



2025 — 2026 Edition

DIGITAL SIGNAGE PLAYERS



iBASE
www.ibase.com.tw

Table of Contents

About IBASE	3-5
Observer Connect Introduction	6-7
IBASE Sole Technologies	8-9
Digital Signage Applications	10-11
Strategic Software Partners	12
Signage Player Selection Guide	13
Comparison Table	14-20

Extreme Performance Video Wall Signage Player

NEW SI-636	13th/12th Gen Intel® Core™ Processors (Raptor Lake-P / Alder Lake-P) with 6x HDMI from E8860 GPU	21
SI-624	13th Gen Intel® Core™ Processor Video Wall Signage Player with NVIDIA MXM Graphics and 4x DP	22
SP-63ER	8th Gen Intel® Core™ Desktop Processor Video Wall Signage Player with MXM Graphics and up to 16x HDMI	23

Mid-Range Signage Player

NEW SI-664	14th Gen Intel® Core™ Processor Signage Player with Intel® Next Gen graphic engine, up to 8Xe-Cores and 1x HDMI 2.1 & 3x HDMI 2.0b	24
NEW SI-664-N	12th Gen Intel® Core™ Processor Fanless Signage Player with Intel® Iris Xe Graphics built-in and 4x HDMI 2.0b	25
SI-663	13th/12th Gen Intel® Core™ Processor Signage Player with Intel® SoC Integrated Graphics and 1x HDMI 2.0/1x DP 1.4/1x DVI-D	26
SI-663-N	13th/12th Gen Intel® Core™ Processor Fanless Signage Player with Intel® SoC Integrated Graphics and 1x HDMI 2.0/1x DP1.4/1x DVI-D	27
SI-654	11th Gen Intel® Core™ U-Series Processor Signage Player with Intel® SoC Integrated Graphics and 4x HDMI 2.0	28
SI-654-N	11th Gen Intel® Core™ U-Series Processor Fanless Signage Player with Intel® SoC Integrated Graphics and 4x HDMI 2.0	29
NEW SI-652-N	14th Gen Intel® Core™ Processors Fanless Signage Player with Intel® Graphics built-in and 2x HDMI	30
SI-642-N	8th Gen Intel® Core™ U-Series Processor Fanless Signage Player with Intel® UHD Graphics 620 and 1x HDMI & DP	31
NEW SI-344	AMD Ryzen™ Embedded 8000 series Processor Signage Player with Radeon RDNA 3 Graphics and 4x HDMI	32
SI-334	AMD Ryzen™ Embedded V2000 Series Processor Signage Player with AMD Vega GPU and 4x HDMI	33
SI-324	AMD Ryzen™ Embedded V1000 Series Processor Signage Player with AMD Vega GPU and 4x HDMI	34
SI-324-N	AMD Ryzen™ Embedded R2000 / V2000 Series Processor Fanless Signage Player with AMD Vega GPU and 4x HDMI	35
SI-323-N	AMD Ryzen™ Embedded R2000 / R1000 Series Processor Fanless Signage Player with AMD Vega GPU and 3x HDMI	36

Entry-Level Signage Player

NEW SI-212-N	Intel® Atom® x7000 / Pentium® / Celeron® Processor Fanless Signage Player with 2x HDMI 2.0	37
SI-111-N	Intel® Atom® x6000 / Pentium® / Celeron® Processor Fanless Signage Player with 1x HDMI	38
SI-12-J19	Intel® Celeron® Processor J1900 Fanless Signage Player with Intel® Gen7 Graphics and 2x HDMI	39

Outdoor Signage Player

SE-603-N	11th Gen Intel® Core™ / Celeron® U-Series Processor Fanless Signage Player with 1x HDMI, DP and DVI	40
SE-103-N	Intel® Atom® x6000 / Pentium® / Celeron® Processor Fanless Signage Player with Intel® Graphics and 3x HDMI	41
SE-102-N	Intel® Atom® x7/x5 / Pentium® & Celeron® Processor Fanless Signage Player with 2x HDMI	42
SI-12	Intel® Atom® Processor E3845 Fanless Signage Player with Intel® Gen7 Graphics and 2x HDMI	39

Waterproof / Wide-Range Temperature Signage Player

NEW SW-602-N	Intel® Core™ Processor Waterproof Fanless Signage Player with 2x HDMI	43
SW-101-N	Intel® Atom® Processor E3845 Waterproof Fanless Signage Player with 1x HDMI	44

All-in-One Bar-Type Signage Panel PC

ARD-048-N	48" 8th Gen Intel® Core™ i5-8365UE Processor All-in-One Bar-Type Fanless Panel PC	45
ARD-042-N	42" Intel® Pentium® N4200 Processor All-in-One Bar-Type Fanless Panel PC	46
ARD-037-N	37" Intel® Pentium® N4200 Processor All-in-One Bar-Type Fanless Panel PC	47
ARD-028-NA	27.6" Intel® Pentium® N4200 Processor All-in-One Bar-Type Fanless Panel PC	48

RISC-Based Signage Player

ISR500	MediaTek Genio 700/MT8390 or MediaTek Genio 510/MT8370 Processor Ruggedized Fanless Signage Player with 2x HDMI	49
ISR215	NXP i.MX 8M Plus - ARM Cortex-A53 Quad Processor Fanless Signage Player with 1x HDMI 2.0	50

About IBASE



Design and Manufacturing of Robust Computing Platforms

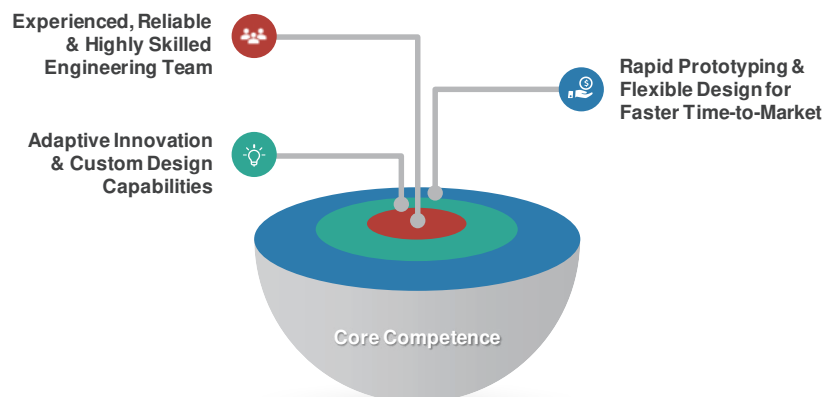
Company Profile

IBASE Technology specializes in the design and manufacture of robust industrial PC products and has been serving the global market since its establishment in 2000. All manufacturing and quality control operations are conducted in IBASE's own facilities in Taiwan, which are certified to ISO 9001, ISO 13485, ISO 14001, and ISO 27001 standards. The company's current product offerings include x86 and RISC-based industrial motherboards, embedded systems, Edge AI computers, panel PCs, network appliances, and digital signage players. IBASE is publicly listed on the Taipei Exchange (TPEX: 8050) and has become a leading global provider of innovative industrial and embedded computing solutions.



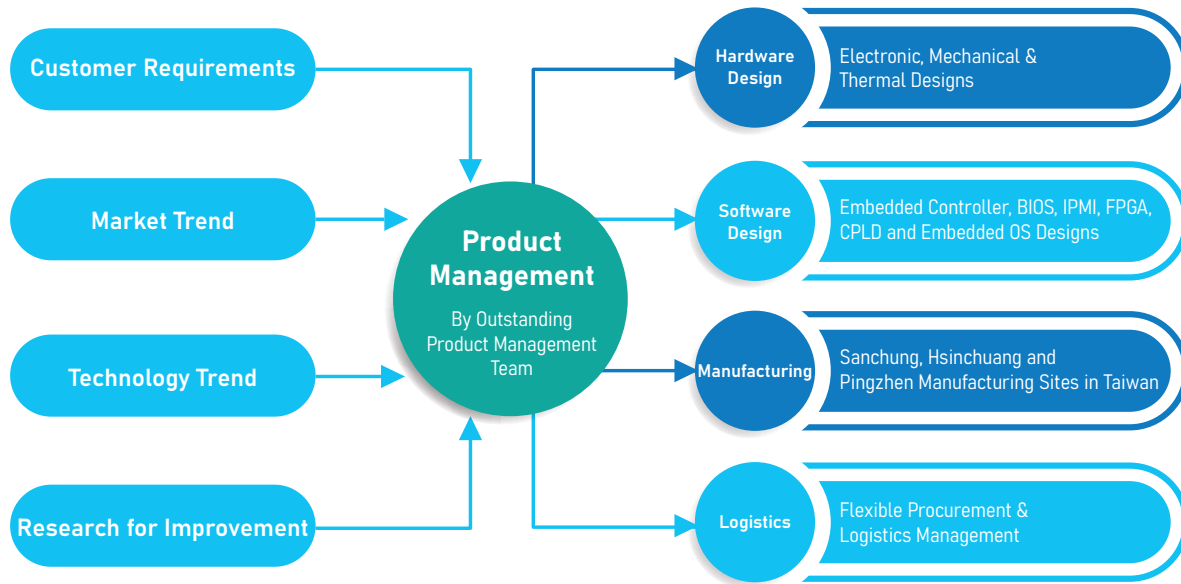
Core Competence – R&D Design Capabilities

IBASE excels in delivering advanced R&D design capabilities through a team of experienced, reliable, and highly skilled engineers. Our core expertise lies in adaptive innovation and customized design solutions tailored to diverse industry requirements. By leveraging rapid prototyping and flexible design processes, we help customers accelerate time-to-market and gain a competitive edge in today's fast-evolving technology landscape. From concept to completion, IBASE prioritizes precision, efficiency, and reliability—making us a trusted partner for businesses seeking advanced industrial computing solutions.



Design & Manufacturing Services

Established to become a leading global provider of embedded board and system solutions, IBASE manufactures and supplies cutting-edge products based on the latest technologies to meet market demands. Our R&D and product management teams have the expertise to design and develop innovative products that meet customer requirements and design specifications. We place great importance on research and development, investing heavily in manpower and resources to consistently deliver high-quality, innovative products. IBASE is also committed to environmental compliance by working to prevent pollution through the avoidance of banned or restricted substances in our production processes and products, helping our customers address their environmental challenges.



IBASE Manufacturing Sites

IBASE Manufacturing Sites in Taiwan



18,481 m² / 5,591 Ping

Pingzhen

- Board Production
- System Assembly
- Validation



6,070 m² / 1,840 Ping

Xinzhuang

- System Assembly
- Validation



3,124 m² / 945 Ping

Sanchong

- Board Production
- Validation

Total Size

297,891 Square-feet
(27,675 m² / 8,376 Ping)

Capacity

- SMT Line x 7
- DIP Assembly Line x 4
- System Assembly Line x 10
- Cleanroom x 2
- Burn-in Room x 20

PCBA

80K/month

In-house Production+
Outsourcing

System Assembly

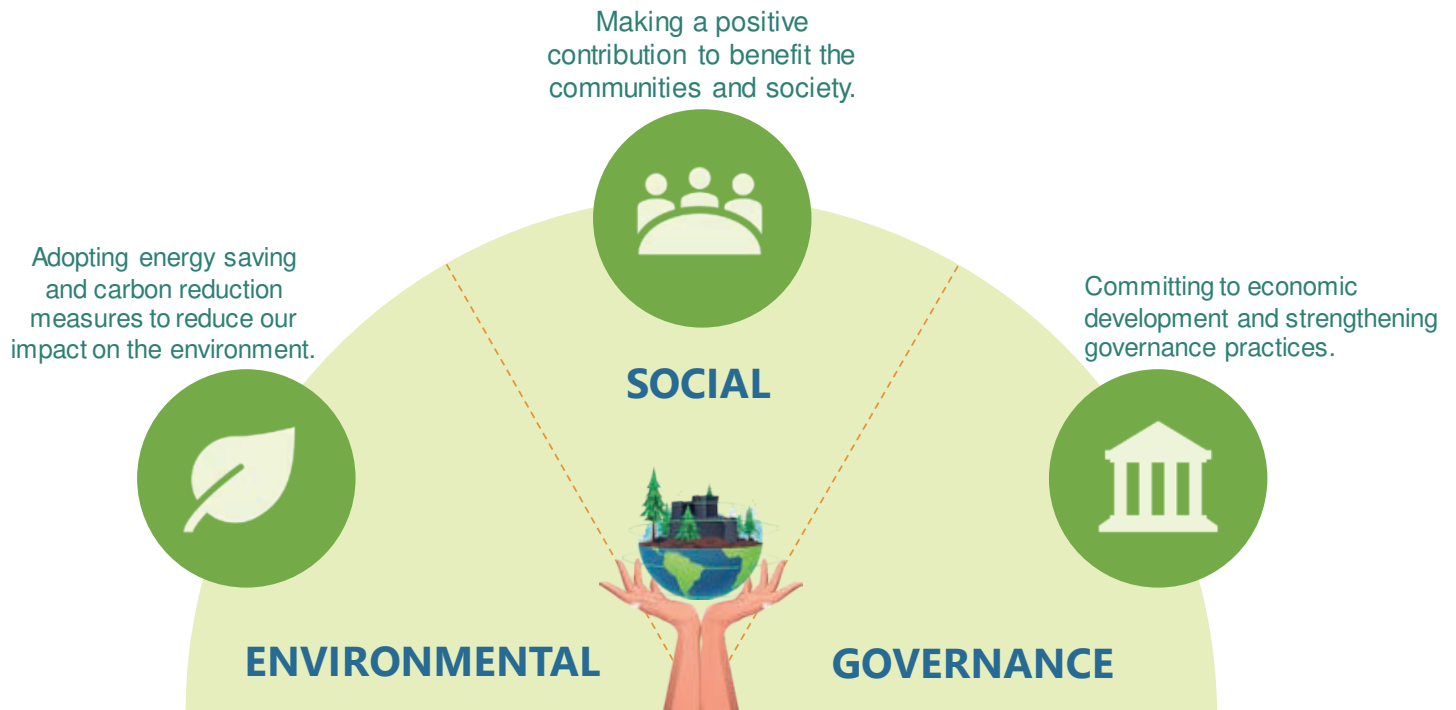
50K/month

In-house Production+
Outsourcing

Certifications



Our ESG Commitments



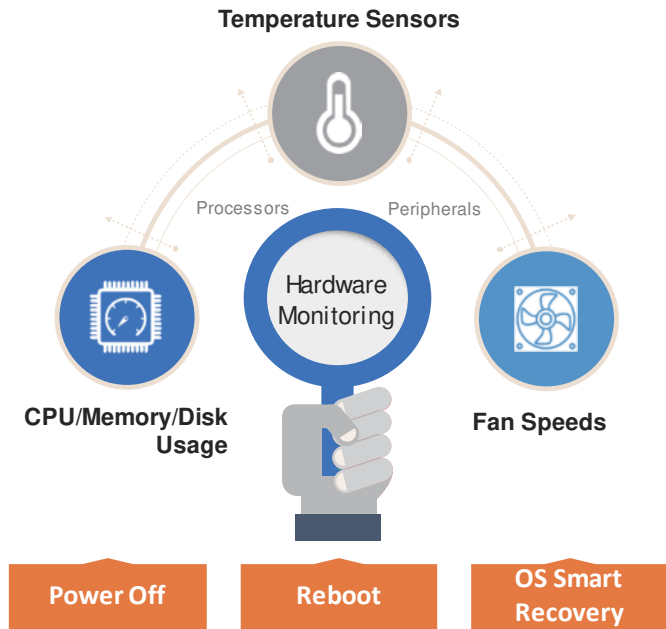
Sustainable Development Goals (SDGs)

Aspects		SDGs Advocated by United Nations		
 	SOCIAL	1 NO POVERTY 	4 QUALITY EDUCATION 	5 GENDER EQUALITY
	GOVERNANCE	8 DECENT WORK AND ECONOMIC GROWTH 	9 INDUSTRY, INNOVATION AND INFRASTRUCTURE 	10 REDUCED INEQUALITIES
	ENVIRONMENTAL	7 AFFORDABLE AND CLEAN ENERGY 	12 RESPONSIBLE CONSUMPTION AND PRODUCTION 	13 CLIMATE ACTION

Observer Connect Introduction

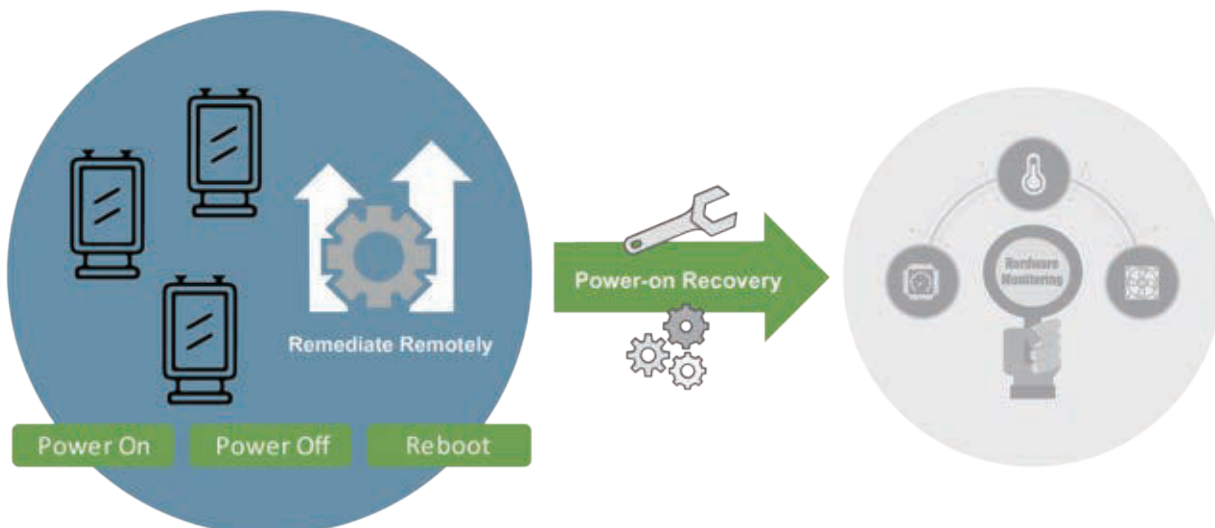
In-Band Remote Control Functions

	Power Off	Shuts down the OS
	Reboot	Reboots the OS
	OS Smart Recovery	Restores the OS to factory default setting
	Hardware Monitoring	Monitors CPU/MEM/DISK usage, temperature and fan speed
	OS Information	Check for unexpected changes in the equipment
	Auto Power Schedule	Configure the power on/off time as needed (Coming Soon)



Out-of-Band Remote Control Functions (optional)

	Power On	Turns on the device
	Power Off	Shutdown OS and force device to turn off when it fails
	Reboot	Forces the device to restart



Difference Between In-Band & Out-of-Band Management

In-Band Management

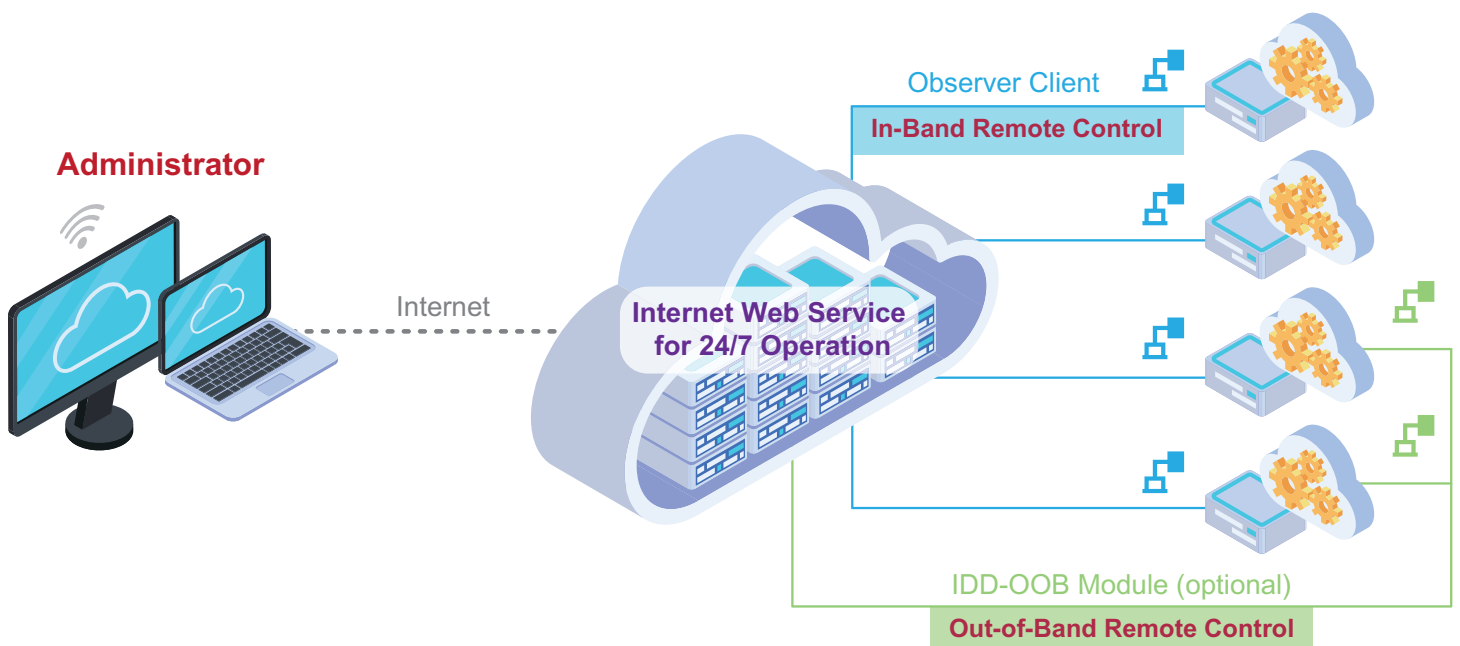
- ⚡ Can only be controlled when the device is powered on and the OS is working properly
- ⚡ Unable to troubleshoot remotely when In-Band control becomes inaccessible
- ⚡ No additional hardware needed
- ⚡ Easy to set up and expand

VS

Out-of-Band Management

- 🌲 Can be controlled even when the device is powered off or the OS is not working
- 🌲 Provides an alternative method to access the remote device, enabling troubleshooting and remote power control
- 🌲 Requires additional hardware

