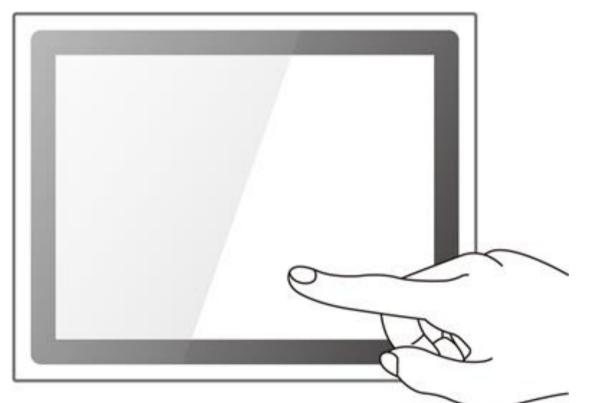


# IP65 Stainless Flat PCAP Panel PC

Intel® Celeron® Bay Trail-M N2930 1.83 GHz

## 10.4"/ 15"/ 17"/ 19"/ 21.5"/ 23.8"



Model No. R10IB3S-SPT2 R15IB3S-SPC3 R17IB3S-SPM1 R19IB3S-SPM1 W22IB3S-SPA3 W24IB3S-SPA2

# **Quick Start Guide**

Document Version 1.8 Document Part No. 91521111101T

Please read these instructions carefully before using this product, and save this manual for future use.

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## **FCC Statement**

This device complies with part 15 FCC rules.

Operation is subject to the following two conditions:

- This device may not cause harmful interference.
  - This device must accept any interference received including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a class "B" digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference at him own expense.

## **European Union**

### Electromagnetic Compatibility Directive (2014/30/EU)



- EN55024: 2010/ A1: 2015
  - o IEC61000-4-2: 2009
  - IEC61000-4-3: 2006+A1: 2007+A2: 2010
  - o IEC61000-4-4: 2012
  - o IEC61000-4-5: 2014
  - o IEC61000-4-6: 2014
  - o IEC61000-4-8: 2010
  - o IEC61000-4-11: 2004
- EN55032: 2012/AC:2013
- EN61000-3-2:2014
- EN61000-3-3:2013

### Low Voltage Directive (2014/35/EU)

• EN 60950-1:2006/A11:2009/A1:2010/A12:2011/ A2:2013

This equipment is in conformity with the requirement of the following EU legislations and harmonized standards. Product also complies with the Council directions.

### **Copyright Notice**

No part of this document may be reproduced, copied, translated, or transmitted in any form or by any means, electronic or mechanical, for any purpose, without the prior written permission of the original manufacturer.

### **Trademark Acknowledgement**

Brand and product names are trademarks or registered trademarks of their respective owners.

### **Disclaimer**

Winmate Inc. reserve the right to make changes, without notice, to any product, including circuits and/or software described or contained in this manual in order to improve design and/or performance. We assume no responsibility or liability for the use of the described product(s) conveys no license or title under any patent, copyright, or masks work rights to these products, and make no representations or warranties that these products are free from patent, copyright, or mask work right infringement, unless otherwise specified. Applications that are described in this manual are for illustration purposes only. We make no representation or guarantee that such application will be suitable for the specified use without further testing or modification.

### Warranty

Winmate Inc. warranty guarantees that each of its products will be free from material and workmanship defects for a period of one year from the invoice date. If the customer discovers a defect, we will, at his/her option, repair or replace the defective product at no charge to the customer, provide it is returned during the warranty period of one year, with transportation charges prepaid. The returned product must be properly packaged in its original packaging to obtain warranty service. If the serial number and the product shipping data differ by over 30 days, the inwarranty service will be made according to the shipping date. In the serial numbers the third and fourth two digits give the year of manufacture, and the fifth digit means the month (e. g., with A for October, B for November and C for December).

For example, the serial number 1W14Axxxxxx means October of year 2014.

### **Customer Service**

We provide a service guide for any problem by the following steps: First, visit the website of our distributor to find the update information about the product. Second, contact with your distributor, sales representative, or our customer service center for technical support if you need additional assistance.

You may need the following information ready before you call:

- Product serial number
- Software (OS, version, application software, etc.)
- Description of complete problem
- The exact wording of any error messages

In addition, free technical support is available from our engineers every business day. We are always ready to give advice on application requirements or specific information on the installation and operation of any of our products.

