slot, 1 x Micro SD Card Slot, 1 x USB OTG, 1 x Power Jack, 1 x Docking Connector	1 x USB OTG, 1 x Headset jack (Mic+Earphone), 1 x 2.5Ø 5V DC Power Input, 1 x Micro SIM Card Slot, 2 x Microphones, 1 x Micro SD Card Slot
User Controls		
Control Buttons	1 x Volume - +, 1 x Power button, 2 x Function button, 4 x Front Key	1 x Power Button, 2 x Volume Key, 1 x Home, 1 x Menu, 1 x Return, 1 x Search
LED Indicator	1 x LED indicator	Power/Battery indicator
Audio	2 x Built-in Mic, 1 x Earphone, 1 x 1.2W Speaker	1 x 1.2W Speaker
Mechanical		
Dimensions	85.9 x 163.2 x 22.5 mm	212.4 x 132.8 x 19 mm
Net Weight	315g	550g
Operating Temp.	-20°C to 60°C (AC Mode) -10°C to 50°C (Battery Mode)	-20°C to 60°C (AC Mode), -10°C to 50°C (Battery Mode)
Humidity	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
IP Proof	IP65	IP65
Shock	MIL-STD-810G Method 516.6 Procedure I	MIL-STD-810G Method 516.5
Vibration	MIL-STD-810G Method 514.6 Procedure I	MIL-STD-810G Method 514.5
Drop	MIL-STD-810G Method 516.6, 4 ft, Free to concrete	MIL-STD-810G Method 516.5 4 ft, Free to concrete
Power		
AC Adapter	5V 2A Adapter	100~240V, 50~60Hz, 5VDC
Battery	3.7V 3900mAh Li-ion removable battery	Li-Polymer Battery 5300mAh
Battery Operating Time	20 hrs	20 hrs
Data Capture		
Barcode	Motorola SE4500 1D/2D Barcode Reader	Motorola SE4500 1D/2D Barcode Reader
NFC	NFC (Read/Write, Peer to Peer mode)	NFC (Read/Write, Peer to Peer mode)
Camera	Rear: 8MP Camera with LED auxiliary light with autofocus Front: 2MP Camera	Rear: 8MP Camera with LED auxiliary light with autofocus Front: 2MP Camera
Certifications		
Safety	CE, FCC, CCC	CE, FCC, CCC

WINMATE

HQ

Winmate Inc.
9F, No.111-6, Shing-De Rd.,
San-Chung District,
New Taipei City 24158, Taiwan
Tel +886-2-8511-0288
E-mail sales@winmate.com.tw
Website www.winmate.com

USA

Winmate US Inc.
2640 Mathews Street,
Smyrna, GA 30080, USA
Tel +1-770-274-3381
E-mail NASales@winmate.com.tw
Website www.winmate-rugged.com

CA

TTX Canada Inc.
150 Werlich Drive, Units 5&6
Cambridge, Ontario, N1T 1N6
Canada
Tel +1-519-621-1881
E-mail Sales@ttx.ca
Website www.ttx.ca

CH

北京京融电自动化科技有限公司
Room 204, Building A, Floor 2,
Building 1-1, No. 1,
Shangdi Information Road,
Haidian District, Beijing
Tel +86-10-82743702
E-mail sales@winmate.com.cn
Website www.winmate.com.cn