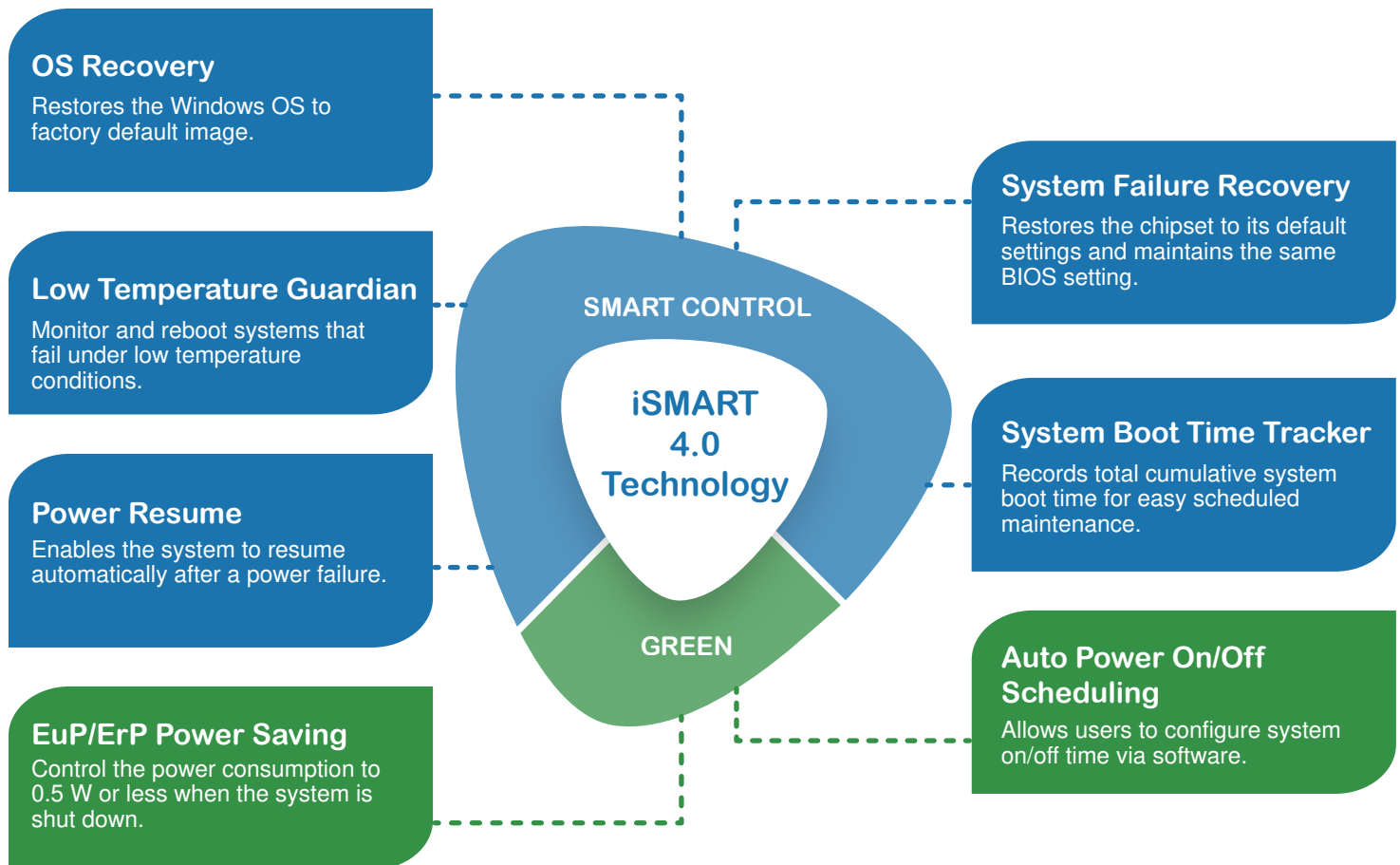
Architecture Diagram



iSMART

iSMART 4.0 Smart Control Green Technology

In 2011, IBASE introduced iSMART, a cutting-edge smart control and green technology exclusively developed to improve flexibility and energy efficiency across IBASE products. iSMART 4.0 offers several features for smart system management, including OS recovery, low-temperature protection, power resume, system failure recovery, and a system boot-time tracker. For energy conservation, it supports EuP/ErP-compliant power saving and auto power on/off scheduling. The iSMART technology not only enhances the efficiency, reliability, and longevity of IBASE products but also supports environmental protection and contributes to the United Nations Sustainable Development Goals (SDGs).



Peripheral Device Power Control (PDPC)

Peripheral Device Power Control (PDPC) enhances system security by preventing unauthorized access and protecting sensitive data. IBASE's PDPC design uses software-based control to power down peripheral devices connected via external USB Type-A ports or internal M.2 slots. Users can easily disable power to these peripherals and later restore functionality by re-enabling power through software, allowing the device to return to its normal operational state.



Software



iCONTROL

Intelligent Control Technology

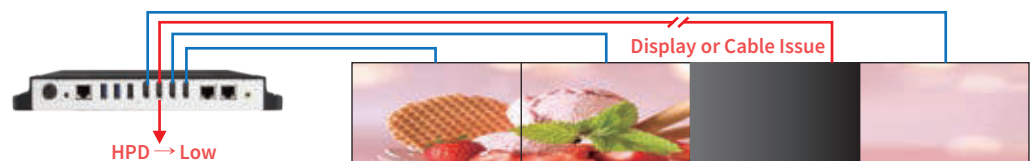
An intelligent control technology featuring hardware EDID emulation, display status monitoring and HDMI-CEC functions.

Hardware EDID Emulation



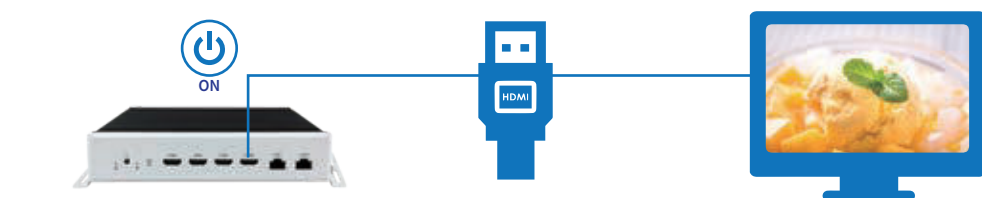
The hardware EDID (Extended Display Identification Data) emulation function prevents screen convergence issues caused by cable disconnections, incorrect display settings, or playback software errors.

Display Status Monitoring



The built-in display monitoring function helps continuously monitor display status remotely from the field.

HDMI-CEC Function



CEC Allows for Display On/Off Remote Control via HDMI.

Digital Signage Applications

High Quality Signage Players that Cater to Your Needs

High-Quality Signage Players to Meet Your Needs

IBASE offers a comprehensive range of digital signage players designed for single and multi-display setups across various venues, including restaurants, retail stores, banks, schools, airports, and shopping malls—delivering dynamic information and targeted promotions.

We provide entry-level, mid-range, and high-performance digital signage players capable of projecting sophisticated visuals on UHD/4K/8K single screens or large-scale video walls. These platforms support advanced remote content management, improving uptime and reducing operational costs. Our lineup includes high-performance video wall players and bar-type panel PCs ideal for in-store advertising, digital menu boards, and interactive signage displays.

IBASE also delivers innovative digital out-of-home (DOOH) systems for outdoor deployments. These rugged platforms support 24/7 operation within extended temperature ranges from -40°C to $+75^{\circ}\text{C}$ (-40°F to $+167^{\circ}\text{F}$) and feature IP65/IP68-rated enclosures that are dust-tight and water-resistant. Even in harsh environments, our outdoor signage solutions match the performance of indoor systems while offering superior resistance to dust, dirt, and weather—making them ideal for demanding outdoor signage applications.



iBASE

Digital Signage Applications

Public Venue



- Airport Flight Schedule
- Building Directory
- Safety Alert Sign

Retail Environment



- Digital Menu Board
- Video Wall Signage
- POS & Kiosk

Advertisement



- Digital Wall Sign
- Multimedia Ad
- Outdoor Ad

Education



- Events Announcement
- Intelligent Classroom
- School Wayfinder

Internal Communication



- Meeting & Conference
- Reception Display
- Situation Room

Strategic Software Partners

IBASE collaborates with industry-leading digital signage software and analytics providers to deliver complete turnkey hardware solutions for rapid deployment across entertainment and public venues, including shopping malls, restaurants, retail stores, airports, banks, and hotels.

Our solutions include user-friendly utilities that enhance business operations by enabling the creation and distribution of compelling visual content. They help increase sales, strengthen brand loyalty, and provide targeted information and entertainment to your audience.

aiixon

ComQ

 **CyberStation**


CYCLOPS

DIS

 **embed signage**


EYECON
Digital Signage

HITACHI
Inspire the Next
株式会社日立ケーイーシステムズ

intuiface

LIVE

 **NAVORI**

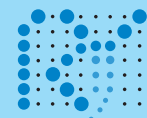
 **Omnivex**

 **omnis**

pdc

 **PRO.TERAS**

Quividi


RYARC

SCALA

 **STiNO**

 **S9VISION**
DIGITAL SIGNAGE MANAGEMENT SOFTWARE

 **SPINETIX**
N°1 IN DIGITAL SIGNAGE SOLUTIONS

ycd
multimedia 

Signage Player Selection Guide

IBASE offers a full range of signage players tailored to different customer requirements—ranging from entry-level to mid-range and high-performance systems, with fanless or segregated ventilation designs. Whether for single or multi-display outputs, and with passive or active cooling, IBASE signage players are built to meet diverse application and environmental needs.

Screens	Screens					
	1	2	3	4	6	8~16
8~16 Screens Video Wall						SP-63ER ●●
6 Screens Video Wall					SI-636 ●●	
4 Screens Video Wall				SI-624 ●●● SI-664(-N) ●●●●●●●● SI-654(-N) ●●●●●● SI-344 ●●●●●●●● SI-334 ●●●●●●● SI-324(-N) ●●		
8K Video Playback	SI-624 ●●● SI-664(-N) ●●●●●●●● SP-63ER ●●					
4K Video Playback	SI-344 ●●●●●●●● SI-334 ●●●●●●● SI-636 ●● SI-324(-N) ●● SI-212-N ●●●●●●●● SI-642-N ●● SI-111-N ●● ISR500 ●● SE-103-N ●●●●●●	SE-603-N ●●●● SI-654(-N) ●●●●●● SI-664(-N) ●●●●●●●● SW-602-N ●●●		SP-63ER ●● SI-624 ●●●		
FHD / Flash	SW-101-N ●● SI-12 ●●	SI-212-N ●●●●●●●● SE-103-N ●●●●●● SE-102-N ●●● SI-642-N ●●	SE-603-N ●●●● SI-323-N ●●●	SI-664(-N) ●●●●●●●● SI-654(-N) ●●●●●● SI-344 ●●●●●●●● SI-334 ●●●●●●● SI-324(-N) ●●	SI-636 ●●	SP-63ER ●●
Fanless Design Segregated Airflow Design HDMI-CEC function H/W EDID Emulation Function PDPC (Peripheral Device Power Control) OOB (Option) with Nvidia/AMD/Matrox GPU card						

Comparison Table

Extreme Performance Video Wall Player



Coming soon

Models	SI-636	SI-624	SP-63ER	SI-664
Mainboard	MBD636	MBD624	MBD63E	MBD664
CPU	13th/12th Gen Intel® Core™ Mobile Processors	13th/12th Gen Intel® Core™ processors	8th Gen Intel® Core™ / Pentium® / Celeron® Desktop Processor	14th Gen Intel® Core™ Processors
Chipset	SoC Integrated	R680E/Q670E	Intel® Q370 PCH	NEX Intel® Core™ Ultra Meteor Lake U/H Processors
Operating System	Windows 11 (64-bit) Ubuntu (Installation)	Win10 IoT Enterprise (64-bit) Ubuntu Linux (64-bit)	Win10 IoT Enterprise (64-bit) Ubuntu Linux (64-bit)	Win10 IoT Enterprise (64-bit) Ubuntu Linux (64-bit)
Memory	2x DDR5-5600 SO-DIMM, dual channel	2x DDR4 SO-DIMM, Max 64GB (supports ECC by CPU SKU)	2x DDR4-2666 DIMM, Max. 64GB	2x DDR5 5600 SODIMM, Max. 96GB
Graphics	AMD Radeon E8860 GPU	NVIDIA MXM Graphics	Integrated Intel® HD Graphics	Intel® Arc™ graphics
Display	6x HDMI 1.4b	1x HDMI 1.4 (console) 4x DP	16x HDMI 1.3 (w/o audio)	3x HDMI 2.0b 1x HDMI 2.1
Video Capability	6x FHD or 1x 4K	4x 4K or 1x 8K (with NV MXM module)	8x FHD or 4x 4K or 1x 8K	2x 4K or 1x 8K
Ethernet	1x Intel® 226LM 2.5Gb with LAN Wakeup and PXE support 1x Intel® I210IT (for OOB function with COM)	1x Intel® I226LM 1x Intel® I210	1x Intel® I219LM 1x Intel® I211AT/ I210AT	1x Intel® I226V 1x Intel® I210IT
Expansion Slots	2x M.2 M-key(2280) 1x M.2 E-Key (2230) 1x M.2 B-key (3052) 1x UIM/SIM card slot	2x M.2 M-Key (2280) 1x M.2 E-Key (2230) 1x M.2 B-Key (3052) 1x UIM/SIM card slot	1x MiniPCI-E 1x M.2 M-Key (2280) 1x M.2 E-Key (2230) 1x MXM slot for NVIDIA GPO card	1x M.2 E-Key (2230) 1x M.2 B-Key (3042) 1x M.2 M-Key (2280)
USB	3x USB 3.2 1x USB type-C	2x USB 3.1 2x USB 3.2	6x USB 3.0	4x USB 3.1
Storage	1x M.2 M-Key(2280)	2x 2.5" SATA HDD/SSD slots	2x 2.5" SATA HDD/SSD slots (supports RAID 1)	1x M.2 M-Key(2280)
iSMART	iSmart4.0	iSmart3.10	iSmart3.10	iSmart4.0
H/W EDID	-	Yes	Yes	Yes
HDMI-CEC	Yes	-	-	Yes
Fanless	-	-	-	Segregated flow ventilation
Certification	CE, FCC Class-A, cULus	CE, FCC Class-B, UKCA ,cULus, CCC	CE, FCC class-B, cULus	CE/FCC Class B/CCC/UL, VCCI
Dimensions	290mm(W) x 222mm(D) x 29.9mm(H)	329.2mm(W) x 210mm(D) x 73.1mm(H)	395mm(W) x 438mm(D) x 88mm(H)	TBD
Weight	2 kg(4.4 lbs)	3.8 kg (8.38 lbs)	9.5 kg (20.9 lbs)	TBD
Operating Temperature	0°C ~ 45°C (32°F ~ 113°F)	0°C ~ 45°C (32°F ~ 113°F)	0°C ~ 45°C (32°F ~ 113°F)	0°C ~ 45°C (32°F ~ 104°F)
Power Supply	150W power adaptor	270W power adaptor	Internal 850W PSU	84W power adaptor
Page No.	p. 21	p. 22	p. 23	p. 24

Comparison Table

Mid-Range Signage Player

Coming soon



SI-664-N	SI-663	SI-663-N	SI-654	SI-654-N
MBD664	MBD663	MBD663	MBD654	MBD654
14th Gen Intel® Core™ Processors	13th/12th Gen Intel® Core™ / Celeron® U-series Processor TDP ≤ 28W	13th/12th Gen Intel® Core™ / Celeron® U-series Processor TDP ≤ 28W	11th Gen Intel® Core™ / Celeron® U-Series Processor	11th Gen Intel® Core™ / Celeron® U-Series Processor TDP ≤ 15W
NEX Intel® Core™ Ultra Meteor Lake U/H Processors	SoC Integrated	SoC Integrated	SoC Integrated	SoC Integrated
Win10 IoT Enterprise (64-bit) / Ubuntu Linux (64-bit)	Win10 IoT Enterprise (64-bit) / Ubuntu Linux (64-bit)	Win10 IoT Enterprise (64-bit) / Ubuntu Linux (64-bit)	Win10 IoT Enterprise (64-bit) / Ubuntu Linux (64-bit)	Win10 IoT Enterprise (64-bit) / Ubuntu Linux (64-bit)
2x DDR5 5600 SODIMM, Max. 96GB	2x DDR5 4800 SODIMM slots, Max. 64GB	2x DDR5 4800 SODIMM slots, Max. 64GB	2x DDR4-3200 SO-DIMM, dual channel, Max. 64GB	2x DDR4-3200 SO-DIMM, dual channel, Max. 64GB
Intel® Arc™ graphics	Intel® Iris Xe Graphics	Intel® Iris Xe Graphics	Intel® Gen12 Graphics	Intel® Gen12 Graphics
3x HDMI 2.0b 1x HDMI 2.1	1x HDMI 2.0 1x DP++ 1.4 1x DVI-D	1x HDMI 2.0 1x DP++ 1.4 1x DVI-D	4x HDMI 2.0	4x HDMI 2.0
2x 4K or 1x 8K	2x 4K	2x 4K	2x 4K	2x 4K
1x Intel® I226V 1x Intel® I210IT	1x Intel® I226LM	1x Intel® I226LM	1st: 1x Intel® I211AT/ I210AT 2nd: 1x Intel® I219LM (I7/I5) 1x Intel® I219V (I3)	1st: 1x Intel® I211AT/ I210AT 2nd: 1x Intel® I219LM (I7/I5) 1x Intel® I219V (I3)
1x M.2 E-Key (2230) 1x M.2 B-Key (3042) 1x M.2 M-Key (2280)	1x M.2 E-Key (2230) 1x M.2 B-Key (3042) 1x UIM/SIM card slot 1x M.2 M-Key (2280)	1x M.2 E-Key (2230) 1x M.2 B-Key (3042) 1x UIM/SIM card slot 1x M.2 M-Key (2280)	1x M.2 B-Key (3042) 1x M.2 E-Key (2230) 1x UIM/SIM card slot	1x M.2 B-Key (3042) 1x M.2 E-Key (2230) 1x UIM/SIM card slot
4x USB 3.1	3x USB 3.2 1x USB 2.0	3x USB 3.2 1x USB 2.0	1x USB 2.0 3x USB 3.1	1x USB 2.0 3x USB 3.1
1x M.2 M-Key(2280)	1x M.2 M-key (2280) supports NVMe	1x M.2 M-key (2280) supports NVMe	1x M.2 M-Key (2280) supports NVMe	1x M.2 M-Key (2280) supports NVMe
iSmart4.0	iSmart3.10	iSmart3.10	iSmart3.10	iSmart3.10
Yes	-	-	Yes	Yes
Yes	-	-	Yes	Yes
Yes	Yes	Segregated flow ventilation	Segregated flow ventilation	Yes
CE/FCC Class B/CCC/UL, VCCI	CE/FCC Class-B/CCC/UL	CE/FCC Class-B/CCC/UL	CE, FCC class-B, UKCA, cULus, LVD	CE, FCC class-B, UKCA,cULus, CCC, LVD
TBD	175mm(W) x 212mm(D) x 37mm(H)	175mm(W) x 212mm(D) x 37mm(H)	200.8mm(W) x 139.3mm(D) x 41.2mm(H)	200.8mm(W) x 139.3mm(D) x 41.2mm(H)
TBD	1.5 kg (3.3 lbs)	1.6 kg (3.5 lbs)	1.7 kg (3.7 lbs)	1.7 kg (3.7 lbs)
0°C ~ 45°C (32°F ~ 104°F)	0°C ~ 45°C (32°F ~ 104°F)	0°C ~ 45°C (32°F ~ 104°F)	0°C ~ 45°C (32°F ~ 113°F)	0°C ~ 45°C (32°F ~ 113°F)
84W power adaptor	84W power adaptor	84W power adaptor	84W power adaptor	84W power adaptor
p. 25	p. 26	p. 27	p. 28	p. 29

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

Comparison Table

Mid-Range Signage Player

Coming soon



Coming soon



Models	SI-652-N	SI-642-N	SI-344	SI-334
Mainboard	MBD652	MBD642	MBD334	MBD334
CPU	14th Gen Intel® Core™ Processors	8th Gen Intel® Core™ / Pentium® / Celeron® Mobile Processor (TDP ≤ 25W)	AMD Ryzen™ Embedded V2000 Series Processors	AMD Ryzen™ Embedded 8000 series Processors
Chipset	SoC Integrated	SoC Integrated	SoC Integrated	SoC Integrated
Operating System	Win11 IoT Enterprise (64-bit) Linux Ubuntu (64-bit)	Win10 IoT Enterprise (64-bit) Ubuntu Linux (64-bit)	Win11 IoT Enterprise (64-bit) Win10 IoT Enterprise (64-bit) Ubuntu Linux (64-bit)	Win11 IoT Enterprise(64-bit) Linux Ubuntu(64-bit)
Memory	2x DDR5 SO-DIMM, Max. 64GB	2x DDR4-2400 SO-DIMM dual channel, Max. 32GB	2x DDR4-3200, SO-DIMM, dual channel, Max. 64GB	2x DDR5 SO-DIMM, Max. 128GBz
Graphics	Intel® Graphics	Intel® UHD Graphics 620	Next-gen AMD Vega GPU integrated	RDNA 3 Radeon Graphics & XDNA Neural Processing Unit (for AI inferencing)
Display	1x HDMI 2.1 + 1x HDMI 2.0	1x HDMI 2.0 1x DP++	4x HDMI 2.0	4x HDMI
Video Capability	1x 8K or 2x 4K	2x FHD or 1x 4K	4x FHD or 1x 4K	4x FHD or 1x 4K
Ethernet	1x Intel® I226V 1x Intel® I210IT	1x Intel® I219LM 1x Intel® I211AT /I210AT	2x Realtek RTL8111H-CG	2x Realtek RTL8111H-CG
Expansion Slots	1x M.2 E-Key (2230) 1x M.2 B-Key (3042)	1x M.2 B-Key (3042) 1x M.2 E-Key (2230) 1x UIM/SIM card slot	1x M.2 B-Key (3052) 1x M.2 E-Key (2230) 1x UIM/SIM card slot	1x M.2 B-Key (3052) 1x M.2 E-Key (2230) 1x M.2 M-Key (2280)
USB	3x USB 3.2 1x USB 2.0	4x USB 3.1	3x USB 3.1	3x USB 3.1
Storage	1x M.2 M-Key(2280)	1x M.2 M-Key (2280)	1x M.2 M-Key (2280)	1x M.2 M-Key(2280)
iSMART	iSmart4.0	iSmart3.10	iSmart3.10	iSmart4.0
H/W EDID	Yes	-	Yes	Yes
HDMI-CEC	Yes	-	Yes	Yes
Fanless	Segregated flow ventilation	Yes	Yes	Segregated flow ventilation
Certification	CE, FCC class B, cULus	CE, FCC class-B, cULus, CCC, LVD	CE, FCC class B, UKCA, cULus, BSMI & CCC	CE, FCC class A, UKCA, cULus & CCC
Dimensions	175mm(W) x 116mm(D) x 30mm(H)	175mm(W) x 119.3mm(D) x 31mm(H)	269mm(W) x 193mm(D) x 31.5mm(H)	TBD
Weight	TBD	1 kg (2.2 lbs)	2.1 kgs (4.63 lbs)	TBD
Operating Temperature	0°C~45°C(32°F~104°F)	0°C ~ 45°C (32°F ~ 113°F)	0°C ~ 45°C (32°F ~ 113°F)	0°C~ 45°C (32°F~113°F)
Power Supply	84W power adaptor	84W power adaptor	150W power adaptor	84W power adaptor
Page No.	p. 30	p. 31	p. 32	p. 33