### **Safety Information**

#### WARNING! / AVERTISSEMENT!

Always completely disconnect the power cord from your chassis whenever you work with the hardware. Do not make connections while the power is on. Sensitive electronic components can be damaged by sudden power surges. Only experienced electronics personnel should open the PC chassis.

Toujours débrancher le cordon d'alimentation du chassis lorsque vous travaillez sur celui-ci. Ne pas brancher de connections lorsque l'alimentation est présente. Des composantes électroniques sensibles peuvent être endommagées par des sauts d'alimentation. Seulement du personnel expérimenté devrait ouvrir ces chassis.

#### **CAUTION/ATTENTION**

Always ground yourself to remove any static charge before touching the CPU card. Modern electronic devices are very sensitive to static electric charges. As a safety precaution, use a grounding wrist strap at all times. Place all electronic components in a static-dissipative surface or static-shielded bag when they are not in the chassis.

Toujours verifier votre mise à la terre afin d'éliminer toute charge statique avant de toucher la carte CPU. Les équipements électroniques moderns sont très sensibles aux décharges d'électricité statique. Toujours utiliser un bracelet de mise à la terre comme précaution. Placer toutes les composantes électroniques sur une surface conçue pour dissiper les charge, ou dans un sac anti-statique lorsqu'elles ne sont pas dans le chassis.

### **General Guideline**

It is recommended to reboot the device when some functions are defect or inactive. If it still can't solve the problems please contact your dealer or agent.



## Introduction

Congratulations on purchasing Winmate® IP65 Flat Stainless PCAP Series Panel PC. Winmate® IP65 Flat Stainless PCAP Series Panel PC is rugged, industrial-grade panel PC series built to withstand challenging environments, undergoing rigorous testing to ensure safety and top performance. All of the models in the series are sealed to IP65 standard. Stainless housing features anti-corrosion properties making it suitable for food, chemical and pharmaceutical industries. PCAP multi-touch screen supports glove mode and provides even more convenience for the operator.

Winmate® IP65 Flat Stainless PCAP Panel PC goes beyond that of the standard industrial panel computers with elegant, edge-to-edge design, rugged construction, powerful performance, and flexible mounting options.

### **Features**

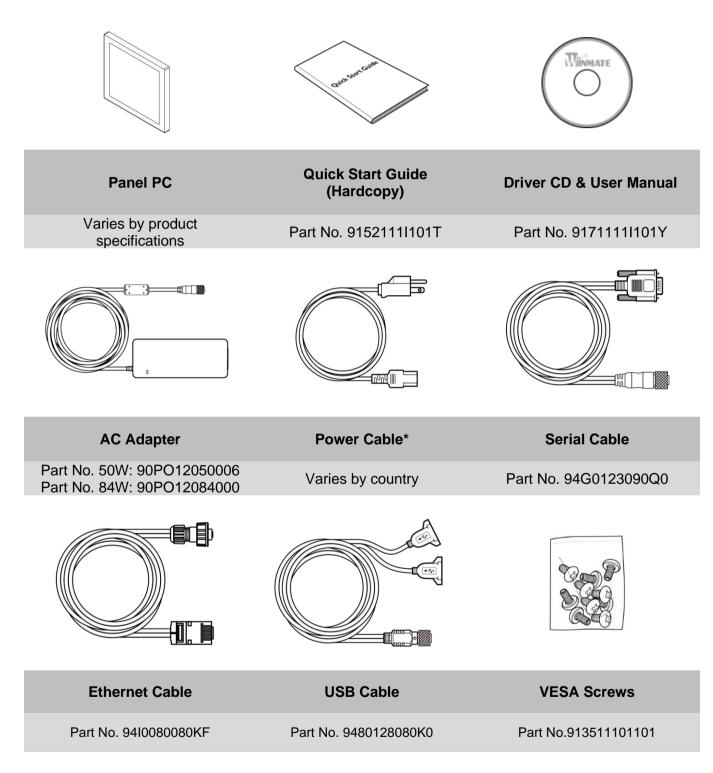
Winmate® IP65 Flat Stainless PCAP Panel PC features:

- Intel® Celeron® Bay Trail-M N2930 1.83 GHz
- SUS 316/ AISI 316 stainless steel for food and chemical industries
- Sealed to IP65 for protection against water and dust
- A true flat, easy-to-clean front surface with edge-to-edge design
- Flat multi-touch panel pc with superior readability and PCAP technology
- Various mounting solutions, Yoke mount and VESA mount
- Plenty of I/O s including USB 2.0, RS-232 serial port and RJ45-10/100/1000 LAN ports
- Waterproof ports with adapter cables for external connectivity
- Rain/ Glove Mode

## **Package Content**

Carefully remove the box and unpack your device. Please check if all the items listed below are inside your package. If any of these items are missing or damaged contact us immediately.

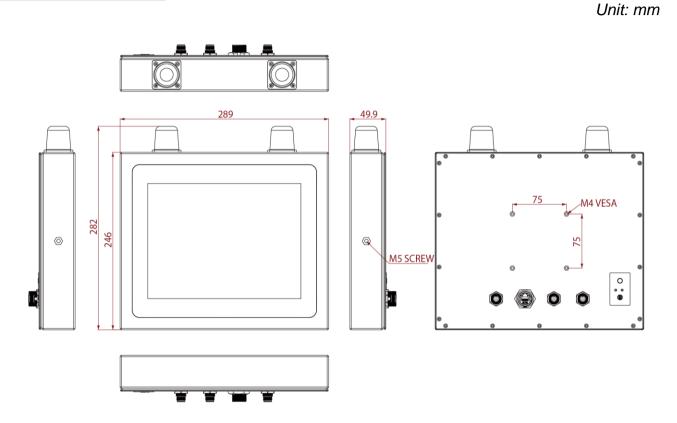
Standard factory shipment list:



### **Product Overview**

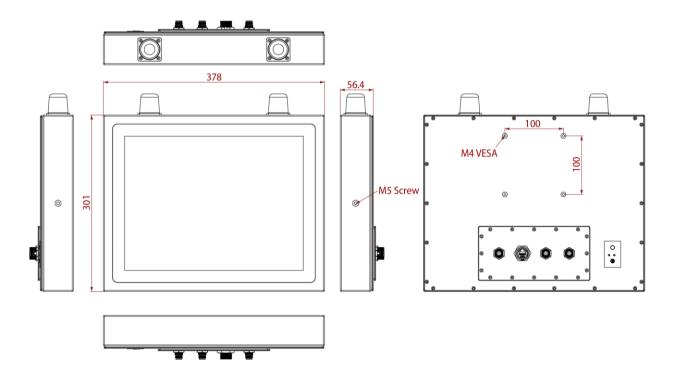
This section contains mechanical drawing of the Panel PC. Notice that this is a simplified drawing and some components are not marked in detail.

## Dimensions 10.4"



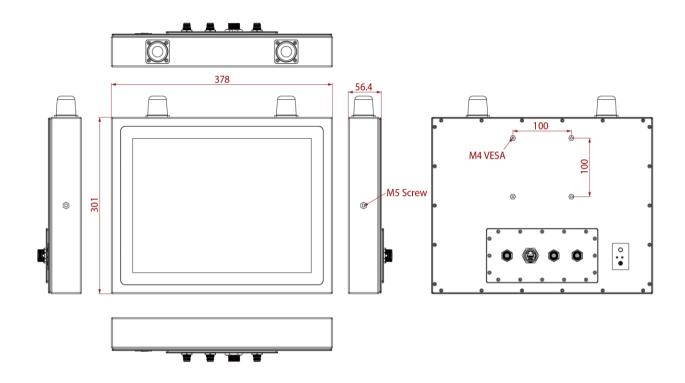
## **Dimensions 15**"

Unit: mm



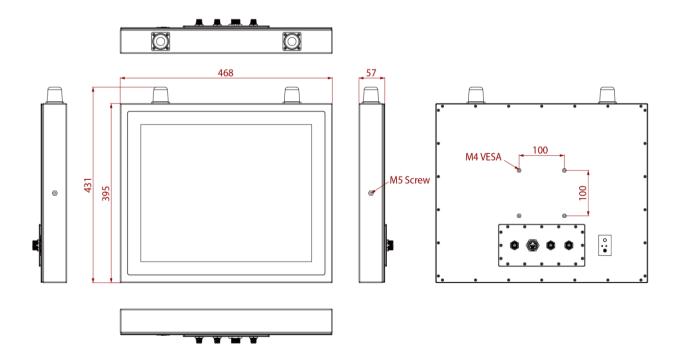
## Dimensions 17"