Comparison Table

Mid-Range Signage Player

Entry-Level



SI-324	SI-324-N	SI-323-N	SI-212-N
MBD324	MBD324	MBD323	MBD212
AMD Ryzen™ Embedded V1000 Processor	AMD Ryzen™ Embedded Next-Gen of R2000 / V1000 Processor (TDP ≤ 25W)	AMD Ryzen™ Embedded Next-Gen of R1000 / R2000 Processor	Intel® Atom® x7000E Series/ N-series/ Core™i3-N305 Processor (formerly Alder Lake N)
SoC Integrated	SoC Integrated	SoC Integrated	SoC Integrated
Win10 IoT Enterprise (64-bit) Ubuntu Linux (64-bit)	Win10 IoT Enterprise (64-bit) Ubuntu Linux (64-bit)	Win10 IoT Enterprise (64-bit) Ubuntu Linux (64-bit)	Win10 IoT Enterprise (64-bit) Ubuntu Linux (64-bit)
2x DDR4-2400 SO-DIMM, dual channel, Max. 32GB	2x DDR4-2400 SO-DIMM, dual channel, Max. 32GB	2x DDR4-2400 SO-DIMM, dual channel, Max. 32GB	1x DDR5 SO-DIMM, Max. 32GB
Next-gen AMD Vega GPU integrated	Next-Gen AMD Radeon™ HD GPU integrated	Next-Gen AMD Radeon™ HD GPU integrated	Intel® Gen12 Graphics
4x HDMI 2.0	4x HDMI 2.0	3x HDMI 2.0	2x HDMI 2.0b
4x FHD or 1x 4K	4x FHD or 1x 4K	3x FHD or 1x 4K	2x FHD or 1x 4K
2x Realtek RTL8111H-CG	2x Realtek RTL8111H-CG	2x Realtek RTL8111H-CG	1x Intel® I210IT
1x M.2 E-Key (2230) 1x Mini PCI-E (Full-size) 1x SIM card slot	1x M.2 E-Key (2230) 1x Mini PCI-E (Full-size) 1x SIM card slot	1x M.2 E-Key (2230) 1x Mini PCI-E (Full-size) 1x SIM card slot	1x M.2 E-Key (2230)
2x USB 3.0 1x USB 2.0	2x USB 3.0 1x USB 2.0	2x USB 3.0 1x USB 2.0	3x USB 3.2
1x M.2 M-Key (2280)	1x M.2 M-Key (2280)	1x M.2 M-Key (2280)	1x M.2 M-Key(2280)
iSmart3.10	iSmart3.10	iSmart3.10	iSmart3.10
Yes	Yes	Yes	Yes
-	-	-	Yes
Segregated flow ventilation	Yes	Yes	Yes
CE, FCC class-B, cULus, BSMI, CCC	CE, FCC class-B, cULus	CE, FCC class-B, cULus	CE, FCC Class-B, cULus & CCC, LVD
269mm(W) x 193mm(D) x 31.5mm(H)	215.8mm(W) x 164mm(D) x 45mm(H)	215.8mm(W) x 164mm(D) x 45mm(H)	217mm(W) x 123mm(D) x 22.5mm(H)
2.1 kg (4.63 lbs)	1.5 kg (3.31 lbs)	1.5 kg (3.31 lbs)	TBD
0°C ~ 45°C (32°F ~ 113°F)	0°C ~ 45°C (32°F ~ 113°F)	0°C ~ 45°C (32°F ~ 113°F)	-10°C ~50°C (14°F ~ 122°F)
150W power adaptor	84W power adaptor	84W power adaptor	50W power adaptor
p. 34	p. 35	p. 36	p. 37

Comparison Table

Entry-Level Signage Player		Outdoor Signage Player		
				
Models	SI-111-N	SI-12-J19	SE-603-N	SE-103-N
Mainboard	MBD111	IB812	MBD603	MBD103
CPU	Intel® Atom® X6000/ Pentium® / Celeron® Processor	Intel® Atom® Processor J1900 SoC (22nm); Quad-Core @ 2.0GHz	11th Gen Intel® Core™ / Celeron® U-series Processor TDP ≤ 28W	Intel® Atom® X6000/ Pentium® / Celeron® Processor
Chipset	SoC Integrated	SoC Integrated	SoC Integrated	SoC Integrated
Operating System	Win10 IoT Enterprise (64-bit) Ubuntu Linux (64-bit)	Win7 (32/64-bit), Win8, Win8.1, WEI8.1, WEC 2013, Win10 IoT Enterprise (32/64-bit)	Win10 IoT Enterprise (64-bit) Ubuntu Linux (64-bit)	Win10 IoT Enterprise (64-bit) Ubuntu Linux (64-bit)
Memory	2x DDR4-3200 SO-DIMM, Max. 32GB, supports IBECC	2x DDR3L-1333 SO-DIMM dual channel, Max. 8GB	2x DDR4-3200 SO-DIMM, Max. 64GB, supports IBECC	2x DDR4-3200 SO-DIMM, Max. 32GB, supports IBECC
Graphics	Intel® Gen11 Graphics	Intel® Gen7 Graphics	Intel® Gen12 Graphics	Intel® Gen11 Graphics
Display	1x HDMI 2.0b	2x HDMI 1.4a	1x HDMI 2.0b 1x DP (support DP++) 1x DVI-D	3x HDMI 2.0b
Video Capability	1x 4K	1x FHD	2x 4K	2x FHD or 1x 4K
Ethernet	1x Intel® I226IT	1x Realtek RTL8111H-CG	1x Intel® I226IT	1x Intel® I210IT for x6000 series 1x Intel® I210AT for N/J6000 series
Expansion Slots	1x M.2 E-Key (2230)	1x Mini PCI-E (Full-size) 1x SIM card slot	1x M.2 E-Key (2230) 1x M.2 B-Key (3052) 1x UIM/SIM card slot	1x M.2 B-Key (3052) 1x M.2 E-Key (2230) 1x UIM/SIM card slot
USB	3x USB (Gen 2)	2x USB 2.0 1x USB 3.0	1x USB 2.0 3x USB 3.1 (Gen 2)	3x USB
Storage	1x M.2 M-Key (2280)	1x mSATA	1x M.2 M-key (2280) supports NVMe	1x M.2 M-Key (2280)
iSMART	iSmart3.8	iSmart3.12	iSmart3.12	iSmart3.10
H/W EDID	-	-	-	Yes
HDMI-CEC	-	-	-	Yes
Fanless	Yes	Yes	Yes	Yes
Certification	CE, FCC Class-B, UKCA, cULus & CCC	CE, FCC class-B, VCCI class-B, cULus, BSMI, LVD	CE, FCC Class-B, UKCA, cULus & CCC	CE, FCC class-B, UKCA, cULus
Dimensions	260mm(W) x 181.4mm(D) x 25mm(H)	190mm(W) x 130mm(D) x 19.5mm(H)	262mm(W) x 134mm(D) x 51.8mm(H)	260mm(W) x 181.4mm(D) x 25mm(H)
Weight	1 kg (2.2 lbs)	0.8 kg (1.76 lbs)	TBD	1.7 kg (3.75 lbs)
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F) for SI-111-N -20°C ~ 70°C (-4°F ~ 158°F) for SI-111-N11E	0°C ~ 45°C (32°F ~ 113°F)	-40°C ~ 75°C (-40°F ~ 167°F)	-40°C ~ 75°C (-40°F ~ 167°F)
Power Supply	60W power adaptor	60W power adaptor	60W power adaptor	60W power adaptor
Page No.	p. 38	p. 39	p. 40	p. 41

Comparison Table

Outdoor Signage Player		Waterproof Signage Player		Signage Panel PC
				
SE-102-N	SI-12	SW-602-N	SW-101-N	ARD-048-N
MBD102	IB812	MBD603-i5	SGT-MB3	IB919AF-8365
Intel® Atom® x7 / x5, Pentium® / Celeron® Processor	Intel® Atom® Processor E3845 SoC (22nm); Quad-Core @ 1.91GHz	11th Gen Intel® Core™ / Celeron® U-Series processors	Intel® Atom® Processor E3845 SoC (22nm); Quad-Core @ 1.91GHz	Intel® Core™ i5-8365UE Processor 1.6GHz~4.1GHz
SoC Integrated	SoC Integrated	SoC Integrated	SoC Integrated	SoC Integrated
Win10 IoT Enterprise (64-bit) Ubuntu Linux (64-bit)	Win7 (32/64-bit), Win8, Win8.1, WEI8.1, WEC 2013, Win10 IoT Enterprise (32/64-bit)	Win10 IoT Enterprise (64-bit)	Win7 32/64-bit, Win8, Win8.1, WEI8.1, WEC 2013 Win10 IoT Enterprise (32/64-bit)	Win10 IoT Enterprise (64-bit) Ubuntu Linux (64-bit)
2x DDR3L-1866 SO-DIMM dual channel, Max. 8GB	2x DDR3L-1333 SO-DIMM dual channel, Max. 8GB	2x DDR4-3200 SO-DIMM, dual channel, Max. 64GB	1x DDR3L-1333 SO-DIMM, Max 8GB	2x DDR4L-2400 SO-DIMM dual channel Max 32GB
Intel® HD Graphics 505	Intel® Gen7 Graphics	Intel® Iris Xe Graphics	Intel® HD Graphics	Intel® UHD Graphics 620
2x HDMI 1.4b	2x HDMI 1.4a	2x HDMI 2.0 (M25)	1x HDMI (C3 connector)	1x HDMI 1.4b 1x DP 1.2
2x FHD	1x FHD	2x 4K	1x FHD	1x 4K
1x Intel® I210IT Gigabit LAN controller for EXXXX series 1x Intel® I210AT Gigabit LAN controller for NXXXX series	1x Realtek RTL8111H-CG	1x Gigabit LAN (M12)	1x Realtek RTL8111H-CG	1x Intel® I219LM (M12 connector)
1x Mini PCI-E (Full-size) 1x SIM card slot	1x Mini PCI-E (Full-size) 1x SIM card slot	1x M.2 E-Key (2230) 1x M.2 B-Key (3042) 1x UIM/SIM card slot	1x mPCI-E (x1) socket 1x mSATA socket for mSATA SSD	1x M.2 E-Key (2230)
3x USB 3.0	2x USB 2.0 1x USB 3.0	2x USB3.1(M12)	2x USB 2.0 (M12 connector)	2x USB 2.0 (M12 connector)
1x mSATA	1x mSATA	1x M.2 M-Key(2280)	1x mSATA	1x mSATA
iSmart3.10	iSmart3.10	iSmart3.10	iSmart3.10	iSmart3.10
Yes	-	Yes	-	-
-	-	-	-	-
Yes	Yes	Yes	Yes	Yes
CE, FCC Class-B, cULus, LVD	CE, FCC class-B, VCCI, class-B, cULus, BSMI	CE, FCC class B	CE, FCC class-B, cULus	CE, FCC Class-B
190mm(W) x 130mm(D) x 19.5mm(H)	190mm(W) x 130mm(D) x 19.5mm(H)	217mm(W) x 274mm(D) x 86.5mm(H)	227mm(W) x 192mm(D) x 70mm(H)	1250mm(W) x 280mm(D) x 49.7mm(H)
0.9 kg (1.98 lbs)	0.8 kg (1.76 lbs)	3.6 kgs (7.9 lbs)	2.8 kg (6.17 lbs)	17.58 kg (38.76 lbs)
-40°C ~ 70°C (-40°F ~ 158°F) for Exxxx CPU 0°C ~ 45°C (32°F ~ 113°F) for Nxxxx CPU	-30°C ~ 60°C (-22°F ~ 140°F)	-20°C ~ 70°C (-4°F ~ 167°F)	-40°C ~ 75°C (-40°F ~ 167°F)	-25°C ~ 40°C (-13°F ~ 104°F)
60W power adaptor	60W power adaptor	Option	Option	180W power adaptor
p. 42	p. 39	p. 43	p. 44	p. 45

Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.

Comparison Table

All-in-One Bar-Type Signage Panel PC				ARM-Based Signage Player	
					
Models	ARD-042-N	ARD-037-N	ARD-028-NA	ISR500	ISR215
Mainboard	IB811F-420	IB811F-420	IB811F-420	IBR500 SBC	IBR215
CPU	Intel® Pentium® Quad-Core N4200 1.1GHz~2.5GHz	Intel® Pentium® Quad-Core N4200 1.1GHz~2.5GHz	Intel® Pentium® Quad-Core N4200 1.1GHz~2.5GHz	MediaTek Genio 700: 2x A78 2.2GHz L2 256KB, 6x A55 2.0GHz L2 128KB Genio 510: 2x A78 2.0GHz L2 256KB, 4x A55 2.0GHz L2 128KB	NXP i.MX 8M Plus - ARM Cortex-A53 Quad 1.6GHz
Chipset	SoC Integrated	SoC Integrated	SoC Integrated	SoC Integrated	Integrated
Operating System	Win10 IoT Enterprise (32/64-bit)	Win10 IoT Enterprise (32/64-bit)	Win10 IoT Enterprise (32/64-bit)	Linux Yocto 5.15 Android 13	Yocto v3.0 Android 11 Other OS supports by request
Memory	2x DDR3L-1866 SO-DIMM dual channel, Max 8GB	2x DDR3L-1866 SO-DIMM dual channel, Max 8GB	2x DDR3L-1866 SO-DIMM dual channel, Max 8GB	4GB LPDDR4 4000MT/s on-board	3GB LPDDR4 on board
Graphics	Intel® Gen9 Graphics	Intel® Gen9 Graphics	Intel® Gen9 Graphics	ARM Mali-G57 MC3, OpenGL ES 1.1/2.0/3.2, Vulkan 1.0/1.1 ARM Mali-G57 MC2, Vulkan 1.1, OpenGL ES 3.2, and OpenCL™ 2.2	GC7000UL OpenGL ES 3.1, Vulkan Open CL™ 1.2 FP Vivante GC520L (2D)
Display	1x HDMI 1.4b 1x DP1.2	1x HDMI 1.4b 1x DP1.2	1x HDMI 1.4b 1x DP 1.2	1x HDMI (4K60) 1x HDMI (FHD60)	1x HDMI 2.0a
Video Capability	1x FHD	1x FHD	1x FHD	1x 4K	1080p60
Ethernet	1x Intel® I210IT 1x Intel® I210AT	1x Intel® I210IT 1x Intel® I210AT	1x Intel® I210IT 1x Intel® I210AT	1x RTL8211E-VB-CG	2x RJ45 GbE LAN
Expansion Slots	1x M.2 B-Key (3042)	1x M.2 B-Key (3042)	1x M.2 B-Key (3042)	1x M.2 E-Key (2230)	1x M.2 B-Key (3052) w/ SIM socket (for 5G)
USB	4x USB 3.0	4x USB 3.0	4x USB 3.0	1x USB 2.0 1x USB 3.1	2x USB 3.0 Type-A 1x Mini-USB OTG
Storage	1x mSATA	1x mSATA	1x mSATA	128GB eMMC 5.1 Flash	16GB eMMC on board (default)
iSMART	-	-	-	-	-
H/W EDID	-	-	-	-	-
HDMI-CEC	-	-	-	-	-
Fanless	Yes	Yes	Yes	Yes	Yes
Certification	CE, FCC Class-B	CE, FCC Class-B, cULus	CE, FCC class-B, cULus	CE, FCC Class-B	CE/ FCC Class-B
Dimensions	928.10mm(W) x 66.50mm(D) x 281.90mm(H)	928.10mm(W) x 66.50mm(D) x 281.90mm(H)	729.10mm(W) x 54mm(D) x 170.80mm(H)	TBD	119mm(W) x 82mm(D) x 36mm(H)
Weight	9.0 kg (19.84 lbs)	9.0 kg (19.84 lbs)	5.4 kg (11.9 lbs)	TBD	0.8 kg (1.76 lbs)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	-25°C ~ 55°C (-13°F ~ 131°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 60°C (14°F ~ 140°F)
Power Supply	180W power adaptor	180W power adaptor	84W power adaptor	60W power adaptor	60W power adaptor
Page No.	p. 46	p. 47	p. 48	p. 49	p. 50



Features

- iSMART 4.0 smart control energy-saving & Observer remote monitoring technologies
- Supports 13th/12th Gen Intel® Core™ Processors
- Discrete AMD Radeon™ E8860 graphics processors with 2GB GDDR5 graphics memory
- 2x DDR5-5600 SO-DIMM, dual channel, Max. 64GB
- Flexible video wall display configuration
- 1x M.2 B-Key (3052) for 5G or LTE options
- 1x M.2 E-Key (2230) for Wi-Fi, Bluetooth
- 1x M.2 M-Key (2280) for storage
- 2x RS232 serial ports
- 6x HDMI 1.4 outputs with independent audio
- Slim and segregated flow ventilation design

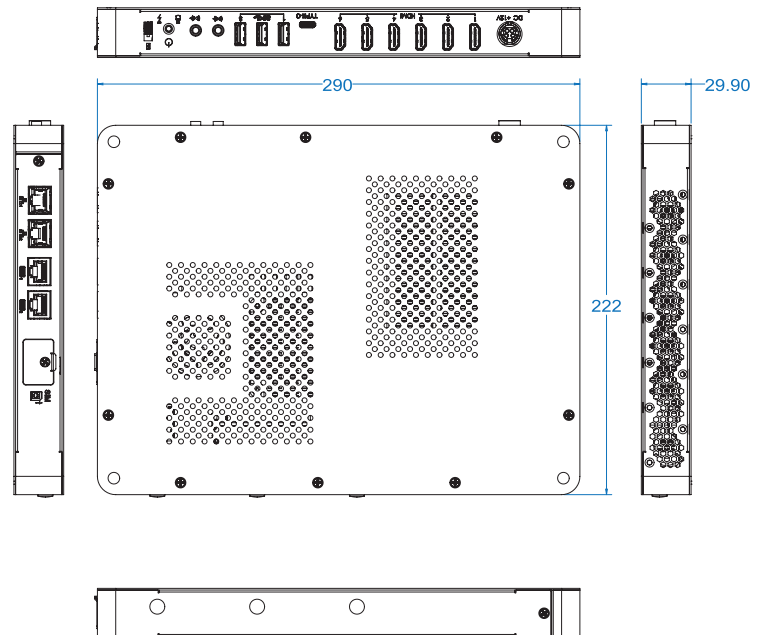
Specifications

System Mainboard	MBD636
CPU	13th/12th Gen Intel® Core™ Mobile Processors TDP ≤ 35W
CPU Socket	FCBGA1744
Chipset	SoC Integrated
Memory	DDR5-5600 SO-DIMM, dual channel
Graphics	AMD Radeon™ E8860 GPU
LAN	1x Intel® 226LM 2.5Gb with LAN Wakeup and PXE support 1x Intel® I210IT (for OOB function with COM)
Expansion Slots	1x M.2 E-Key (2230) (WiFi-6E support) 1x M.2 B-Key (3052) (1x PCI-E x1; USB 2.0, USB 3.x) 1x UIM/SIM card slot 1x M.2 M-Key(2280) (for capture card) 1x M.2 M-Key(2280) NVMe(PCIe3.0 x4 / SATA)
I/O Interface	6x HDMI 1.4b 3x USB 3.2 1x USB type-C 1x Audio connector for Line-out/Mic-in 1x Power / HDD LED 1x Power button 1x Power jack connector
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	+12V DC
Construction	Aluminum + SGCC
Weight	2 kg(4.4 lbs)
Chassis Color	Black and white
Storage	1x M.2 (2280)
Power Supply	150W power adapter
Mounting	Standard system bracket
Dimensions	290mm(W) x 222mm(D) x 29.9mm(H) 11.41"(W) x 8.74"(D) x 1.17"(H)
Operating Temperature	0°C ~ 45°C (32°F ~ 113°F)
Storage Temperature	-20°C ~ 80°C (-4°F ~ 176°F)
Relative Humidity	5%~90%
Vibration	1 grms / 5~500Hz / random operation
Certification	CE, FCC Class-A, cULus
Operating System	Windows 10 (64-bit), Ubuntu (Installation)

Ordering Information

SI-636	Signage Player with MBD636 (w/ AMD E8860 GPU for 6x HDMI), with 13th/12th Gen Intel® Core™ i7-13800 processor, 2x DDR5-5600, 256GB SSD and 150W power adapter
--------	---

Dimensions





Features

- iSMART intelligent energy-saving & Observer remote monitoring technologies
- 13th/12th Gen Intel® Core™ i7/i5/i3 Pentium® / Celeron® QC/DCprocessors
- 4x DDR4-3200 U-DIMM, Max. 128GB
- 1x HDMI 1.4 for console, 4x DisplayPort
- 1x M.2 E-Key (2230) for Wi-Fi, Bluetooth or capture card options
- 1x M.2 B-Key (3052), for 5G modules
- 2x M.2 NVMe SSD bays
- Supports OOB function via I210 LAN port (option)
- Supports TPM 2.0
- Compact and rugged industrial design