Unit: mm



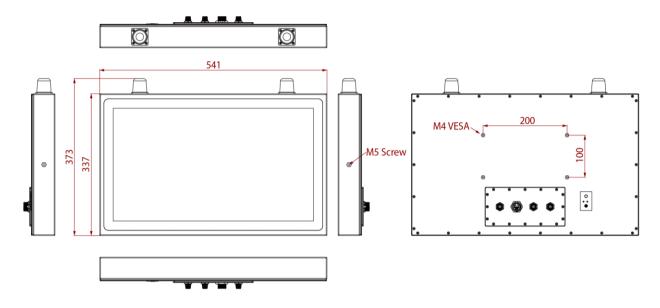
## **Dimensions 19**"

Unit: mm



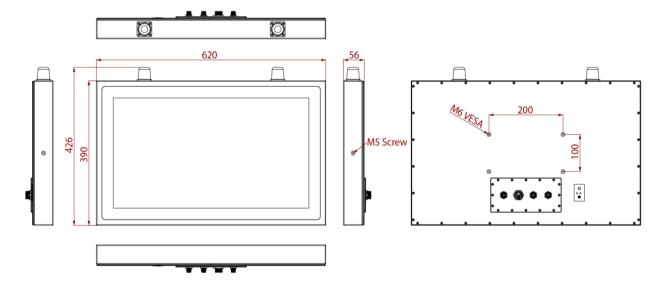
## Dimensions 21.5"

Unit: mm



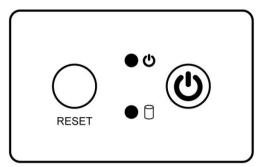
## Dimensions 23.8"

Unit: mm



## **Physical Buttons and LED Indicators**

Physical buttons and LED indicators located on the rear side of the Panel PC.



### **Physical Buttons**

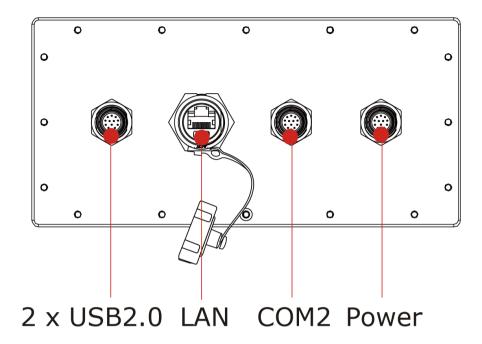
lcon	Button	Description
RESET	Reset	Press to reset the system
	Power On/ Off	Press to power on or power off the device

### **LED Indicators**

LED Type	Status	Description
<ul><li>也</li></ul>	On	Power is on
	Off	Power is off
	Blinking	Storage activity (Data is being read or written)
	Off	System is idle

### **Connectors**

IP65 Flat Stainless PCAP Panel PC has IP65 type connectors with protection cap.

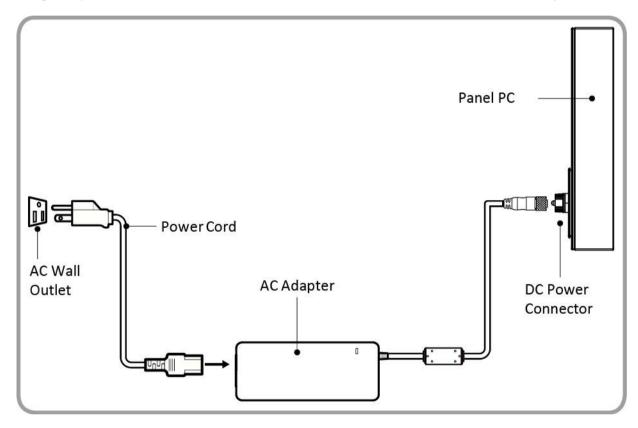


## **Getting Started**

## **Turning On Turning ON**

Follow the following steps to turn on your device:

- 1. Connect the AC adapter to the DC-in jack connector located on the back side of the Panel PC.
- 2. Connect the power cord to AC adapter.
- 3. Plug the power cord to the AC outlet and the device will turn on automatically.



AC Adapter specifications vary by panel size.

Size	10.4"	15"	17"	19"	21.5"	23.8
AC Adapter	12V/ 50W	12V/ 80W				
Power Consumption*	33W (typ.)	38W (typ.)	43W (typ.)	45W (typ.)	56W (typ.)	56W (typ.)

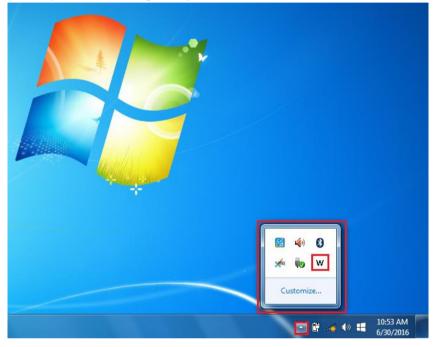
\*With maximum backlight and high CPU load.

### **How to Enable Watchdog**

To enable Watchdog, you need to download Winmate Watchdog utility. Find more information on Watchdog in "Watchdog Guide" that you can download from Winmate Download Center or File Share. Refer to the User Manual for more details.

To enable watchdog in Watchdog AP follow the instructions below:

- 1. On the right bottom side of the desktop screen, click **triangle button** to show hidden icons.
- 2. Click <sup>W</sup> icon to open Watchdog utility.



3. In Watchdog utility window set countdown time and periodically feed time, or disable watchdog.



#### Example:

Every 10 min watchdog will monitor the system, in case any error occurs the system will restart automatically when the countdown time reaches 0.

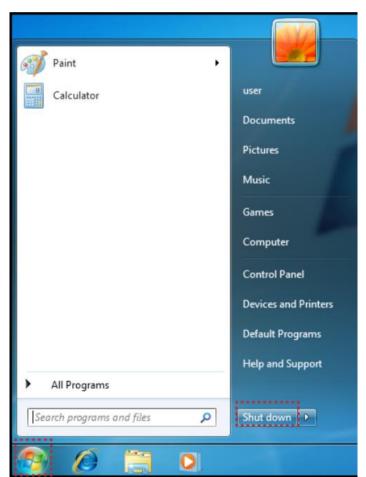
Every 9 min watchdog timer will be reset to 10 min.

Settings	Description
Watchdog Countdown Time	The system automaticity restarts when this countdown time reaches zero. Default: 10 min
Periodically Feed Time	To set a cycle time to automatically reset watchdog timer. <i>Default: 9 min</i>
Enable / Disable	Enable or disable watchdog. Default: Enable

## **Turning Off Your Device**

To shut down your device, do the following:

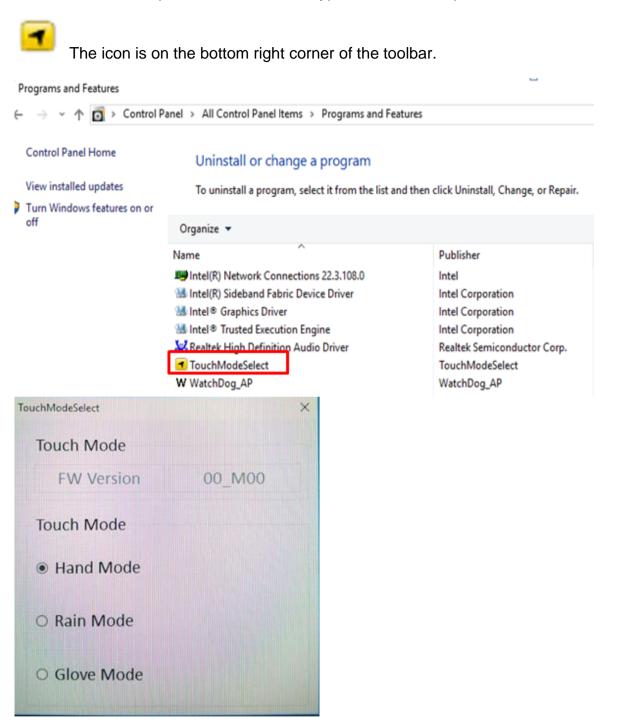
Tap Start () > Shut down.



Wait for your Panel PC to completely turn off before disconnecting the power cord (if necessary).

### **Touch Mode**

IP65 Stainless P-Cap Panel PC has three types touch modes pre-installed with Windows OS.



If the OS is not installed, please download the application on our website for switching the touch modes. If you cannot find it, please download it from Winmate Download Center or contact Winmate sales representative.

Follow the instructions below to install the *TouchModeSelect* Utility.