Specifications

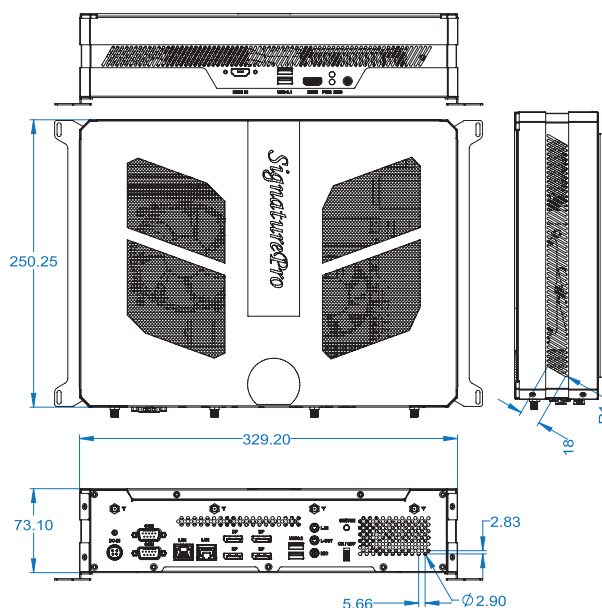
System Mainboard	MBD624
CPU	13th/12th Gen Intel® Core™ processors
CPU Socket	LGA1700
Chipset	Q670E/ R680E PCH
Memory	4x DDR4-3200 U-DIMM, Max. 128GB
Graphics	NVIDIA Ampere Architecture MXM GPU card/ up to 5888 CUDA cores/ 17.66 TFLOPS peak FP32 performance/ 184 Tensor Cores
LAN	2x Gigabit LAN
Expansion Slots	1x M.2 E-Key (2230) 1x M.2 B-Key (3052) 2x M.2 M-Key (2280/ supports NVMe) 1x UIM/SIM card slot 1x MXM 3.1 Type-B
I/O Interface	1x HDMI 1.4 for console 4x DisplayPort 2x USB 3.1 2x USB 3.2 2x RJ45 for Gigabit LAN COM1 & COM2: RS-232/422/485 (jumperless selection) 1x Audio connector for Line-in/out/MIC 1x Power / HDD LED 1x Power button 1x Power jack connector
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	+19V DC
Construction	SGCC
Weight	3.8 kg (8.38 lbs)
Chassis Color	Black and white
Storage	2x M.2 NVMe SSD drive bay
Power Supply	330W power adapter
Mounting	Standard system bracket
Dimensions	329.2mm(W) x 210mm(D) x 73.1mm(H) 129.6"(W) x 82.6"(D) x 28.7"(H)
Operating Temperature	0°C ~ 45°C (32°F ~ 113°F)
Storage Temperature	-20°C ~ 80°C (-4°F ~ 176°F)
Relative Humidity	5%~90% @45oC (non-condensing)

Vibration	SSD: 5 grms / 5~500Hz / random operation
Certification	CE/FCC class-B, UL, LVD & CCC
Operating System	Windows 10 / Linux

Ordering Information

SI-624	Signage Player with MBD624 with 13th Gen Intel® i7-13700 (2.1~4.1GHz) processor, 1x Nvidia MXM A2000 GPU card, 1x M.2 128GB, 2x 8GB DDR4-3200 U-DIMM and 330W power adapter
--------	---

Dimensions



SP-63ER

Extreme Performance Video Wall Signage Player

8th Gen Intel® Core™ Desktop Processor Video Wall Signage Player with MXM Graphics and up to 16x HDMI



SignaturePro



Features

- iSMART intelligent energy-saving & Observer remote monitoring technologies
- Ideal for displaying 8K/12K video wall or menu board contents
- Supports 8th Gen Intel® Core™ Desktop Processors
- Up to 16x HDMI 1.3 (with out Audio) with built-in hardware EDID emulation
- Flexible Video Wall configuration settings
- Compact and Robust Design

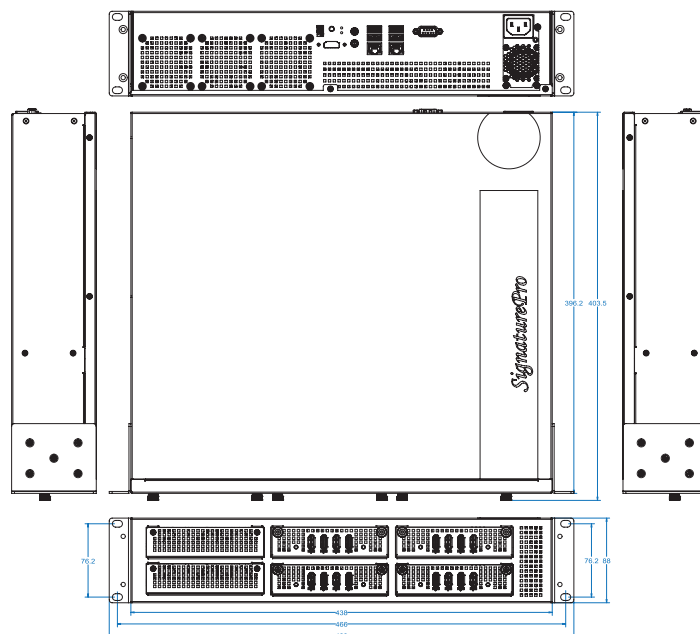
Specifications

System Mainboard	MBD63E
CPU	8th Gen Intel® Core™ i7/i5/i3 Desktop Processors, up to 4.7GHz
CPU Socket	LGA1151
Chipset	Intel® Q370 PCH
Memory	2x DDR4-2666/ 2400 DIMM, Max. 64GB
Graphics	Intel® HD Graphics P630/ MXM RTX Graphics card
LAN	LAN 1: Intel® I219LM GbE LAN 2: Intel® I211AT/ I210AT GbE
Expansion Slots	1x Mini PCI-E 1x M.2 M-Key (2280) 1x M.2 E-Key (2230) 1x MXM slot (for NVIDIA Graphics card)
I/O Interface	Up to 16x HDMI 1.3 with hardware EDID emulation (with RTX A2000 MXM Graphics card) 4x USB 3.1 ports 1x USB 3.0 ports 2x RJ45 for Gigabit LAN 1x D-Sub for RS232 2x Audio connectors for Line-out/Mic-in 1x Power/HDD LED 1x Power button 1x AC power inlet
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	AC 110V ~ 240V
Construction	SGCC
Weight	9.5 kg (20.9 lbs)
Chassis Color	Black & white
Storage	2x SATA III 2.5" HDD Dock (supports RAID 1)
Power Supply	AC 110V~240V
Mounting	Standard system bracket
Dimensions	395mm(W) x 438mm(D) x 88mm(H) 15.5"(W) x 17.2"(D) x 3.46"(H)
Operating Temperature	0°C ~ 45°C (32°F ~ 113°F)
Storage Temperature	-20°C ~ 80°C (-4°F ~ 176°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	mSATA: 5 grms / 5~500Hz / random operation
Certification	CE, FCC Class-B, cULus
Operating System	Windows 10 IoT Enterprise(64-bit)

Ordering Information

SP-63ER-16	Intel® Core™ i7-8700 Processor (12M cache, up to 3.2GHz), 1x MXM NV RTX A2000 8G GDDR5X 256-bits GPU card, 16x HDMI output, 2x 8GB DDR4-2666/2400 SO-DIMM, 2x 128GB SATA III 2.5" HDD Dock, 850W PSU
------------	--

Dimensions





Coming soon

Features

- iSMART intelligent energy-saving technology - enables power on/off scheduling and power resume functions
- 14th Gen Intel® Core™ Processors
- 3x HDMI 2.0b, 1x HDMI 2.1 with independent audio output
- Built-in hardware EDID emulation with software control
- HDMI-CEC and display monitoring functions
- 2x DDR5-4800 SO-DIMM, dual channel, Max. 64GB
- 1x M.2 B-Key (3052) for 5G or LTE modules
- 1x M.2 E-key (2230) for WiFi, Bluetooth or capture card options
- TPM 2.0, Intel® vPro and watchdog timer
- Industrial-Rrade robust, fanless and compact design

Specifications

System Mainboard	MBD664
CPU	Intel® Core™ Ultra 7/5 Processors
CPU Socket	FCBGA2049
Chipset	Integrated
Memory	2x SO-DIMM DDR5 5600 MHz, Max. 96GB
Graphics	Intel® Next Gen graphic engine, up to 8 Xe-Cores (128EU)
LAN	1x 2.5 Gb LAN 1x Gb LAN with optional OOB/In-band optional function support
Expansion Slots	1x M.2 socket (Mechanical M-key, type 2280, supports NVMe) w/ 4x PCI-E storage & SATA 1x M.2 socket (Mechanical E-key, type 2230, supports CNVi) w/ 1x PCI-E & USB 2.0 1x M.2 socket (Mechanical B-key, type 3052, supports 5G, 1x PCI-E, USB 2.0 and 3.0) 1x UIM/SIM card slot
I/O Interface	1x HDMI 2.1 + 3 x HDMI 2.0b 4x USB 3.1 @Gen 2 (USB A-Type) 2x RJ45 for Gigabit LAN 1x DB9 for RS232 serial port 1x Audio connectors for Line out 1x Power Button 1x Power Jack (+12V DC) 2x LED for Power & Storage 1x Power extension button via 2 pin Micro Fit connector
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	+12V DC
Construction	Aluminum + SGCC
Weight	TBD
Chassis Color	Black & White
Storage	1x M.2 E-key (2280)
Power Supply	84W power adaptor
Mounting	Standard system bracket
Dimensions	TBD
Operating Temperature	0°C ~ 45°C (32°F ~ 113°F)
Storage Temperature	-20° ~ 80°C (-4°F ~ 176°F)
Relative Humidity	10%~90% (non-condensing)
Vibration	M.2: 5 grms / 5~500Hz / random operation
Certification	CE, FCC Class B, cULus & CCC
Operating System	Windows 11 IoT Enterprise RS5 64-bit Ubuntu Linux 64-bit

Ordering Information

SI-664-N	Intel® Core™ Ultra 7 165U Processor, 2x 8GB DDR5 5600 SO-DIMM memory, M.2 128GB and 84W power adaptor
----------	---



Features

- iSMART intelligent energy-saving technology - enables power on/off scheduling and power resume functions
- Supports 12th Gen Intel® Core™ processor
- 4x HDMI 2.0 with independent audio output
- Built-in hardware EDID emulation function
- HDMI-CEC and display monitoring functions
- 2x DDR5-4800 SO-DIMM, dual channel, Max. 64GB
- 1x M.2 B-Key (3052) for 5G
- 1x M.2 E-key (2230) for WiFi, Bluetooth or capture card options
- TPM 2.0, vPro and watchdog timer
- Industrial-grade robust, fanless and compact design

Specifications

System Mainboard	MBD664
CPU	12th Gen Intel® Core™ processor
CPU Socket	LGA1700
Chipset	Integrated
Memory	2x SO-DIMM DDR5 4800Hz, Max. 64GB
Graphics	Intel® Iris Xe Graphics, Up to 96EU
LAN	2x LAN
Expansion Slots	1x M.2 socket (Mechanical M-key, type 2280, supports NVMe) w/ 4x PCI-E storage & SATA 1x M.2 socket (Mechanical E-key, type 2230, supports CNVi) w/ 1x PCI-E & USB 2.0 1x M.2 socket (Mechanical B-key, type 3052, supports 5G, 1x PCI-E, USB 2.0 and 3.0) 1x UIM/SIM card slot
I/O Interface	4x HDMI 2.0 3x USB 3.1 @Gen 2 (USB A-Type) 2x RJ45 for Gigabit LAN 1x RJ45 for RS232 serial port 1x Audio connectors for Line out 1x Power Button 1x Power Jack (+12V DC) 2x LED for Power & Storage
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	+12V DC
Construction	Aluminum + SGCC
Weight	TBD
Chassis Color	Black & White
Storage	1x M.2 E-key (2280)
Power Supply	84W power adaptor
Mounting	Standard system bracket
Dimensions	TBD
Operating Temperature	0°C ~ 45°C (32°F ~ 113°F)
Storage Temperature	-20° ~ 80°C (-4°F ~ 176°F)
Relative Humidity	10%~90% (non-condensing)
Vibration	M.2: 5 grms / 5~500Hz / random operation
Certification	CE, FCC Class B, cULus & CCC
Operating System	Windows 10 IoT Enterprise RS5 64-bit Ubuntu Linux 64-bit

Ordering Information

SI-664-N	12th Gen Intel® Core™ Processor, 2x 4GB DDR5 4800 SO-DIMM memory, M.2 128GB and 84W power adaptor
SI-MK3	VESA bracket



Features

- iSMART intelligent energy-saving technology - enables power on/off scheduling and power resume functions
- Supports 13th/12th Gen Intel® Core™ processors
- 1x HDMI 2.0 / 1x DP++ 1.4 / 1x DVI-D
- 2x DDR5-4800 SO-DIMM, dual channel, Max. 64GB
- 1x M.2 B-Key (3052) for 5G connectivity
- 1x M.2 E-Key (2230) for WiFi, Bluetooth or capture card options
- TPM 2.0, vPro and watchdog timer
- Industrial-grade robust and compact design

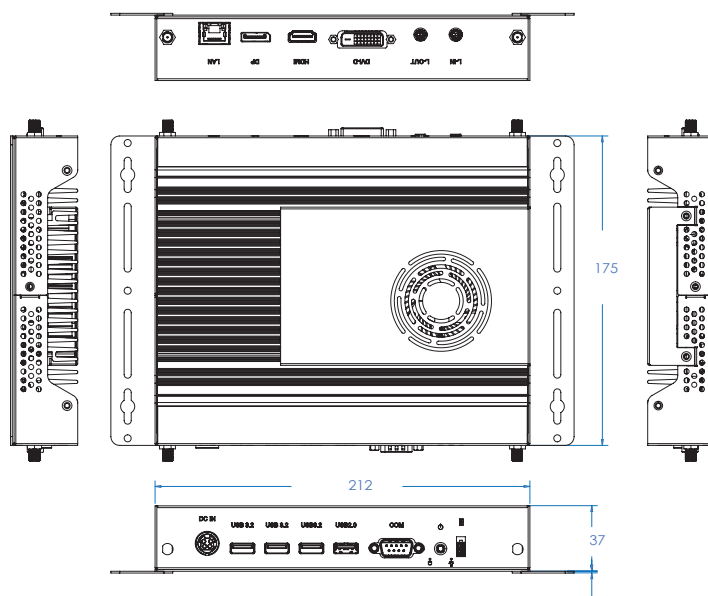
Specifications

System Mainboard	MBD663
CPU	13th/12th Gen Intel® Core™ i / Celeron™ series (Raptor Lake PS / Alder Lake PS) processor TDP ≤ 28W
CPU Socket	LGA1700
Chipset	Integrated
Memory	2x DDR5 4800 SODIMM / Max. 64GB (without ECC support)
Graphics	Iris® Xe, up to 96EU
LAN	1x Gb LAN (Isolation/PXE support) (Intel® 226LM 2.5Gb with LAN Wakeup)
Expansion Slots	1x M.2 E-Key (2230) (WiFi-6E support) (2x PCI-E x1, USB 2.0) 1x M.2 B-Key (3052) (PCI-E x1, USB 2.0, USB 3.x) (supports Sierra LTE module). Refer to MBD603 1x UIM/SIM card slot 1x M.2 M-Key (2280) (PCI-E x4) 1x M.2 NVMe (PCI-E-3.0 x4 / SATA)
I/O Interface	1x HDMI 2.0 / 1x DP++ 1.4 / 1x DVI-D 3x USB 3.2 (USB Type-A) 1x USB 2.0 (USB Type-A) 1x RJ45 for Gigabit LAN 1x DB9 for RS232 serial port 2x Audio connectors for Line in/Line out 1x Power button 1x Power switch connector 1x Power jack (+12V DC) 2x LED for power & storage
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	+12V DC
Construction	Aluminum + SGCC
Weight	1.5 kg(3.3lbs)
Chassis Color	Black & White
Storage	1x M.2 M-key (2280)
Power Supply	150W power adapter
Mounting	Standard system bracket
Dimensions	175mm(W) x 212mm(D) x 37mm(H)
Operating Temperature	0°C ~ 45°C (32°F ~ 113°F)
Storage Temperature	-20° ~ 80°C (-4°F ~ 176°F)
Relative Humidity	10%~90% (non-condensing)
Vibration	M.2: 5 grms / 5~500Hz / random operation
Certification	CE, FCC Class-B, cULus & CCC
Operating System	Windows 10 IoT Enterprise RS5 64-bit Ubuntu Linux 64-bit

Ordering Information

SI-663	Intel® Core™ i7-1265UL Processor, 2x 8GB DDR5 4800 SO-DIMM memory, M.2 256GB and 150W power adapter
SI-MK3	VESA bracket

Dimensions





Features

- iSMART intelligent energy-saving technology - enables power on/off scheduling and power resume functions
- Supports 13th/12th Gen Intel® Core™ processor
- 1x HDMI 2.0 / 1x DP++ 1.4 / 1x DVI-D
- 2x DDR5-4800 SO-DIMM, dual channel, Max. 64GB
- 1x M.2 B-Key (3052) for 5G connectivity
- 1x M.2 E-Key (2230) for WiFi, Bluetooth or capture card options
- TPM 2.0, vPro and watchdog timer
- Industrial-grade robust, fanless and compact design

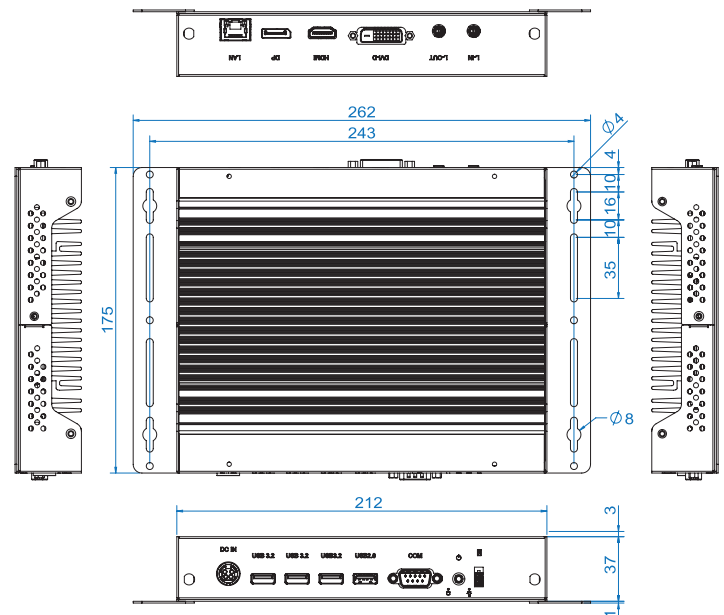
Specifications

System Mainboard	MBD663
CPU	13th/12th Gen Intel® Core™ i / Celeron™ series (Raptor Lake PS / Alder Lake PS) processor TDP ≤ 28W
CPU Socket	LGA1700
Chipset	Integrated
Memory	2x DDR5 4800 SODIMM / Max. = 64GB (ECC not supported)
Graphics	Iris® Xe, up to 96EU
LAN	1x Gigabit LAN (Isolation/PXE support) (Intel® 226LM 2.5Gb with LAN Wakeup)
Expansion Slots	1x M.2 E-Key (2230) (WiFi-6E support) (2x PCI-E x1, USB 2.0) 1x M.2 B-Key (3052) (PCI-E x1; USB 2.0, USB 3.x) (supports Sierra LTE module), refer to MBD603 1x UIM / SIM card slot 1x M.2 M-Key (2280) (PCI-E x4) 1x M.2 NVMe (PCI-E3.0 x4 / SATA)
I/O Interface	1x HDMI 2.0 / 1x DP++ 1.4 / 1x DVI-D 3x USB 3.2 (USB Type-A) 1x USB 2.0 (USB Type-A) 1x RJ45 for Gigabit LAN 1x DB9 for RS232 serial port 2x Audio connectors for Line in/Line out 1x Power button 1 x Power switch connector 1x Power jack (+12V DC) 2x LED for power & storage
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	+12V DC
Construction	Aluminum + SGCC
Weight	1.6 kg(3.5lbs)
Chassis Color	Black & White
Storage	1x M.2 M-key (2280)
Power Supply	150W power adapter
Mounting	Standard system bracket
Dimensions	175mm(W) x 212mm(D) x 37mm(H)
Operating Temperature	0°C ~ 45°C (32°F ~ 113°F)
Storage Temperature	-20° ~ 80°C (-4°F ~ 176°F)
Relative Humidity	10%~90% (non-condensing)
Vibration	M.2: 5 grms / 5~500Hz / random operation
Certification	CE, FCC Class-B, cULus & CCC
Operating System	Windows 10 IoT Enterprise RS5 64-bit Ubuntu Linux 64-bit

Ordering Information

SI-663-N	Intel® Core™ i7-1265UL Processor, 2x 8GB DDR5 4800 SO-DIMM memory, M.2 256GB and 150W power adapter
SI-MK3	VESA bracket

Dimensions





Specifications

System Mainboard	MBD654
CPU	11th Gen Intel® Core™ / Celeron® U-Series (TGL-U Platform) Processors
CPU Socket	BGA-1449
Chipset	SoC Integrated
Memory	2x DDR4-3200 SO-DIMM, dual channel, Max. 64GB
Graphics	Gen12 integrated Graphics, Up to 96EU
LAN	1st: 1x Intel® I211AT/ I210AT 2nd: 1x Intel® I219LM (I7/I5) 1x Intel® I219V (I3)
Expansion Slots	1x M.2 E-Key (2230) 1x M.2 B-Key (3042) 1x UIM/SIM card slot
I/O Interface	4x HDMI 2.0 1x USB 2.0 (USB Type-A) 3x USB 3.1 @Gen 2 (USB Type-A) 2x RJ45 for Gigabit LAN 1x RJ45 for RS232 serial port 1x Audio connector for Line-out 1x Power button 1x Power jack (+12V DC) 2x Power/HDD LED
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	+12V DC
Construction	Aluminum + SGCC
Weight	1.8 kg (3.7 lbs)
Chassis Color	Black & White
Storage	1x M.2 M-Key (2280) supports NVMe (PCI-E x4 / SATA)
Power Supply	84W power adaptor
Mounting	Standard system bracket
Dimensions	200.8mm(W) x 139.3mm(D) x 41.2mm(H) 7.90"(W) x 5.48"(D) x 1.62"(H)
Operating Temperature	0°C ~ 45°C (32°F ~ 113°F)
Storage Temperature	-20° ~ 80°C (-4°F ~ 176°F)
Relative Humidity	10%~90% (non-condensing)
Vibration	M.2: 5 grms / 5~500Hz / random operation
Certification	CE, FCC Class-B, UKCA, cULus, LVD
Operating System	Windows 10 IoT Enterprise RS5(64-bit) Ubuntu Linux(64-bit)