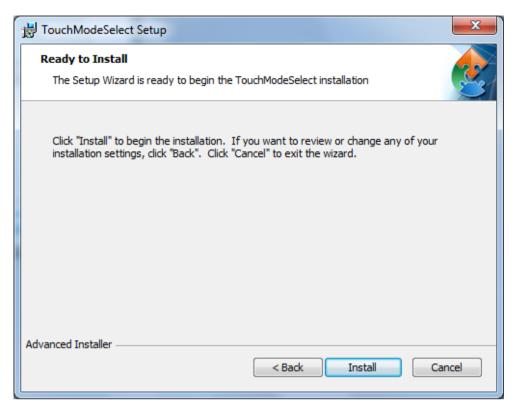
- 1. Download, install and execute **TouchModeSelect\_1.2.3** setup wizard.
- 2. Click **Next** to continue.



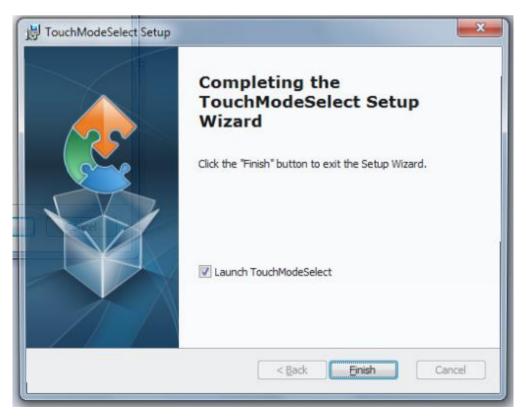
3. Select the installation folder, and click Next to continue.

B TouchModeSelect Setup	
Select Installation Folder This is the folder where TouchModeSelect will be installed.	2
To install in this folder, click "Next". To install to a different folder, enter i "Browse".	it below or click
Eolder: C:\Program Files (x86)\TouchModeSelect\TouchModeSelect\	Br <u>o</u> wse
Advanced Installer	Cancel

- 17 IP65 Stainless Flat PCAP Panel PC Quick Start Guide
  - The Setup Wizard is ready to begin the **TouchModeSelect** installation. Click **Install** to proceed.



5. When installation is complete, click **Finish** button to exit the Setup Wizard.



## Installation

### **Wiring Requirements**

The following common safety precautions should be observed before installing any electronic device:

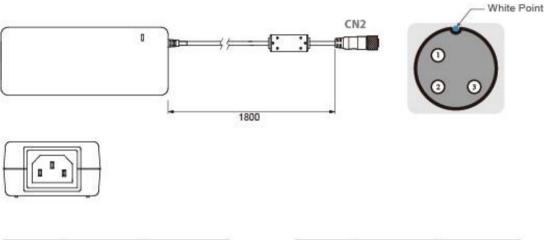
- Strive to use separate, non-intersecting paths to route power and networking wires. If power wiring and device wiring paths must cross make sure the wires are perpendicular at the intersection point.
- Keep the wires separated according to interface. The rule of thumb is that wiring that shares similar electrical characteristics may be bundled together.
- Do not bundle input wiring with output wiring. Keep them separate.
- When necessary, it is strongly advised that you label wiring to all devices in the system.
- Do not run signal or communication wiring and power wiring in the same conduit. To avoid interference, wires with different signal characteristics (i.e., different interfaces) should be routed separately.
- Be sure to disconnect the power cord before installing and/or wiring your device.
- Verify the maximum possible current for each wire gauge, especially for the power cords. Observe all electrical codes dictating the maximum current allowable for each wire gauge.
- If the current goes above the maximum ratings, the wiring could overheat, causing serious damage to your equipment.
- Be careful when handling the unit. When the unit is plugged in, the internal components generate a lot of heat which may leave the outer casing too hot to touch.

### **Connector Pin Assignments**

This Panel PC is equipped with four connectors which are IP65 level and fool-proofing design. Use only the cables that are included in the package. The pin assignments of the cables are as follows.

### Power Cable

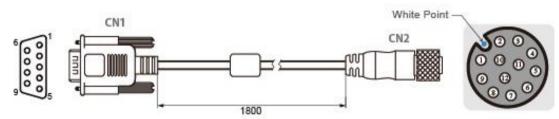
The Flat Stainless PCAP Panel PC has IP65 connector. Use power cable to connect Panel PC to the source of power. Flat Stainless PCAP Panel PC support 12V DC power input.



Pin No.	Symbols	Color		Pin No.	Symbols	Color
CN1-1	VIN -	NO ASSIGN	$\leftrightarrow$	CN2-1	VCC+	Flow Adapter
CN1-2	VIN -	NO ASSIGN	$\leftrightarrow$	CN2-2	GND	Flow Adapter
CN1-3	VIN -	NO ASSIGN	$\leftrightarrow$	CN2-3	VCC -	Flow Adapter

## Serial Cable

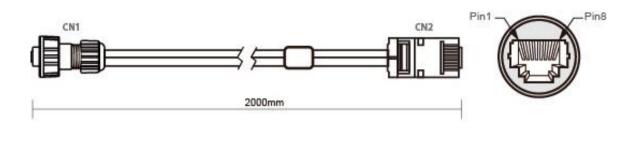
The Flat Stainless PCAP Panel PC has IP65 serial port connector. Use serial cable to connect serial interfaces.



Pin No.	Symbols	Color		Pin No.	Symbols	Color
CN1-1	DCD-CON2	Green	$\rightarrow$	CN2-1	DCD-CON2	Green
CN1-6	DSR-CON2	Brown		CN2-2	DSR-CON2	Brown
CN1-2	RXD-CON2	Red		CN2-3	RXD-CON2	Red
CN1-7	RTS-CON2	Orange		CN2-4	RTS-CON2	Orange
CN1-3	TXD-CON2	Blue		CN2-5	TXD-CON2	Blue
CN1-8	CTS-CON2	White		CN2-6	CTS-CON2	White
CN1-4	DTR-CON2	Purple		CN2-7	DTR-CON2	Purple
CN1-9	RI-CON2	Yellow	$\leftrightarrow$	CN2-8	RI-CON2	Yellow
CN1-5	GND-CON2	Black	$\leftrightarrow$	CN2-9	GND-CON2	Black

### **Ethernet Cable**

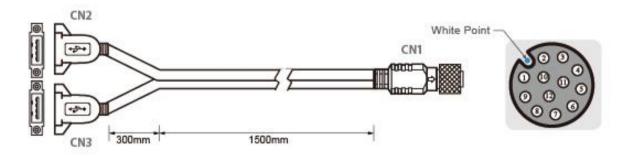
The Flat Stainless PCAP Panel PC has IP65 Ethernet connector. Use Ethernet cable to connect the Panel PC to the Internet.



Plug	Wire Color	Conn.		
1	Orange / White	1	Twist	
2	Orange	2		
3	Green / White	3	1	1
4	Blue	4	hrust	Turist
5	Blue / White	5	Twist	Twist
6	Green	6	<u> </u>	
7	Brown / White	7	Twist	
8	Brown	8		

## USB 2.0 Cable

Flat Stainless PCAP Panel PC has one full IP65 USB 2.0 connector. Use USB 2.0 cable to connect external devices such as mouse or keyboard to the Panel PC.



Pin No.	Symbols	Color	1 1	Pin No.	Symbols	Color	1
CN1-2	VCC	RED	$] \leftrightarrow ]$	CN2-1	VCC	RED	
CN1-3	D-	WHITE	$\rightarrow$	CN2-2	D-	WHITE	
CN1-4	D+	GREEN	$] \longleftrightarrow$	CN2-3	D+	GREEN	- twisted pair
CN1-5	GND	BLACK	$  \leftrightarrow  $	CN2-4	GND	BLACK	1
CN1-6	VCC	RED	$\rightarrow$	CN3-1	VCC	RED	]
CN1-7	D-	WHITE	$\rightarrow$	CN3-2	D-	WHITE	
CN1-8	D+	GREEN	$] \leftrightarrow ]$	CN3-3	D+	GREEN	+ twisted pair
CN1-9	GND	BLACK	$\leftrightarrow$	CN3-4	GND	BLACK	
CN1-1	GND	Braid	$\rightarrow$	Braid co	nnect to the h	ousing	

## Mounting

IP65 Flat Stainless PCAP Panel PC devices come with different mounting options suitable for most of the industrial and commercial applications.