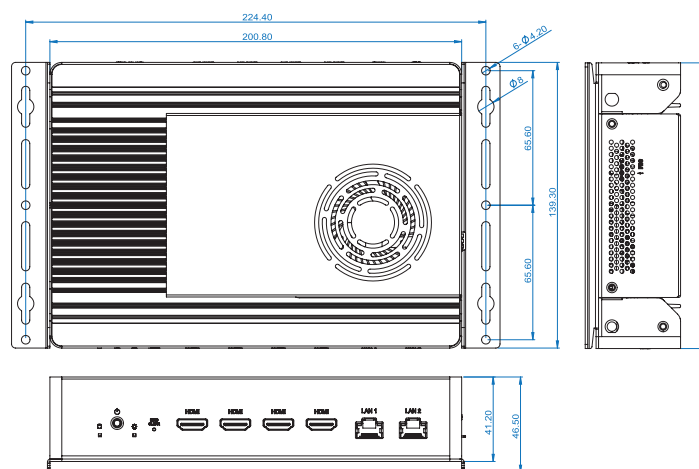
Features

- iSMART intelligent energy-saving & Observer remote monitoring technologies
- 11th Gen Intel® Core™ U-Series Processors
- 4x HDMI 2.0 with independent audio output
- Built-in CEC and hardware EDID emulation functions with the software setting mode
- 2x DDR4-3200 SO-DIMM, dual channel, Max. 64GB
- 1x M.2 B-Key (3042) for 4G LTE options
- 1x M.2 E-Key (2230) for Wi-Fi, Bluetooth or capture card options
- 1x M.2 M-Key (2280) for storage
- Supports Intel® iAMT(11.0), TPM 2.0 and watchdog timer
- Slim and segregated ventilation design

Ordering Information

SI-654-I7	Intel® Core™ i7-1185G7E processor (12M Cache, up to 4.40 GHz), 2x 4GB DDR4-3200 SO-DIMM, M.2 128GB and 84W power adaptor
SI-654-I5	Intel® Core™ i5-1145G7E processor (8M Cache, up to 4.1 GHz), 2x 4GB DDR4-3200 SO-DIMM, M.2 128GB and 84W power adaptor
SI-654-I3	Intel® Core™ i3-1115G4E processor (6M Cache, up to 3.9 GHz), 2x 4GB DDR4-3200 SO-DIMM, M.2 128GB and 84W power adaptor
SI-MK3B	TV Mount

Dimensions





SI-654-N VIDEO

Specifications

System Mainboard	MBD654
CPU	11th Gen Intel® Core™ / Celeron® U-Series (TGL-U Platform) Processors TDP ≤ 15W
CPU Socket	BGA-1449
Chipset	SoC Integrated
Memory	2x DDR4-3200 SO-DIMM, dual channel, Max. 64GB
Graphics	Gen12 integrated Graphics, Up to 96EU
LAN	1st: 1x Intel® I211AT/ I210AT 2nd: 1x Intel® I219LM (I7/I5) 1x Intel® I219V (I3)
Expansion Slots	1x M.2 E-Key (2230) 1x M.2 B-Key (3042) 1x UIM/SIM card slot
I/O Interface	4x HDMI 2.0 1x USB 2.0 (USB Type-A) 3x USB 3.1 @Gen 2 (USB Type-A) 2x RJ45 for Gigabit LAN 1x RJ45 for RS232 serial port 1x Audio connector for Line-out 1x Power button 1x Power jack (+12V DC) 2x Power/HDD LED
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	+12V DC
Construction	Aluminum + SGCC
Weight	1.7 kg (3.7 lbs)
Chassis Color	Black & White
Storage	1x M.2 M-Key (2280) supports NVMe
Power Supply	84W power adaptor
Mounting	Standard system bracket
Dimensions	200.8mm(W) x 139.3mm(D) x 41.2mm(H) 7.90"(W) x 5.48"(D) x 1.62"(H)
Operating Temperature	0°C ~ 45°C (32°F ~ 113°F)
Storage Temperature	-20° ~ 80°C (-4°F ~ 176°F)
Relative Humidity	10%~90% (non-condensing)
Vibration	M.2: 5 grms / 5~500Hz / random operation
Certification	CE, FCC Class-B, UKCA, cULus, CCC, LVD
Operating System	Windows 10 IoT Enterprise RS5(64-bit) Ubuntu Linux(64-bit)

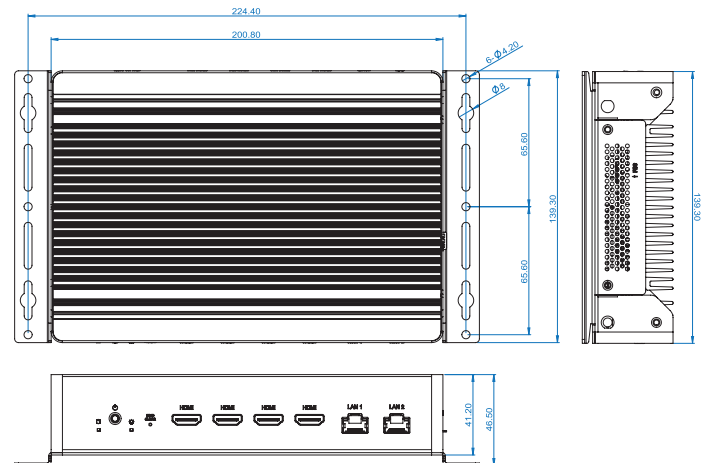
Features

- iSMART intelligent energy-saving & Observer remote monitoring technologies
- 11th Gen Intel® Core™ U-Series Processors
- 4x HDMI 2.0 with independent audio output
- Built-in CEC and hardware EDID emulation functions with the software configuration mode
- 2x DDR4-3200 SO-DIMM, dual channel, Max. 64GB
- 1x M.2 B-Key (3042) for 4G LTE options
- 1x M.2 E-Key (2230) for Wi-Fi, Bluetooth or capture card options
- 1x M.2 M-Key (2280) for storage
- Supports Intel® iAMT(11.0), TPM 2.0 and watchdog timer
- Industrial-grade robust fanless design

Ordering Information

SI-654-N7	Intel® Core™ i7-1185G7E processor (12M Cache, up to 4.40 GHz), 2x 4GB DDR4-3200 SO-DIMM, M.2 128GB and 84W power adaptor, TDP ≤ 15W
SI-654-N5	Intel® Core™ i5-1145G7E processor (8M Cache, up to 4.1 GHz), 2x 4GB DDR4-3200 SO-DIMM, M.2 128GB and 84W power adaptor, TDP ≤ 15W
SI-654-N3	Intel® Core™ i3-1115G4E processor (6M Cache, up to 3.9 GHz), 2x 4GB DDR4-3200 SO-DIMM, M.2 128GB and 84W power adaptor, TDP ≤ 15W
SI-MK3B	TV Mount

Dimensions



SI-652-N

Mid-Range Signage Player

14th Gen Intel® Core™ Processors Fanless Signage Player
with Intel® Graphics built-in and 2x HDMI



Coming soon



Features

- iSMART intelligent energy-saving technology - enables power on/off scheduling and power resume functions
- Support 14th Gen Intel® Core™ processors
- 1x HDMI 2.1 + 1x HDMI 2.0b with independent audio output
- Built-in hardware EDID emulation function
- HDMI-CEC and display monitoring functions
- 2x DDR5 SO-DIMM, Max. 64GB
- 1x M.2 B-Key (3052) for 5G
- 1x M.2 E-Key (2230) for WiFi, Bluetooth or capture card options
- TPM 2.0, vPro and watchdog timer
- Industrial-grade robust, fanless and compact design

Specifications

System Mainboard	MBD652
CPU	14th Gen Intel® Core™ Processors
CPU Socket	FCBGA1744
Chipset	Integrated
Memory	2x DDR5 SO-DIMM, Max. 64GB
Graphics	Intel® Graphics
LAN	2x Gigabit LAN ports
Expansion Slots	1x M.2 socket (Mechanical E-Key, type 2230, supports CNVi) 1x M.2 socket (Mechanical B-Key, type 3052, supports 5G/LTE)
I/O Interface	1x HDMI 2.1 + 1x HDMI 2.0b 3x USB 3.2 + 1x USB 2.0 (Type-A) 2x RJ45 for Gigabit LAN 1x RJ45 for RS232 serial port 1x Audio connectors for Line out 1x Power button 1x Power jack (+12V DC) 1x LED for Power
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	+12V DC
Construction	Aluminum + SGCC
Weight	TBD
Chassis Color	Black & White
Storage	1x M.2 M-Key (2280)
Power Supply	84W power adaptor
Mounting	Standard system bracket
Dimensions	TBD
Operating Temperature	0°C~ 45°C (32°F~113°F)
Storage Temperature	-20° ~ 80°C (-4°F~176°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	M.2: 5 grms / 5~500Hz / random operation
Certification	CE, FCC Class-A
Operating System	Windows 11 IoT Enterprise RS5 64-bit Ubuntu Linux 64-bit

Ordering Information

SI-652-N	Supports 14th Gen Intel® Core™ Processors, 2x 8GB DDR5 5600 SO-DIMM memory, M.2 128GB and 84W power adaptor
----------	---



Features

- iSMART intelligent energy-saving & Observer remote monitoring technologies
- 8th Gen Intel® Core™ U-Series Processors
- 1x HDMI 2.0 + 1x Active DisplayPort 1.2 with independent audio output
- 2x DDR4-2400 SO-DIMM, dual channel, Max. 32GB
- 1x M.2 B-Key (3042) for 4G LTE options
- 1x M.2 E-Key (2230) for Wi-Fi or Bluetooth card options
- 1x M.2 M-Key (2280) for storage
- TPM 2.0, vPro and watchdog timer
- Slim & compact fanless design

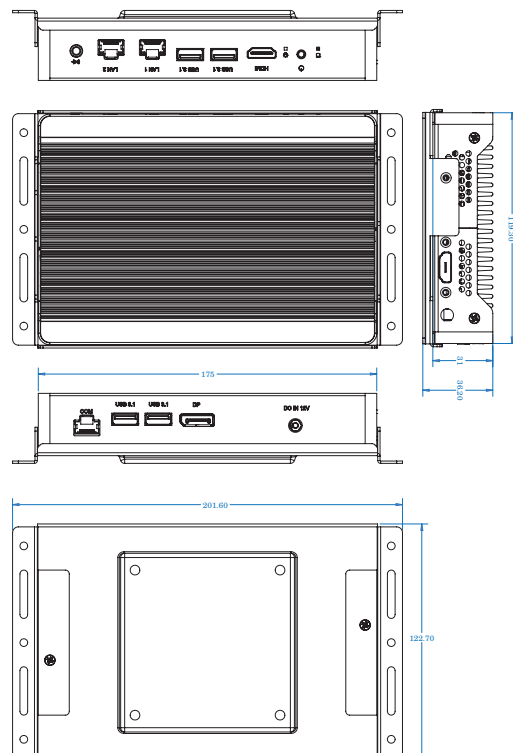
Specifications

System Mainboard	MBD642
CPU	8th Gen Intel® Core™ U-Series Processors TDP ≤ 25W
CPU Socket	FCBGA1528
Chipset	SoC Integrated
Memory	2x SO-DIMM DDR4-2400Hz, dual channel, Max. 32GB
Graphics	Intel® UHD Graphics 620
LAN	1x Intel® I219LM Gigabit LAN 1x Intel® I211AT/ I210AT Gigabit LAN
Expansion Slots	1x B-Key (3042) 1x E-Key (2230)
I/O Interface	1x HDMI 2.0 1x DP 4x USB 3.1 (Gen2) 2x RJ45 for Gigabit LAN 1x RJ45 for RS232 serial port
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	+12V DC
Construction	Aluminum + SGCC
Weight	1 kg (2.20 lbs)
Chassis Color	Black & White
Storage	1x M.2 E-Key (2280)
Power Supply	60W power adaptor
Mounting	Standard system bracket
Dimensions	175mm(W) x 119.3mm(D) x 31mm(H) 6.88"(W) x 4.69"(D) x 1.22"(H)
Operating Temperature	0°C ~ 45°C (32°F ~ 113°F)
Storage Temperature	-20° ~ 80°C (-4°F ~ 176°F)
Relative Humidity	10%~90% (non-condensing)
Vibration	M.2: 5 grms / 5~500Hz / random operation
Certification	CE, FCC Class-B, cULus, CCC, LVD
Operating System	Windows 10 IoT Enterprise RS5(64-bit) Ubuntu Linux(64-bit)

Ordering Information

SI-642-NT	Intel® Core™ i7-8665UE processor (8M Cache, up to 4.40 GHz), 2x 4GB DDR4-2400 SO-DIMM, M.2 128GB and 60W power adaptor
SI-642-N8365T	Intel® Core™ i5-8365UE processor (6M Cache, up to 4.10 GHz), 2x 4GB DDR4-2400 SO-DIMM, M.2 128GB and 60W power adaptor
SI-642-N8145T	Intel® Core™ i3-8145UE processor (4M Cache, up to 3.90 GHz), 2x 4GB DDR4-2400 SO-DIMM, M.2 128GB and 60W power adaptor
SI-642-N4305T	Intel® Celeron® processor 4305UE (2M Cache, 2.00 GHz), 2x 4GB DDR4-2400 SO-DIMM, M.2 128GB and 60W power adaptor
SI-MK3C	VESA bracket

Dimensions





Coming soon

Features

- AMD Ryzen™ Embedded 8000 series Processors
- Radeon RDNA 3 Graphics and XDNA Neural Processing Unit
- 4x HDMI with independent audio output support
- iSMART intelligent energy-saving & Observer remote monitoring technologies
- Built-in CEC and hardware EDID emulation functions with the software setting mode
- 2x DDR5-5600 SO-DIMM, dual channel, Max. 128GB
- 1x M.2 B-Key for 5G or LTE options
- 1x M.2 E-Key for Wi-Fi, Bluetooth or capture card options
- 1x M.2 M-Key for storage
- Supports TPM 2.0 and watchdog timer
- Slim and segregated flow ventilation design

Specifications

System Mainboard	MBD344
CPU	AMD Ryzen™ Embedded 8000 series Processors
CPU Socket	FP7r BGA package
Chipset	SoC Integrated
Memory	2x DDR5-5600, SO-DIMM, dual channel, Max. 128GB
Graphics	Radeon™ RDNA 3 Graphics
LAN	2x Gigabit LAN controller (One support OOB function)
Expansion Slots	1x M.2 E-Key (2230) 1x M.2 B-Key (3052) 1x M.2 M-Key (2280)
I/O Interface	4x HDMI with hardware EDID emulation & CEC function 3x USB 3.1 @Gen 2 (USB Type-A) 2x RJ45 for Gigabit LAN 1x RJ45 for RS-232 serial port 1x Audio connector for Line-out 1x Power button 1x Power jack (+12V DC) 2x Power/HDD LED
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	+12V DC-IN
Construction	Aluminum + SGCC
Weight	2.1 kg (4.63 lbs)
Chassis Color	Black & white
Storage	1x M.2 M-Key (2280)
Power Supply	84W power adaptor
Mounting	Slim design with wall mounting holes
Dimensions	TBD
Operating Temperature	0°C ~ 45°C (32°F ~ 113°F)
Storage Temperature	-20°C ~ 80°C (-4°F ~ 176°F)
Relative Humidity	10%~90% (non-condensing)
Vibration	M.2: 5 grms / 5~500Hz / random operation
Certification	CE, FCC Class A, UKCA, cULus, CCC
Operating System	Win11 IoT Enterprise(64-bit) Ubuntu Linux(64-bit)

Ordering Information

SI-344	Signage Player with MBD344 w/ Ryzen™ 7 Pro 8845HS, 3.8GHz/ 5.1GHz; 2x 8GB DDR5-5600 SO-DIMM memory, M.2 128GB, 84W power adaptor
--------	--



Features

- AMD Ryzen™ Embedded V2000 Series Processors
- Vega GPU with up to 7 Compute units
- 4x HDMI 2.0 with independent audio output support
- iSMART intelligent energy-saving & Observer remote monitoring technologies
- Built-in CEC and hardware EDID emulation functions with the software setting mode
- 2x DDR4-3200 SO-DIMM, dual channel, Max. 64GB
- 1x M.2 B-Key for 5G or LTE options
- 1x M.2 E-Key for Wi-Fi, Bluetooth or capture card options
- 1x M.2 M-Key for storage
- Supports TPM 2.0 and watchdog timer
- Slim and segregated flow ventilation design

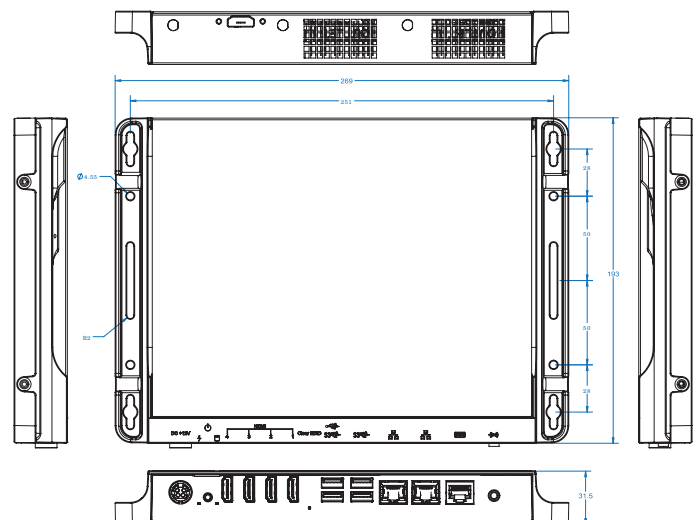
Specifications

System Mainboard	MBD334
CPU	AMD Ryzen™ Embedded V2000 Series Processors
CPU Socket	FP6 BGA package, 25mm x 35mm
Chipset	SoC Integrated
Memory	2x DDR4-3200, SO-DIMM, dual channel, Max. 64GB
Graphics	Next-gen AMD Vega GPU integrated
LAN	2x Realtek RTL8111H-CG Gigabit LAN controller
Expansion Slots	1x M.2 E-Key (2230) 1x M.2 B-Key (3052) 1x UIM/SIM card slot
I/O Interface	4x HDMI 2.0 with hardware EDID emulation & CEC function 4x USB 3.1 @Gen 2 (USB Type-A) 2x RJ45 for Gigabit LAN 1x RJ45 for RS-232 serial port 1x Audio connector for Line-out 1x Power button 1x Power jack (+12V DC) 2x Power/HDD LED
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	+12V DC-IN
Construction	Aluminum + SGCC
Weight	2.1 kg (4.63 lbs)
Chassis Color	Black & white
Storage	1x M.2 M-Key (2280)
Power Supply	150W power adaptor
Mounting	Slim design with wall mounting holes
Dimensions	269mm(W) x 193mm(D) x 31.5mm(H) 10.59"(W) x 7.59"(D) x 1.24"(H)
Operating Temperature	0°C ~ 45°C (32°F ~ 113°F)
Storage Temperature	-20°C ~ 80°C (-4°F ~ 176°F)
Relative Humidity	10%~90% (non-condensing)
Vibration	M.2: 5 grms / 5~500Hz / random operation
Certification	CE, FCC Class A, UKCA, cULus, CCC
Operating System	Win11 IoT Enterprise(64-bit) Win10 IoT Enterprise(64-bit) Ubuntu Linux(64-bit)

Ordering Information

SI-334	Signage Player with MBD334 w/ AMD Ryzen™ Embedded V2748 4.25GHz/2.9GHz; 2x 4GB DDR4-3200 SO-DIMM, M.2 128GB, 150W power adaptor
SI-334-46	Signage Player with MBD334 w/ AMD Ryzen™ Embedded V2546, 3.95GHz/3.0GHz; 2x 4GB DDR4-3200 SO-DIMM memory, M.2 128GB, 150W power adaptor
SI-MK3A	Mounting bracket
SI-1U-AD	1U Rackmount kit
HDMI Cable Holder	SI-334 HDMI bracket kit

Dimensions





SI-324 VIDEO



Specifications

System Mainboard	MBD324
CPU	AMD Ryzen™ Embedded V1000 Series Processors
CPU Socket	FP5 BGA package, 37x29mm
Chipset	SoC Integrated
Memory	2x DDR4-2400 SO-DIMM, dual channel, Max. 32GB
Graphics	Next-gen AMD Vega GPU integrated
LAN	2x Realtek RTL8111H-CG Gigabit LAN controller
Expansion Slots	1x Mini PCI-E (full-size) 1x M.2 E-Key (2230) 1x SIM card slot
I/O Interface	4x HDMI 2.0 with hardware EDID emulation 2x USB 3.0, 1x USB 2.0 2x RJ45 for Gigabit LAN 1x RJ45 for RS-232 serial port 1x Audio connectors for Line-out 1x Power / HDD LED 1x Power button 1x Power jack connector
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	+12V DC-IN
Construction	Aluminum + SGCC
Weight	2.1 kg (4.63 lbs)
Chassis Color	Black & white
Storage	1x M.2 M-Key (2280)
Power Supply	150W power adaptor
Mounting	Slim design with wall mounting holes
Dimensions	269mm(W) x 193mm(D) x 31.5mm(H) 10.59"(W) x 7.59"(D) x 1.24"(H)
Operating Temperature	0°C ~ 45°C (32°F ~ 113°F)
Storage Temperature	-20°C ~ 80°C (-4°F ~ 176°F)
Relative Humidity	10%~90% (non-condensing)
Vibration	M.2: 5 grms / 5~500Hz / random operation
Certification	CE, FCC Class-B, cULus, CCC
Operating System	Win10 IoT Enterprise (64-bit) Ubuntu Linux (64-bit)

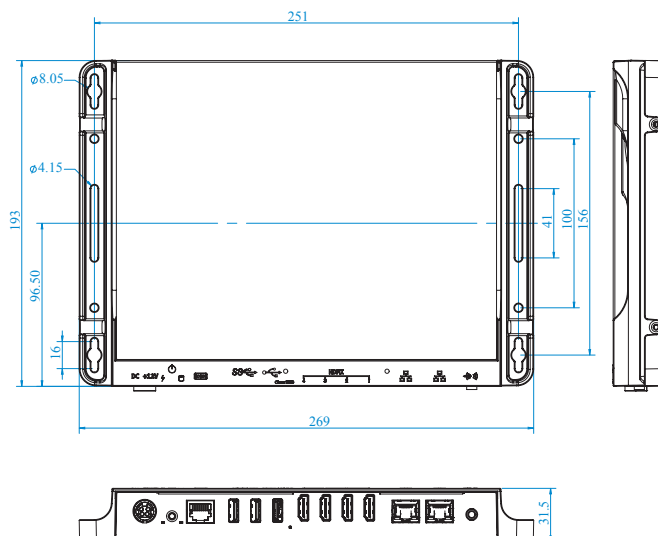
Features

- iSMART intelligent energy-saving & Observer remote monitoring technologies
- AMD Ryzen™ Embedded V1000 Series Processors
- Vega GPU with up to 11 compute units
- 4x HDMI 2.0 with independent Audio output support
- Built-in hardware EDID emulation function with the software setting mode
- 2x DDR4-2400 SO-DIMM, dual channel, Max. 32GB
- 1x Mini PCI-E (full-size) for Wi-Fi, Bluetooth, 4G LTE or capture card options
- 1x M.2 E-Key (2230) for Wi-Fi and Bluetooth options
- 1x M.2 M-Key (2280) for storage
- Segregated flow ventilation design

Ordering Information

SI-324	Signage Player with MBD324 w/ AMD Ryzen™ Embedded V1807B 3.35GHz/3.8GHz ; 2x 4GB DDR4-2400 SO-DIMM, M.2 128GB, 150W power adaptor
SI-324-R8	Signage Player with MBD324-R8 w/ AMD Ryzen™ Embedded V1807B 3.35GHz/3.8GHz ; 2x 4GB DDR4-2400 SO-DIMM, M.2 128GB, 150W power adaptor
SI-324-16	Signage Player with MBD324 w/ AMD Ryzen™ Embedded V1605B 2.0GHz/3.6GHz ; 2x 4GB DDR4-2400 SO-DIMM, M.2 128GB, 150W power adaptor
SI-324-16R8	Signage Player with MBD324-R8 w/ AMD Ryzen™ Embedded V1605B 2.0GHz/3.6GHz ; 2x 4GB DDR4-2400 SO-DIMM, M.2 128GB, 150W power adaptor
SI-MK3A	Mounting bracket
SI-1U-AD	1U Rackmount kit
HDMI Cable Holder	SI-304/SI-324 HDMI bracket kit

Dimensions





SI-324-N VIDEO

Specifications

System Mainboard	MBD324
CPU	AMD Ryzen™ Embedded V1000 2.0GHz/3.6GHz or R2000 2.1GHz/3.5GHz Processors (TDP ≤ 25W)
CPU Socket	FP5 BGA package, 35mm x 25mm, 0.8mm pitch
Chipset	SoC Integrated
Memory	2x DDR4-2400 SO-DIMM, dual channel, Max. 32GB
Graphics	Next-Gen AMD Radeon™ HD GPU integrated
LAN	2x Realtek RTL8111H-CG Gigabit LAN controller
Expansion Slots	1x Mini PCI-E (full-size) 1x M.2 E-Key (2230) 1x SIM card slot
I/O Interface	4x HDMI 2.0 with hardware EDID emulation 2x USB 3.0, 1x USB 2.0 2x RJ45 for Gigabit LAN 1x RJ45 for RS-232 serial port 1x Audio connectors for Line-out 1x Power / HDD LED 1x Power button 1x Power jack connector
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	+12V DC-IN
Construction	Aluminum + SGCC
Weight	1.5 kg (3.31 lbs)
Chassis Color	Black & white
Storage	1x M.2 M-Key (2280) (SATA signal only)
Power Supply	84W power adaptor
Mounting	Standard system bracket
Dimensions	215.8mm(W) x 164mm(D) x 45mm(H) 8.49"(W) x 6.45"(D) x 1.77"(H)
Operating Temperature	0°C ~ 45°C (32°F ~ 113°F)
Storage Temperature	-20°C ~ 80°C (-4°F ~ 176°F)
Relative Humidity	10%~90% (non-condensing)
Vibration	M.2: 5 grms / 5~500Hz / random operation
Certification	CE, FCC Class-B, cULus
Operating System	Win10 IoT Enterprise(64-bit) Ubuntu Linux(64-bit)

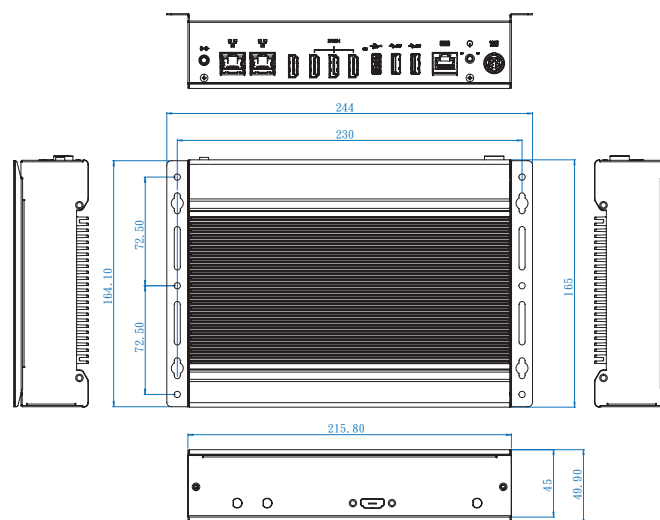
Features

- iSMART intelligent energy-saving & Observer remote monitoring technologies
- AMD Ryzen™ Embedded R2000 / V1000 Series Processors (TDP ≤ 25W)
- Vega GPU with up to 8 compute units
- 4x HDMI 2.0 with independent Audio output support
- Built-in hardware EDID emulation function with software setting mode
- 2x DDR4-2400 SO-DIMM, dual channel, Max. 32GB
- 1x Mini PCI-E (full-size) for Wi-Fi, Bluetooth, 4G LTE or capture card options
- 1x M.2 E-Key (2230) for Wi-Fi and Bluetooth options
- 1x M.2 M-Key (2280) for storage
- Compact and fanless design

Ordering Information

SI-324-N	Signage Player with MBD324 w/ AMD Ryzen™ Embedded V1605B 2.0GHz/3.6GHz; 2x 4GB DDR4-2400 SO-DIMM memory, M.2 128GB, 84W power adaptor
SI-324-NR8	Signage Player with MBD324-R8 w/ AMD Ryzen™ Embedded V1605B 2.0GHz/3.6GHz; 2x 4GB DDR4-2400 SO-DIMM memory, M.2 128GB, 84W power adaptor
SI-324-N2314	Signage Player with MBD324-R8 w/ AMD Ryzen™ Embedded R2314 2.1GHz/3.5GHz; 2x 4GB DDR4 SO-DIMM memory, M.2 128GB, 84W power adaptor

Dimensions





SI-323-N VIDEO

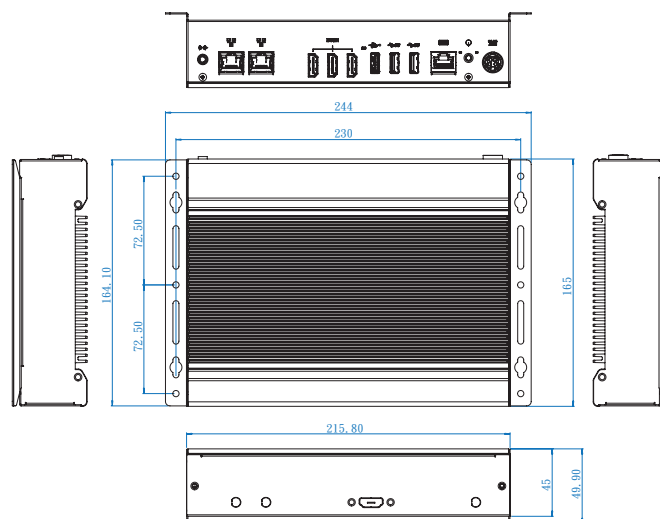
Features

- iSMART intelligent energy-saving & Observer remote monitoring technologies
- AMD Ryzen™ Embedded R2000 / R1000 Series Processors (TDP ≤ 25W)
- Vega GPU with up to 3 compute units
- 3x HDMI 2.0 with independent Audio output support
- Built-in hardware EDID emulation function with software setting mode
- 2x DDR4-2400 SO-DIMM, dual channel, Max. 32GB
- 1x Mini PCI-E (full-size) for Wi-Fi, Bluetooth, 4G LTE or capture card options
- 1x M.2 E-Key (2230) for Wi-Fi, Bluetooth or capture card options
- 1x M.2 M-Key (2280) for storage
- Compact and fanless design

Ordering Information

SI-323-N	Signage Player with MBD323 w/ AMD Ryzen™ Embedded R1606G 2.6GHz/3.5GHz; 2x 4GB DDR4-2400 SO-DIMM memory, M.2 128GB, 84W power adaptor
SI-323-NR8	Signage Player with MBD323-R8 w/ AMD Ryzen™ Embedded R1606G 2.6GHz/3.5GHz; 2x 4GB DDR4-2400 SO-DIMM memory, M.2 128GB, 84W power adaptor
SI-323-N2312	Signage Player with MBD323-R8 w/AMD Ryzen™ Embedded R2312 2.7GHz/3.5GHz; 2x 4GB DDR4 SO-DIMM memory, M.2 128GB, 84W power adaptor

Dimensions



Specifications

System Mainboard	MBD323
CPU	AMD Ryzen™ Embedded R1000 2.6GHz/3.5GHz or R2000 2.7GHz/3.5GHz Processors (TDP ≤ 25W)
CPU Socket	FP5 BGA package, 35mm x 25mm, 0.8mm pitch
Chipset	SoC Integrated
Memory	2x DDR4-2400 SO-DIMM, dual channel, Max. 32GB
Graphics	Next-Gen AMD Radeon™ HD GPU integrated
LAN	2x Realtek RTL8111H-CG Gigabit LAN controller
Expansion Slots	1x Mini PCI-E (full-size) 1x M.2 E-Key (2230) 1x SIM card slot
I/O Interface	3x HDMI 2.0 with hardware EDID emulation 2x USB 3.0, 1x USB 2.0 2x RJ45 for Gigabit LAN 1x RJ45 for RS-232 serial port 1x Audio connectors for Line-out 1x Power / HDD LED 1x Power button 1x Power jack connector
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	+12V DC-IN
Construction	Aluminum + SGCC
Weight	1.5 kg (3.31 lbs)
Chassis Color	Black & white
Storage	1x M.2 M-Key (2280) (SATA signal only)
Power Supply	84W power adaptor
Mounting	Standard system bracket
Dimensions	215.8mm(W) x 164mm(D) x 45mm(H) 8.49"(W) x 6.45"(D) x 1.77"(H)
Operating Temperature	0°C ~ 45°C (32°F ~ 113°F)
Storage Temperature	-20°C ~ 80°C (-4°F ~ 176°F)
Relative Humidity	10%~90% (non-condensing)
Vibration	M.2: 5 grms / 5~500Hz / random operation
Certification	CE, FCC Class-B, cULus
Operating System	Win10 IoT Enterprise(64-bit) Ubuntu Linux(64-bit)



Features

- iSMART intelligent energy-saving technology - enables power on/off scheduling and power resume functions
- Intel® Atom® x7000E & x7000RE Series / N-series / Core™ i3-N305 processors (formerly Alder Lake-N)
- 1x DDR5-5600 SO-DIMM, dual channel, Max. 16GB (Max data rate DDR5-4800)
- 2x HDMI 2.0 with independent audio output
- Built-in CEC and hardware EDID emulation functions with software setting mode
- Supports PDPC (Peripheral Device Power Control) function
- Supports OOB function via I210IT LAN port (optional)
- 1x M.2 E-Key (2230) for WiFi, Bluetooth options
- 1x M.2 M-Key (2280) for storage
- TPM 2.0 and watchdog timer
- Industrial-grade robust and compact fanless design

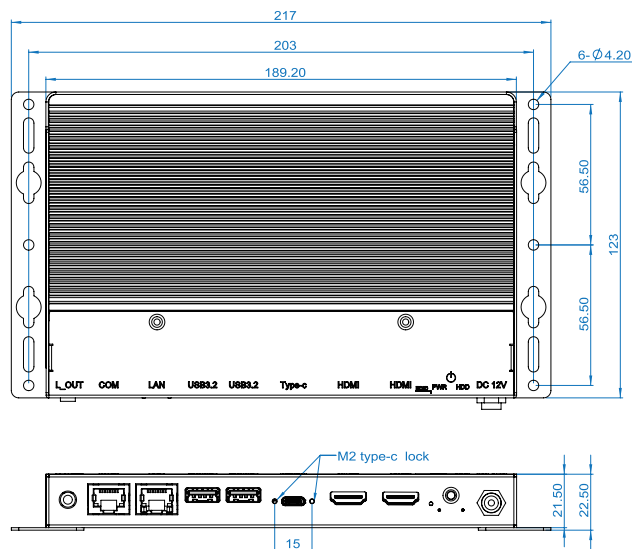
Specifications

System Mainboard	MBD212
CPU	Intel® Atom® x7000E & x7000RE Series/ N-series/ Core™ i3-N305 processor (formerly Alder Lake N)
CPU Socket	FCBGA1264
Chipset	Integrated
Memory	1x DDR5 5600 SODIMM / Max. 16GB (Maximum data rate DDR5-4800) (w/o ECC supported)
Graphics	Gen 12 UHD Gfx, up to 32EU
LAN	1x Gigabit LAN
Expansion Slots	1x M.2 2280 socket (M-key, supports NVMe with PCI-E (2x) or SATA) 1x M.2 2230 socket (E-key, supports CNVi) w/ PCI-E(1x) & USB 2.0)
I/O Interface	2x HDMI 2.0b 2x USB 3.2 (USB Type-A) 1x USB (type-C) 1x RJ45 for Gigabit LAN 1x RJ45 for RS232 serial port 1x Audio connectors for Line out 1x Power button 1x Power jack (+12V DC) 2x LED for power & storage
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	+12V DC
Construction	Aluminum + SGCC
Weight	1.0 kg (2.2 lbs)
Chassis Color	Black & White
Storage	1x M.2 M-key (2280)
Power Supply	50W power adapter
Mounting	Standard system bracket
Dimensions	217mm(W) x 123mm(D) x 22.5mm(H) 8.54"(W) x 4.84"(D) x 0.88"(H)
Operating Temperature	0°C~45°C (32°F~113°F) for SI-212-N -20°C~60°C (-4°F~140°F) for SI-212-N33RE
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Relative Humidity	10%~90% (non-condensing)
Vibration	M.2: 5 grms / 5~500Hz / random operation
Certification	CE, FCC Class-B, cULus, LVD and VCCI
Operating System	Windows 10 IoT Enterprise, Linux Ubuntu 64-bit

Ordering Information

SI-212-N	Intel® Atom® x7000E Series/ N-series/ Core™ i3-N305 processor, 1x 8GB DDR5-5600 SO-DIMM memory, M.2 256GB and 50W power adapter
SI-212-N33RE	Intel® Atom® x7433RE processor, 1x 8GB DDR5 5600 SO-DIMM memory, M.2 256GB and 50W power adapter

Dimensions





Features

- Intel® Atom® X6000/ Pentium® / Celeron® Processors
- iSMART intelligent energy-saving & Observer remote monitoring technologies
- 2x DDR4-3200 SO-DIMM, dual channel
- 1x HDMI 2.0b
- 3x USB 3.1
- 1x 2.5GbE LAN port
- 1x COM (RS-232)
- 1x M.2 M-Key (2280) for storage
- 1x M.2 E-Key (2230) for Wi-Fi, Bluetooth or capture card options
- TPM 2.0 and watchdog timer
- Industrial-grade robust, fanless and compact design

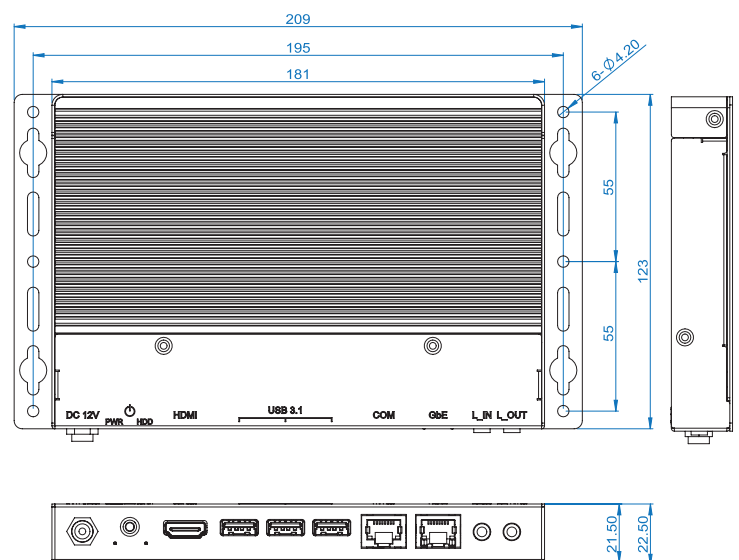
Specifications

System Mainboard	MBD111
CPU	Intel® Atom® x6211E (1.3~3.0GHz) Intel® Celeron® N6210 (1.2~2.6GHz)
CPU Socket	FCBGA1493
Chipset	SoC Integrated
Memory	2x DDR4-3200 SO-DIMM, Max. 32GB (supports IB ECC)
Graphics	Intel® UHD Graphics for 10th Gen Intel® Processors
LAN	1x Intel® I226IT 2.5GbE LAN for Atom® x6000 series 1x Intel® I226V 2.5GbE LAN for Celeron®
Expansion Slots	1x M.2 M-Key (2280) for storage 1x M.2 E-Key (2230) for Wi-Fi, Bluetooth or capture card options
I/O Interface	1x HDMI 2.0b 3x USB 3.1 1x RJ45 for 2.5GbE LAN 1x RJ45 for RS232 serial port 2x Audio connectors for Line-in / Line-out 1x Power button 1x Lockable power connector 1x Power / HDD LED
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	+12V DC
Construction	Aluminum + SGCC
Weight	1 kg (2.2 lbs)
Chassis Color	Black & White
Storage	1x M.2 M-Key (2280)
Power Supply	50W power adaptor
Mounting	Standard system bracket
Dimensions	181mm(W) x 123mm(D) x 21.5mm(H)
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F) for SI-111-N -20°C ~ 70°C (-4°F ~ 158°F) for SI-111-N11E
Storage Temperature	-40°C ~ 80°C (-40°F ~ 176°F)
Relative Humidity	10%~90% (non-condensing)
Vibration	SSD: 5 grms / 5~500Hz / random operation
Certification	CE, FCC class-B, UKCA, cULus, LVD
Operating System	Win10 IoT Enterprise (64-bit) Ubuntu Linux (64-bit)

Ordering Information

SI-111-N	Signage Player with Intel® Celeron® N6210 (1.2~2.6GHz); 2x 4GB DDR4-3200 SO-DIMM, M.2 128GB storage, 1x HDMI 2.0b, 3x USB 3.1, 1x LAN, 1x COM (RJ45) and 50W power adaptor (Operating temperature -10°C ~50°C)
SI-111-N11E	Signage Player with Intel® Atom® x6211E (1.3~3.0GHz); 2x 4GB DDR4-3200 SO-DIMM, M.2 128GB storage, 1x HDMI 2.0b, 3x USB 3.1, 1x LAN, 1x COM (RJ45) and 50W power adaptor (Operating temperature -20°C ~70°C)

Dimensions



SI-12 SI-12-J19

Entry-Level Signage Player / Outdoor Signage Player

Intel® Atom® Processor E3845 or Celeron® Processor J1900

Fanless Signage Player with Intel® Gen7 Graphics and Dual HDMI



Specifications

System Mainboard	IB812
CPU	SI-12: Intel® Atom® E3845 Quad-Core 1.9 GHz SI-12-J19: Intel® Celeron® J1900 Quad-Core 2.0 GHz
CPU Socket	FCBGA 1170 BGA
Chipset	SoC Integrated
Memory	2x DDR3L-1333 SO-DIMMs, dual channel, Max. 8GB (Non-ECC)
Graphics	Intel® HD Graphics (Gen 7-LP) 4EU
LAN	1x Realtek RTL8111H-CG Gigabit LAN controller
Expansion Slots	1x Mini PCI-E (full-size) 1x UIM/SIM card slot
I/O Interface	2x HDMI 1.4a 1x USB 3.0 port, 2x USB 2.0 1x RJ45 for Gigabit LAN 1x RJ45 for RS232 serial port 2x Audio connectors for Line-in / Line-out 1x Power / HDD LED 1x Power button 1x DC jack
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 sec/min
Power Requirement	+12V DC-IN
Construction	Aluminum + SGCC
Weight	0.8 kg (1.76 lbs)
Chassis Color	Black & white
Storage	1x mSATA
Power Supply	60W power adaptor
Mounting	Standard system bracket
Dimensions	190mm(W) x 130mm(D) x 19.5mm(H) 7.48"(W) x 5.12"(D) x 0.77"(H)
Operating Temperature	-30°C ~ 60°C (-22°F ~ 140°F) for SI-12 0°C ~ 45°C (32°F ~ 113°F) for SI-12-J19
Storage Temperature	-40°C ~ 80°C (-40°F ~ 176°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	mSATA: 5 grms / 5~500Hz / random operation
Certification	CE, FCC class-B, VCCI class-B, cULus, LVD
Operating System	Win7 32/64-bit, Win8, Win8.1, WE18.1, WEC 2013, Win10 32/64-bit Enterprise

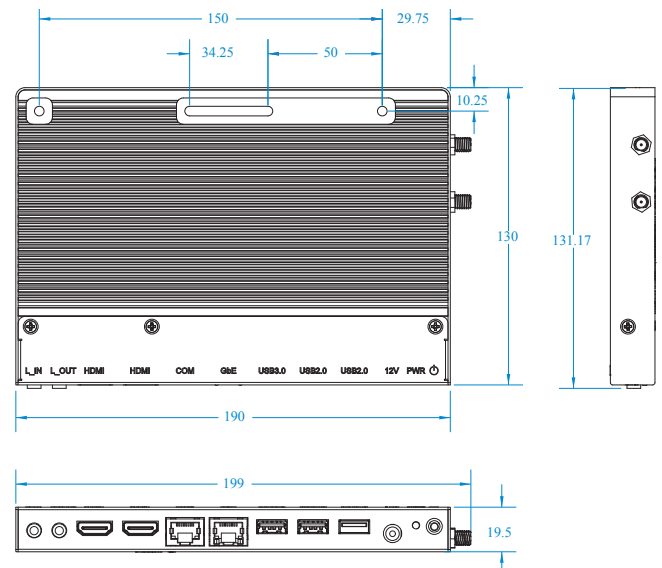
Features

- iSMART intelligent energy-saving & Observer remote monitoring technologies
- Intel® Atom® E3845 Quad-Core 1.9 GHz or Celeron® J1900 Quad-Core 2.0 GHz
- Intel® HD Graphics (Gen 7-LP) 4EU
- 2x DDR3L-1333 SO-DIMM, dual channel, Max. 8GB
- 2x HDMI 1.4a
- 1x Mini PCI-E (full-size) for Wi-Fi, Bluetooth or 4G LTE options
- Fanless, ultra-slim and compact design
- Wide-range operating temperature from -30°C to 60°C

Ordering Information

SI-12	Signage Player with Intel® Atom® E3845 SoC (22nm); Quad-Core 1.91GHz, 4GB SO-DIMM RAM, 128GB mSATA, and 60W power adaptor (Operating temperature -30°C ~60°C)
SI-12-J19	Signage Player with Intel® Celeron® J1900 (22nm); Quad-Core 2GHz, 4GB SO-DIMM, 128GB mSATA, and 60W power adaptor (Operating temperature 0°C ~45°C)
SI-MK1	Mounting bracket
SI-1U-AD	1U Rackmount kit
HDMI Cable Holder	SI-12 HDMI bracket kit
Power Cable Holder	Bracket w/o rubber for SI-12 power button

Dimensions





Specifications

System Mainboard	MBD603
CPU	11th Gen Intel® Core™ / Celeron® U-Series (TGL-U Platform) Processors TDP ≤ 15W
CPU Socket	SoC Integrated
Memory	2x DDR4-3200 SO-DIMM, dual channel, Max. 64GB
Graphics	Gen12 integrated graphics (up to 96EU)
LAN	1x Intel® 226iT PCI-E Gigabit LAN controller
Expansion Slots	1x M.2 E-Key (2230) 1x M.2 B-Key (3052) 1x UIM/SIM card slot
I/O Interface	1x HDMI 2.0 1x DP (supports DP++) 1x DVI-D 3x USB 3.1 @Gen 2 1x USB 2.0 1x RJ45 for 2.5 Gigabit LAN 2x Audio connectors for Line-in / Line-out 2x COM ports: 1x RS232/422/485 + 1x RS232 1x DIO (4-in/4-out) 1x Power / HDD LED 1x Power button 1x 4-pin terminal block 1x Power switch connector
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	12V~24V DC terminal block
Construction	Aluminum + SGCC
Weight	1.7 kg (3.75 lbs)
Chassis Color	Black and white
Storage	1x M.2 M-Key (2280)
Power Supply	Optional
Mounting	Standard system bracket
Dimensions	224mm(W) x 134.6mm(D) x 46.5mm(H) 10.3"(W) x 5.29"(D) x 1.83"(H)
Operating Temperature	-20°C ~ 70°C (-4°F ~ 167°F)
Storage Temperature	-20°C ~ 80°C (-4°F ~ 176°F)
Relative Humidity	10% ~ 90% (non-condensing)
Vibration	SSD: 5 grms / 5~500Hz / random operation
Certification	CE, FCC class-B, cULus, UKCA
Operating System	Win10 IoT Enterprise (64-bit) Ubuntu Linux (64-bit)

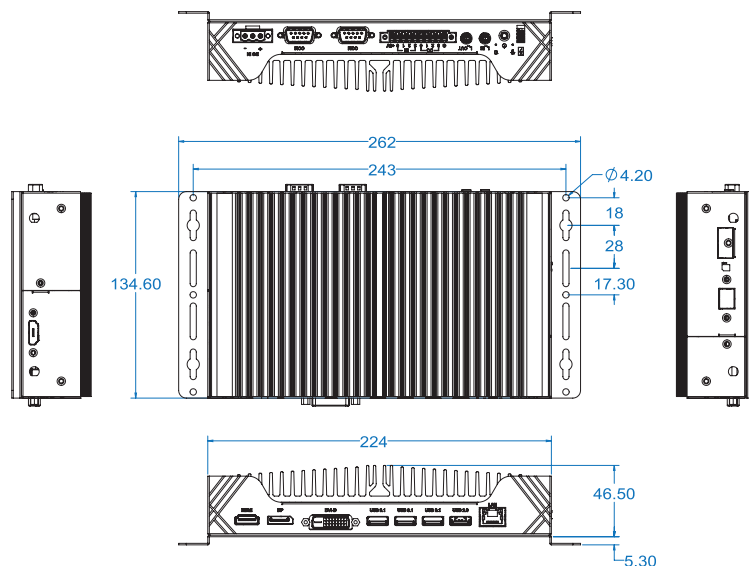
Features

- iSMART intelligent energy-saving & Observer remote monitoring technologies
- 11th Gen Intel® Core™ / Celeron® U-Series Processors
- 2x DDR4-3200 SO-DIMM, dual channel, Max. 64GB
- Intel® Processor integrated graphics device
- Supports OOB (Out-of-Band) and PDPC (Peripheral Device Power Control) functions
- 1x HDMI 2.0, 1x DVI-D, 1x DP (supports DP++)
- 1x M.2 E-Key (2230) for Wi-Fi, Bluetooth or capture card options
- 1x M.2 B-Key (3052) for 5G options
- TPM 2.0, vPro and watchdog timer
- Wide-range operating temperature -20°C to 70°C
- Ruggedized, fanless, all solid state design

Ordering Information

SE-603-N	Fanless Signage Player with MBD603 w/ Intel® 11th Gen Intel® Core™ i7-1185GRE processor TDP ≤ 15W, 2x 4GB SO-DIMM RAM, M.2 128GB storage, and 60W power adaptor (Operating temperature -20°C ~ 70°C; w/o adaptor)
SE-603-N5	Fanless Signage Player with MBD603 w/ Intel® 11th Gen Intel® Core™ i5-1145G7E processor TDP ≤ 15W, 2x 4GB SO-DIMM RAM, M.2 128GB storage, and 60W power adaptor (Operating temperature -20°C ~ 70°C; w/o adaptor)

Dimensions



SE-103-N

Outdoor Signage Player

Intel® Atom® x6000 / Pentium® / Celeron® Processor Fanless Signage Player with Intel® Graphics and 3x HDMI



Features

- iSMART intelligent energy-saving & Observer remote monitoring technologies
- Intel® Atom® x6000/ Pentium® / Celeron® Processors
- 3x HDMI 2.0b with HDMI-CEC display on/off control function
- Built-in hardware EDID emulation with software control
- 2x DDR4-3200 SO-DIMM, dual channel, Max. 32GB
- 1x Intel® 2.5GbE LAN
- 1x M.2 B-Key (3052) for 5G options
- 1x M.2 E-Key (2230) for Wi-Fi, Bluetooth or capture card options
- TPM 2.0 and watchdog timer
- Industrial-grade robust, fanless and compact Design
- Wide-range operating temperature from -20°C to 70°C

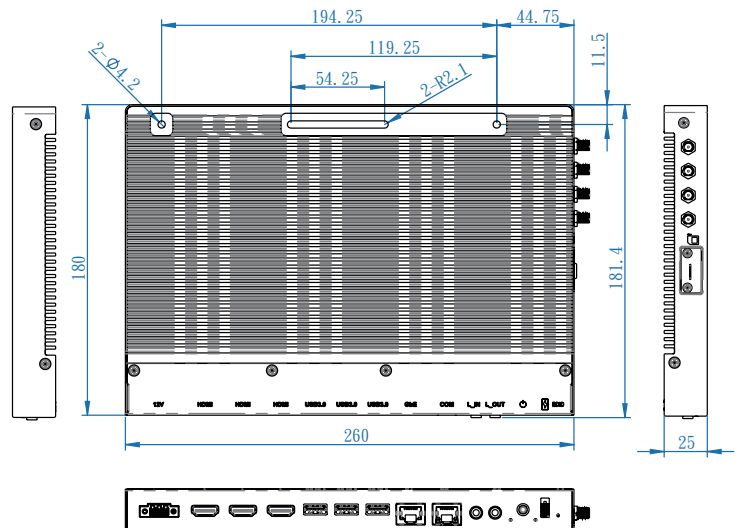
Specifications

System Mainboard	MBD103
CPU	Intel® Atom® x6425E (2.0~3.0GHz) Intel® Celeron® N6210 (1.2~2.6GHz)
CPU Socket	FCBGA1493
Chipset	SoC Integrated
Memory	2x DDR4-3200 SO-DIMM, dual channel, Max. 32GB, supports IBEC for x6000 Series CPU
Graphics	Intel® UHD Graphics for 10th Gen Intel® Processors
LAN	1x Intel® I225IT 2.5GbE LAN for Atom® x6000 series 1x Intel® I225V 2.5GbE LAN for Celeron®/ Pentium®
Expansion Slots	1x M.2 E-Key (2230) 1x M.2 B-Key (3052) 1x UIM/SIM card slot
I/O Interface	3x HDMI 2.0b 3x USB 1x RJ45 for 2.5GbE LAN 1x RJ45 for serial port (RS232/422/485) 2x Audio connectors for Line-in / Line-out 1x Power button 1x Terminal block for power port 1x UIM/SIM card slot 1x Power / HDD LED 4x DI, 4x DO pin header (w/o isolation) (Internal)
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	+12V DC
Construction	Aluminum + SGCC
Weight	1.7 kg (3.75 lbs)
Chassis Color	Black & White
Storage	1x M.2 M-Key (2280)
Power Supply	60W power adaptor
Mounting	Standard system bracket
Dimensions	260mm(W) x 181.4mm(D) x 25mm(H) 10.24"(W) x 7.14"(D) x 0.98"(H)
Operating Temperature	-20°C ~ 70°C (-29°F ~ 158°F) for SE-103-N 0°C ~ 45°C (0°F ~ 140°F) for SE-103-N10
Storage Temperature	-20°C ~ 80°C (-22°F ~ 176°F)
Relative Humidity	10%~90% (non-condensing)
Vibration	SSD: 5 grms / 5~500Hz / random operation
Certification	CE, FCC class-B, UKCA, cULus
Operating System	Win10 IoT Enterprise (64-bit) Ubuntu Linux (64-bit)

Ordering Information

SE-103-N	Signage Player with Intel® Atom® x6425E (2.0~3.0GHz); 2x 4GB DDR4-3200 SO-DIMM, M.2 128GB storage, 3x HDMI 2.0b, 3x USB, 1x LAN, 1x COM (RJ45), 60W power adaptor (Operating temperature -20°C ~ 70°C)
SE-103-N10	Signage Player with Intel® Celeron® N6210(1.2~2.6GHz); 2x 4GB DDR4-3200 SO-DIMM, M.2 128GB storage, 3x HDMI 2.0b, 3x USB, 1x LAN, 1x COM (RJ45) and 60W power adaptor (Operating temperature 0°C ~ 45°C)

Dimensions





Features

- iSMART intelligent energy-saving & Observer remote monitoring technologies
- Intel® Atom™ x7/x5 / Pentium® / Celeron® Processors
- Intel® HD Graphics 505
- 2x 2GB DDR3L-L1866, dual channel, Max. 8GB (Non-ECC, Unbuffered) DDR3L-1600 for N3350 only
- 2x HDMI 1.4b, 1x Mini PCI-E (full-size) for Wi-Fi, Bluetooth or 4G LTE options
- Fanless, super slim and compact design
- Wide-range operating temperature from -40°C to 70°C

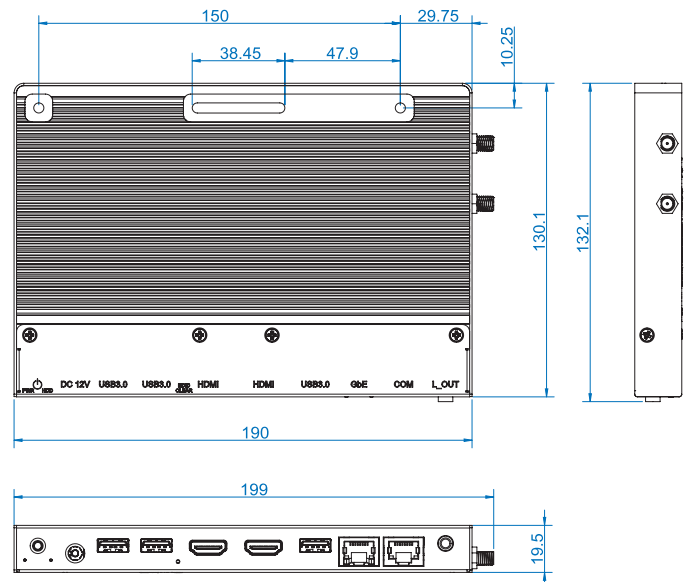
Specifications

System Mainboard	MBD102
CPU	Intel® Atom® x7/x5 / Pentium® & Celeron® Processors
CPU Socket	FCBGA1296
Chipset	SoC Integrated
Memory	2x 2GB DDR3L-L1866, dual channel, Max. 8GB (Non-ECC, Unbuffered) DDR3L-1600 for N3350 only
Graphics	Intel® HD Graphics 505
LAN	1x Intel® I210IT Gigabit LAN controller for EXXXX series 1x Intel® I210AT Gigabit LAN controller for NXXXX series
Expansion Slots	1x Mini PCI-E (full-size) for Wi-Fi, Bluetooth or 4G options 1x SIM card slot
I/O Interface	2x HDMI 1.4b with hardware EDID emulation 3x USB 3.0 port 1x RJ45 for Gigabit LAN 1x RJ45 for RS232 serial port 1x Audio connectors for / Line-out 1x Power / HDD LED 1x power on / off button 1x DC jack
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	+12V DC
Construction	Aluminum + SGCC
Weight	0.9 kg (1.98 lbs)
Chassis Color	Black and white
Storage	1x mSATA
Power Supply	60W power adaptor
Mounting	Standard system bracket
Dimensions	190mm(W) x 130mm(D) x 19.5mm(H) 7.48"(W) x 5.12"(D) x 0.77"(H)
Operating Temperature	-40°C ~ 70°C (-40°F ~ 158°F) for SE-102-N 0°C ~ 45°C (32°F ~ 113°F) for SE-102-N420
Storage Temperature	-40°C ~ 110°C (-40°F ~ 230°F)
Relative Humidity	5%~90% @45oC (non-condensing)
Vibration	SSD: 5 grms / 5~500Hz / random operation
Certification	CE, FCC class-B, cULus, LVD
Operating System	Windows10 / Linux

Ordering Information

SE-102-N	Signage Player with Intel® Atom® x7 / E3950 (1.6~2.0GHz); 2x 2GB DDR3 SO-DIMM RAM, 64GB mSATA, and 60W power adaptor. (Operating temperature: -40°C ~ 70°C is not supported by the adaptor)
SE-102-N420	Signage Player with Intel® Pentium® N4200 (1.1~2.5GHz); 2x 2GB DDR3 SO-DIMM RAM, 64GB mSATA, and 60W power adaptor. (Operating temperature: 0°C ~ 45°C)
SI-MK1	Mounting bracket

Dimensions





Features

- iSMART 3.0 intelligent energy-saving & Observer remote monitoring technologies
- 11th Gen Intel® Core™ / Celeron® U-Series processors
- 1x DDR4-3200 SO-DIMM, dual channel, Max. 64GB
- 2x HDMI 2.0 (M25 connector)
- 2x USB3.1 (M12), 1x Gigabit LAN (M12)
- 1x M.2 M-Key (2280)
- Wide-range operating temperature from -40°C ~ 75°C
- Waterproof and fanless design with IP65 rating

Specifications

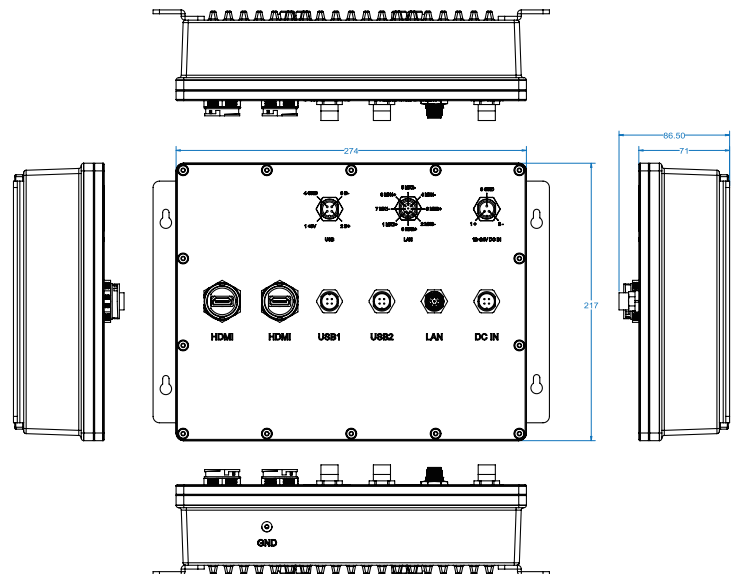
System Mainboard	MBD603-i5
CPU	Intel® Core™ i5-1145GRE Processor (8M Cache, up to 4.10 GHz)
CPU Socket	BGA-1449 package
Chipset	SoC Integrated
Memory	1x DDR4-3200, SO-DIMM, Max. 64GB
Graphics	integrated
LAN	1x Gigabit LAN (M12)
Expansion Slots	1x M.2 E-Key (2230) (2x PCI-E x1; USB 2.0) 1x M.2 B-Key (3052) (PCI-E x1; USB 2.0; USB 3.0) 1x internal SIM slot 1x M.2 M-Key(2280) (for capture card) (supports PCI-E Gen III x4 (NVMe SSD))
I/O Interface	2x HDMI2.0 (M25 connector) 2x USB3.1 (M12) 1x Gigabit LAN (M12) 1x DC power (M12)
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	12V DC-IN
Construction	Aluminum die-casting and heavy-duty steel
Weight	TBD
Chassis Color	Black
Storage	M.2-2280 SATA3 128GB
Power Supply	84W power adapter (optional)
Mounting	Wall mount
Dimensions	TBD
Operating Temperature	-40°C ~ 75°C (-40°F ~ 167°F)
Storage Temperature	-40°C ~ 80°C (-40°F ~ 176°F)
Relative Humidity	10% ~ 90% (non-condensing)
Vibration	3 grms / 5 ~ 500Hz / random operation
Certification	CE, FCC Class-B
Operating System	Win10 64-bit Enterprise

Ordering Information

SW-602-N

Signage Player with Intel® Core™ i5-1145GRE Processor, 1x DDR4-3200 SO-DIMM, dual channel, 64GB, w/o power adapter

Dimensions





SW-101-N VIDEO



Features

- iSMART intelligent energy-saving & Observer remote monitoring technologies
- Intel® Atom® Processor E3845 Quad Core CPU
- 1x DDR3L-1333 SO-DIMM, dual channel, Max. 8GB
- Intel® Processor integrated Graphics device, supports 1x HDMI port (C3 connector)
- 2x USB 2.0, 1x RS232, 1x Digital I/O (M12 connector)
- 1x Mini PCI-E for 3G, 4G LTE or Wi-Fi module, 1x mSATA for storage
- Wide-range operating temperature from -40°C ~ 75°C
- Waterproof and fanless design with IP68 rating

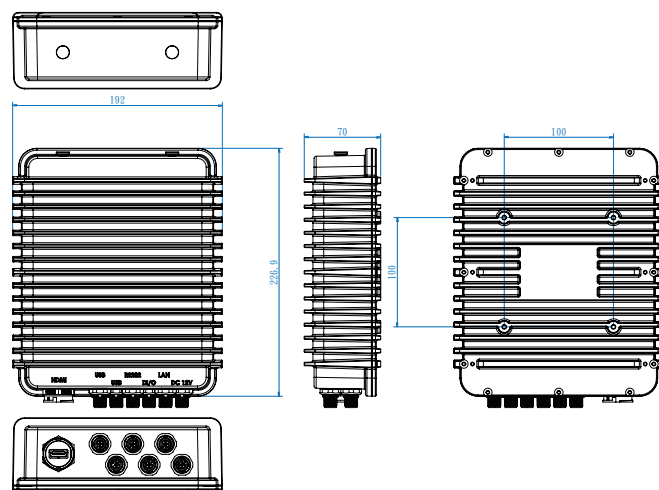
Specifications

System Mainboard	SGT-MB2
CPU	Intel® Atom® Processor E3845 Quad-Core 1.91GHz
CPU Socket	FCBGA 1170
Chipset	SoC Integrated
Memory	1x DDR3L-1333 SO-DIMMs, dual channel, Max. 8GB
Graphics	Intel® HD Graphics (Gen 7-LP) 4EU
LAN	1x Realtek RTL8111H-CG Gigabit LAN controller
Expansion Slots	1x mini PCI-E (full-size) 1x mSATA socket for mSATA SSD
I/O Interface	1x HDMI (C3 connector) 2x USB 2.0 (M12 connector) 1x Gigabit LAN (M12 connector) 1x RS232 (M12 connector) 1x DC power (M12 connector) 2x N jack type antenna opening w/ waterproof design 1x DIO (M12 connector)
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	12V DC-IN
Construction	Aluminum die-casting and heavy-duty steel
Weight	2.8 kg (6.17 lbs)
Chassis Color	Black
Storage	1x mSATA
Power Supply	84W power adaptor (optional)
Mounting	Wall mount
Dimensions	227mm(W) x 192mm(D) x 70mm(H) 8.93"(W) x 7.55"(D) x 2.75"(H)
Operating Temperature	-40°C ~ 75°C (-40°F ~ 167°F)
Storage Temperature	-40°C ~ 80°C (-40°F ~ 176°F)
Relative Humidity	10% ~ 90% (non-condensing)
Vibration	mSATA: 5 grms / 5 ~ 500Hz / random operation
Certification	CE, FCC Class-B
Operating System	Win7 32/64-bit, Win8, Win8.1, WEI8.1, WEC 2013, Win10 32/64-bit Enterprise

Ordering Information

SW-101-N	Signage Player with Intel® Atom® E3845 SoC (22nm); Quad-Core 1.91 GHz, 4GB SO-DIMM RAM, 64GB mSATA w/o power adaptor
----------	--

Dimensions





Features

- 48" color TFT active matrix wide LCD with optimal resolution 3840 x 720
- 8th Gen Intel® Core™ i5-8365UE (1.6~4.1GHz) with Intel® UHD Graphics 620
- 2x DDR4-2400 SO-DIMM, dual channel, Max. 32GB
- 2x USB2.0
- Ruggedized, fanless and compact design

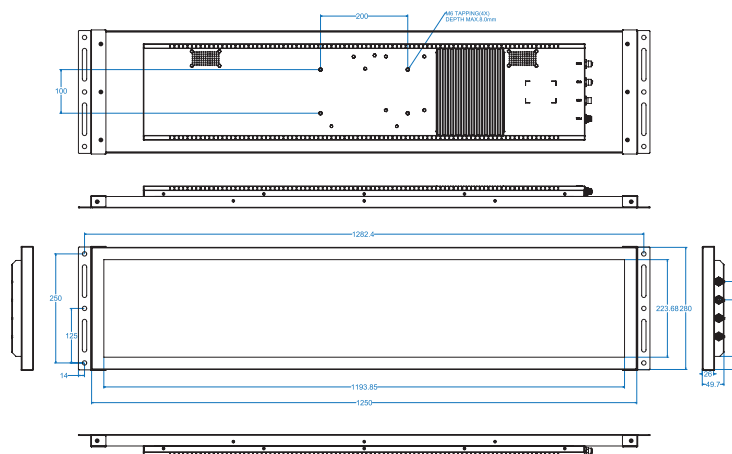
Specifications

Panel Type	48" color TFT active matrix, wide LCD
Display Area	103.65(H) x 310.95(V)
Resolution	3840 x 720
Contrast Ratio	1000:1 (typ)
Viewing Angles	89°(H) / 89°(V)
Response Time	20ms (typ)
Backlight	LED 50,000H
Brightness	1,000 nits (typ.)
Panel Surface	Hard coating, Reduce scratching
System Mainboard	IB919
CPU Type	8th Gen Intel® Core™ i5-8365UE (1.6GHz/4.1GHz)
CPU Socket	FCBGA1528
Chipset	SoC Integrated
Memory	2x DDR4-2400 SO-DIMM, dual channel, Max.32GB
Graphics	Intel® UHD Graphics 620
LAN	1x Intel® I219LM GbE PHY
Expansion Slots	N/A
I/O Interface	1x M12 connector Gigabit LAN 2x M12 connector USB 2.0 1x RS232/422/485 (jumperless selection) M12 connector 2x Speakers (reserved) 2x Antenna (reserved)
Auto Control and Monitoring	Watchdog timer: 256 segments, 0, 1, 2...255 sec/min
Power Requirement	+24V DC-IN
Construction	Aluminum + SGCC
Weight	17.58 kg (38.76 lbs)
Chassis Color	Black
Storage	1x mSATA
Power Supply	Optional
Mounting	Side mounting
Dimensions	1250mm(W) x 280mm(D) x 49.7mm(H) 49.21"(W) x 11.02"(D) x 1.96"(H)
Operating Temperature	-25°C ~ 40°C (-13°F ~ 104°F)
Storage Temperature	-20°C ~ 80°C (-4°F ~ 176°F)
Relative Humidity	5%~90% @45oC (non-condensing)
Vibration	IEC61373
Certification	CE, FCC Class-B
Operating System	Win10 32/64-bit Enterprise

Ordering Information

ARD-048-N	48" All-in-One Resizing Fanless 4K Panel PC with Intel® Core™ i5-8365UE (1.6GHz/4.1GHz), 2x 4GB DDR4-2400 SO-DIMM, 128GB mSATA, power adapter 180W 24V output
Speaker set	2x 4W speakers with amplifier board

Dimensions





Features

- 42" color TFT active matrix, wide LCD with optimal resolution 1920 x 480
- Intel® Pentium® N4200 (1.1GHz~2.5GHz) with Intel® SoC integrated Gen 9 18EUs Graphics
- 2x DDR3L-1866 SO-DIMM, dual channel, Max. 8GB
- 1x M.2 B-Key (3042) for 4G LTE or storage options
- 2x RJ45 for Gigabit LAN
- 1x HDMI 1.4b
- 1x DP 1.2
- Ruggedized, fanless and compact design

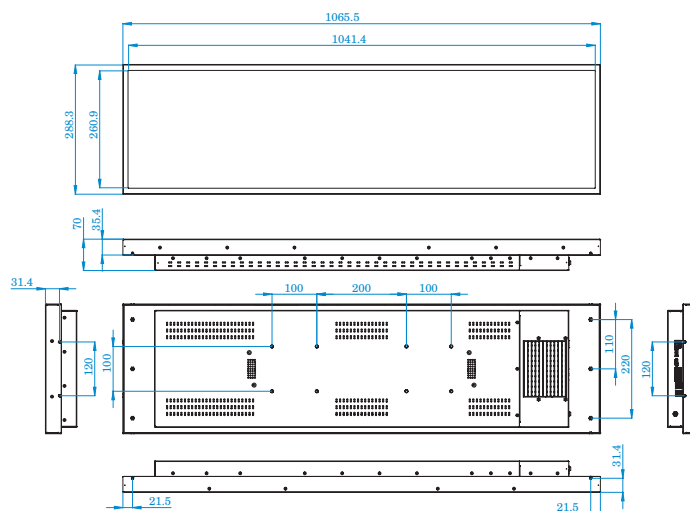
Specifications

Panel Type	42" color TFT active matrix, wide LCD
Display Area	1039.68 (H) x 259.92(V)
Resolution	1920 x 480
Contrast Ratio	3500:1(typ.)
Viewing Angles	178°(H) / 178°(V)
Response Time	8ms (typ.)
Backlight	LED
Brightness	550 nits
Panel Surface	Anti-glare coating (Haze 44%)
System Mainboard	IB811F-420
CPU	Intel® Pentium® QC N4200 (1.1GHz~2.5GHz, 2MB cache)
CPU Socket	FCBGA1296 (24mm x 31mm)
Chipset	SoC Integrated
Memory	2x DDR3L-1866 SO-DIMM, dual channel, Max. 8GB
Graphics	Intel® SoC Integrated Gen 9 18EUs graphics
LAN	2x Intel® I210AT PCI-E Gigabit LAN
Expansion Slots	1x M.2 B-Key (3042)
I/O Interface	1x HDMI 1.4b 1x DP 1.2 2x RJ45 for Gigabit LAN 4x USB 3.0 1x RS-232/422/485 (jumperless selection)
Auto Control and Monitoring	Watchdog timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	+12V DC-IN
Construction	Aluminum + SGCC
Weight	14.8 kg (32.63 lbs)
Chassis Color	Black
Storage	1x mSATA
Power Supply	180W power adaptor
Mounting	Side mounting
Dimensions	1065.5mm(W) x 288.3mm(D) x 70mm(H) 41.94"(W) x 11.35"(D) x 2.75"(H)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-20°C ~ 80°C (-4°F ~ 176°F)
Relative Humidity	5%~90% @45oC (non-condensing)
Vibration	IEC61373 (Vibration Class-B)
Certification	CE, FCC Class-B
Operating System	Win10 32/64-bit Enterprise

Ordering Information

ARD-042-N	42" All-in-one Resizing Panel PC with Intel® Pentium® QC N4200 (1.1GHz~2.5GHz, 2MB cache), 2GB DDR3L-1866 SO-DIMM, 64GB mSATA w/ RJ45 LAN, AC/DC power adaptor 180W 24V output, DC Plug with screw lock
Speaker set	2x 4W speakers with amplifier board

Dimensions





Features

- 37" color TFT active matrix, wide LCD with optimum resolution of 1920 x 540 & 1000 nits brightness
- Intel® Pentium® N4200 (1.1~1.25GHz) with Intel® SoC integrated Gen9 Gfx with 18EUs
- 2x DDR3L-1866 SO-DIMM, dual channel, Max. 8GB
- 1x M.2 B-Key (3042) for 4G LTE or storage options
- 2x RJ45 ports for Gigabit LAN
- 1x HDMI 1.4b
- 1x DisplayPort 1.2
- Ruggedized, fanless and compact design

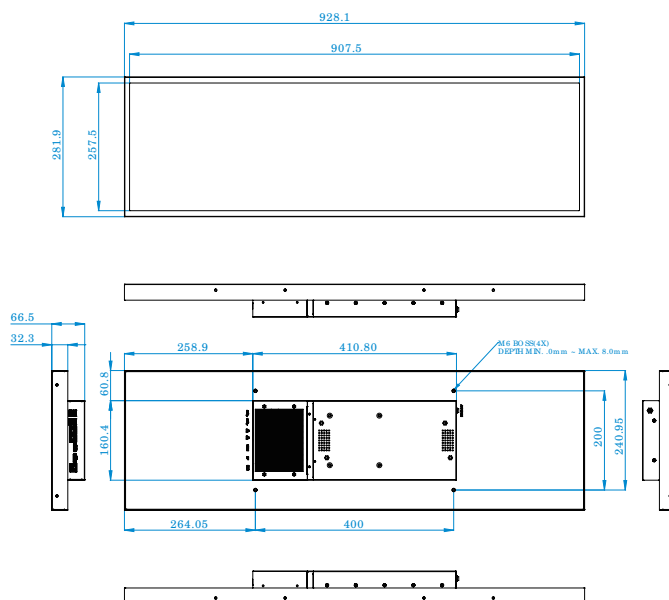
Specifications

Panel Type	37" color TFT active matrix, wide LCD
Display Area	904.32(H) x 254.34(V)
Resolution	1920 x 540
Contrast Ratio	4000:1(typ.)
Viewing Angles	178°(H) / 178°(V)
Response Time	6.5ms(typ.)
Backlight	LED 50,000H
Brightness	1000 nits
Panel Surface	Anti-glare, hard coating (3H)
System Mainboard	IB811F-420
CPU	Intel® Pentium® QC N4200 (1.1GHz~2.5GHz, 2MB cache)
CPU Socket	FCBGA1296 (24mm x 31mm)
Chipset	SoC Integrated
Memory	2x DDR3L-1866 SO-DIMM, dual channel, Max. 8GB
Graphics	Intel® SoC Integrated Gen9 18EUs Gfx
LAN	2x Intel® I210AT PCI-E Gigabit LAN
Expansion Slots	1x M.2 B-Key (3042)
I/O Interface	1x HDMI 1.4b, 1x DP1.2 2x RJ45 for Gigabit LAN 4x USB 3.0 1x RS-232/422/485 (jumperless selection)
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	+24V DC-IN
Construction	Aluminum + SGCC
Weight	9.0 kg (20.0 lbs)
Chassis Color	Black
Storage	1x mSATA
Power Supply	180W power adaptor
Mounting	Side mounting
Dimensions	928.1mm(W) x 66.5mm(D) x 281.9mm(H) 36.54"(W) x 2.62"(D) x 11.10"(H)
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-20°C ~ 80°C (-4°F ~ 176°F)
Relative Humidity	5%~90% @45oC (non-condensing)
Vibration	IEC61373 (Vibration Class-B)
Certification	CE, FCC Class-B, cULus
Operating System	Win10 32/64-bit Enterprise

Ordering Information

ARD-037-N	37" All-in-one Resizing Panel PC with Intel® Pentium® QC N4200 (1.1GHz~2.5GHz, 2MB cache), 2x 2GB DDR3L-1866 SO-DIMM, 64GB mSATA w/ RJ45 LAN, AC/DC power adaptor 180W 24V output, DC plug with screw lock, Win10 32/64-bit Enterprise
Speaker set	2x 5W speakers with the amplifier board

Dimensions





Features

- 27.6" color TFT active matrix, wide LCD with optimum resolution of 1920 x 360 and 1000 nits brightness
- With Intel® Atom™ Processor E3825 Dual-Core 1.33GHz SoC
- Integrated Intel® HD Graphics (Gen 7-LP) with 4 EUs
- 1x Mini PCI-E (full-size) for storage
- 1x Mini PCI-E (full-size) for Wi-Fi, Bluetooth or 4G LTE option
1x Mini PCI-E (half-size) for Wi-Fi, Bluetooth or 4G LTE option
- 2x M12 for Gigabit LAN in & LAN out
- Ruggedized, fanless and compact design

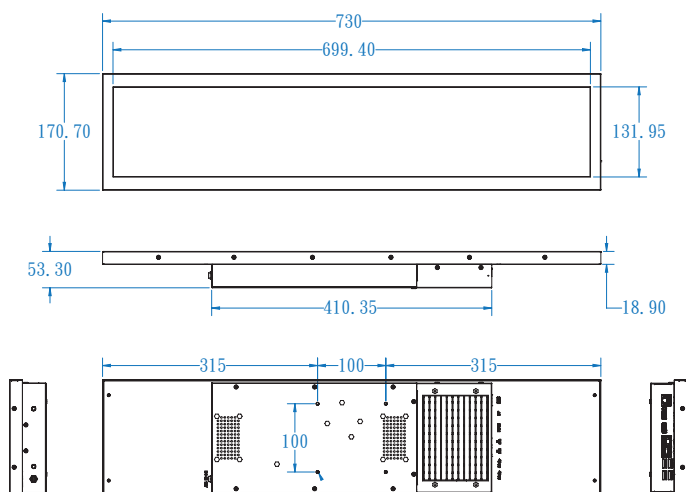
Specifications

Panel Type	27.6" color TFT active matrix, wide LCD
Display Area	698.40(H) x 130.95(V)
Resolution	1920 x 360
Contrast Ratio	4000:1 (typ.)
Viewing Angles	178°(H) / 178°(V)
Response Time	8ms (typ.)
Backlight	100,000 hours (MTBF)
Brightness	1,000 nits (typ.)
Panel Surface	Anti-glare, hard coating (3H)
System Mainboard	IB898
CPU	Intel® Atom™ E3825 DC, 1.33GHz
CPU Socket	FCBGA1170 (25mm x 27mm)
Chipset	Integrated in Intel® Atom™ SoC
Memory	1x DDR3L-1067 SO-DIMM, Max. 4GB
Graphics	Intel® HD graphics (Generation 7-LP) with 4EUs
LAN	1x Realtek RTL8367N Gigabit LAN controller
Expansion Slots	1x Mini PCI-E (full-size) for Wi-Fi, Bluetooth or 4G LTE 1x Mini PCI-E (half-size) for Wi-Fi, Bluetooth or 4G LTE
I/O Interface	1x RS232/422/485 (jumperless selection) 1x VGA 2x M12 for Gigabit LAN in & LAN out 2x USB 2.0 (pin header)
Auto Control and Monitoring	Watchdog timer: 256 segments, 0, 1, 2...255 sec/min
Power Requirement	+12V DC-IN
Construction	Aluminum + SGCC
Weight	5.4 kgs (11.9 lbs)
Chassis Color	Black
Storage	1x mSATA
Power Supply	Optional
Mounting	Side mounting
Dimensions	730 mm(W) x 53.4mm(D) x 170.7 mm(H)
Operating Temperature	-25°C ~ 55°C (-13°F ~ 131°F)
Storage Temperature	-20°C ~ 80°C (-4°F ~ 176°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	IEC61373 (Vibration class-B)
Certification	CE, FCC Class-B
Operating System	Win10 32/64-bit Enterprise

Ordering Information

ARD-028-NA	27.6" All-in-one Resizing Display with Intel® Atom™ E3825 Dual-Core @ 1.33 GHz, 2GB SO-DIMM, 64GB mSATA w/ M12 LA
Power adaptor	AC 100V~240V input, 12V DC output, 60W power adaptor IBASE P/N: A005PS060WFSP01C0P

Dimensions





Features

- MediaTek Genio 700 (MT8390) 2.2GHz or MediaTek Genio 510 (MT8370) 2.0GHz processor
- 1x HDMI (4K60) + 1x HDMI (4K30)
- Onboard 4GB~8GB LPDDR4 with 4000MT/s
- Embedded I/O for COM, USB, HDMI, Ethernet
- Supports M.2 E-Key (2230) for WiFi6 2T2R + BT 5.2 connectivity
- Ruggedized and Fanless Design

Specifications

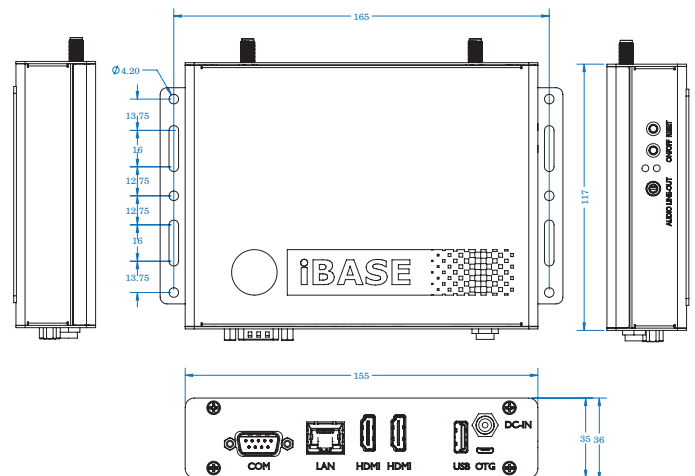
System Mainboard	IBR500 SBC
Processor	MediaTek Genio 700 (MT8390) : 2x A78 2.2GHz L2 256KB, 6x A55 2.0GHz L2 128KB, shared 2MB L3 cache MediaTek Genio 510 (MT8370) : 2x A78 2.0GHz L2 256KB, 4x A55 2.0GHz L2 128KB, shared 2MB L3 cache
Chipset	Integrated
System Memory	4GB~8GB LPDDR4 on board
Graphics	ARM Mali-G57 MC3, OpenGL ES 1.1/2.0/3.2, Vulkan 1.0/1.1 ARM Mali-G57 MC2, Vulkan 1.1, OpenGL ES 3.2, and OpenCLTM 2.2
LAN	1x RJ45 GbE LAN
Expansion Slots	1x M.2 E-Key (2230) w/ SDIO, UART (for Wireless)
I/O	Front I/O: 1x RS232 DB9 connector 1x RJ45 GbE LAN 1x HDMI (4K60) + 1x HDMI (4K30) 1x Micro USB2.0 (with OTG support) + 1x USB 3.1 Type-A 1x DC IN power jack EIAJ with screw lock Rear I/O: 2x Antenna holes Side I/O: 1x PWR On/Off button 1x Factory reset button 1x Audio Line-Out
Auto Control and Monitoring	Watchdog Timer: 256 Levels, 0~128 Secs
Power Requirement	12V DC-IN
Construction	SGCC
Weight	0.5 kg (1.1 lbs)
Chassis Color	Black & Silver
Storage	64GB~128GB eMMC 5.1 Flash for O.S. and 8MB SPI NOR Flash for board information
Power Supply	50W
Mounting	Desktop or wall mounting (wall mount kit included)
Dimensions	155mm (W) x 110mm (D) x 35mm (H)
Operating Temperature	-10°C to 50°C (14°F ~ 122°F)
Storage Temperature	-20°C ~80°C (-4°F ~ 176°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)

Vibration	Non-Operating: 1.0 grms / 5~500Hz / random operation Operating: 0.25 grms / 5~500Hz / random operation
Certification	CE / LVD / FCC Class-B (TBD)
OS Support	Linux Yocto 5.15 ready Android 14 ready Support for other OS available upon request

Ordering Information

ISR500-1	MediaTek Genio 700 / MT8390: 2x A78 2.2GHz L2 256KB, 6x A55 2.0GHz L2 128KB, shared 2MB L3 cache, 8GB LPDDR4, 64~128GB eMMC
ISR500-2	MediaTek Genio 510 / MT8370: 2x A78 2.2GHz L2 256KB, 4x A55 2.0GHz L2 128KB, shared 2MB L3 cache, 4GB LPDDR4, 64GB eMMC
50W power adaptor	50W (12V @5.0A) power adaptor, bare wire type Compatible with IEC62368-1/EN62368-1
Optional Accessories	WiFi / Bluetooth module & antenna kit M.2 Wifi/BT module: A024MDWIFI0045000P or A024MDWIFI0046000P Antenna kit: A055RFAS67H600000P + A055BTC0000010000P

Dimensions





Specifications

System Mainboard	IBR215-Q316I 2.5-inch SBC
Processor	NXP i.MX 8M Plus - ARM Cortex-A53 Quad 1.6GHz
Chipset	Integrated
System Memory	3GB LPDDR4 on board (optional 1/2/4/8GB)
Graphics	GC7000UL OpenGL ES 3.1, Vulkan Open CL™ 1.2 FP Vivante GC520L (2D)
LAN	2x RJ45 GbE LAN
Expansion Slots	1x M.2 B-Key (3052) w/ SIM socket (for 5G)
I/O	1x HDMI 2.0a, 1080p60 2x USB 3.0 Type-A 1x Mini-USB OTG 1x On/Off button 1x SD socket (UHS-I SDR-104, 104MB/s max) 1x Boot select switches (boot from eMMC or SD)
Auto Control and Monitoring	Watchdog Timer:256 Levels, 0~128 Secs
Power Requirement	12V~24V DC-IN
Construction	SGCC
Weight	0.5 kg (1.1 lbs)
Chassis Color	Black
Storage	16GB eMMC on board (up to 128GB)
Power Supply	60W
Mounting	DIN rail, wall mount
Dimensions	119mm (W) x 82mm (D) x 36mm (H)
Operating Temperature	-40°C ~ 70°C (-40°F ~ 158°F)
Storage Temperature	-40°C ~ 70°C (-40°F ~ 158°F)
Relative Humidity	0%~90% (non-condensing)
Vibration	Non-operating: 3 Hz to 500 Hz, 15 mins
Certification	CE/ FCC Class B/ LVD
OS Support	Yocto 5.0 Android 11 Debian 10 Support for other OS available upon request

Features

- NXP i.MX 8M Plus - ARM Cortex-A53 Quad processor
- 3GB LPDDR4, 16GB eMMC & SD socket for expansion
- Embedded I/O, USB, HDMI, Ethernet
- Supports M.2 B-Key (3052), 5G connectivity
- Ruggedized and fanless design

Ordering Information

ISR215-Q316I

ARM-based, NXP i.MX 8M Plus - ARM Cortex-A53 Quad 1.6GHz, 3GB LPDDR4, 16GB eMMC, 60W Power Adaptor

Dimensions