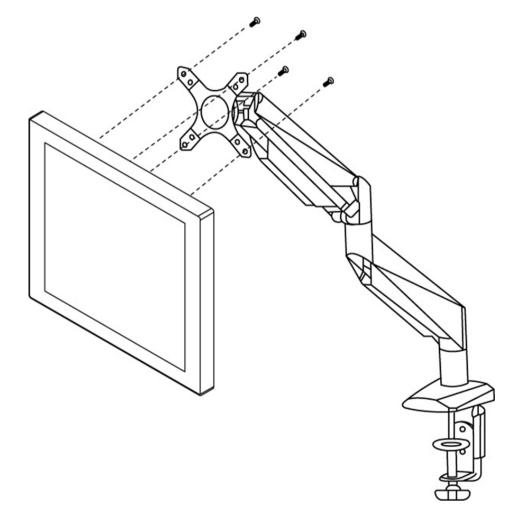
## **VESA Mounting**

The Panel PC has VESA mount holes on the rear side. Follow instructions below to mount the unit with VESA Mount bracket (not supplied by Winmate).

Size	VESA Plate Dimensions	Screw Hole Diameter
10.4", 15", 17", 19"	100 x 100 mm	VESA M4x5 mm
21.5"	100 x 200 mm	VESA M4x5 mm
23.8"	100 x 200 mm	VESA M6x8 mm

#### **Mounting Instruction:**

- 1. Screw VESA bracket to the fixture (ex. swing arm) with four VESA screws.
- 2. Place the device on VESA bracket.

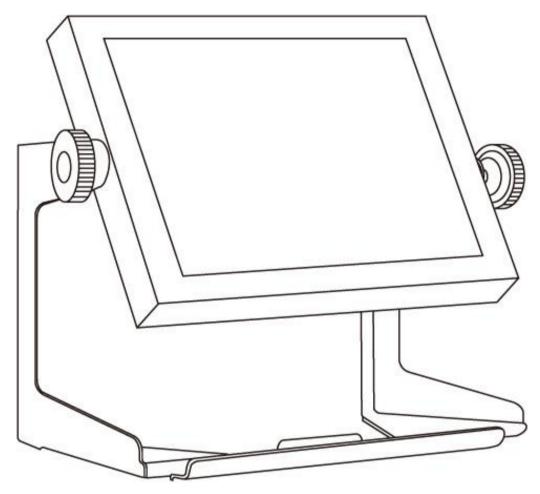


## Yoke Mounting

Yoke Mount solution allows installing the Panel PC with the bracket (not supplied by Winmate).

### Mounting instruction:

- 1. Place the Panel PC on the bracket stand, aiming screw holes for each other.
- 2. Secure screws to fix the device upon the bracket stand.
- 3. Firmly secure the locking handle to the Panel PC.



## **Specifications**

### **Hardware Specifications**

			Mode	Name	Model Name						
	R10IB3S-SPT2	R15IB3S-SPC3	R17IB3S-SPM1	R19IB3S-SPM1	W22IB3S-SPA3	W24IB3S-SPA2					
Display											
Size Resolution Brightness	10.4" 1024 x 768 350 <i>cd/m</i> <sup>2</sup>	15" 1024 x 768 300 <i>cd/m</i> <sup>2</sup>	17" 1280 x 1024 350 <i>cd/m</i> <sup>2</sup>	19" 1280 x 1024 250 <i>cd/m</i> <sup>2</sup>	21.5" 1920 x 1080 250 <i>cd/m</i> <sup>2</sup>	23.8" 1920 x 1080 250 <i>cd/m</i> <sup>2</sup>					
Contrast Ratio	1000:1 (typ.)	2000 : 1(typ.)	1000 : 1 (typ.)	1000:1(typ.)	3000 : 1(typ.)	3000 : 1(typ.)					
Viewing Angle	-88~88(H); -88~88(V)	-88~88(H); -88~88(V)	-85~85(H); -80~80(V)	-85~85(H); -80~80(V)	-89~89(H); -89~89(V)	-89~89(H); -89~89(V)					
Max Colors	16.2M	16.2M	16.7M	16.7M	16.7M	16.7M					
Touch	PCAP (Default)	PCAP (Default), AG Coating (Optional)	PCAP (Default)	PCAP (Default), AG Coating (Optional)	PCAP (Default), AG Coating (Optional)	PCAP (Default)					
System					· · · ·						
Processor	Intel® Celeron® Bay Trail-M N2930 1.83 GHz	Intel® Celeron® Bay Trail-M N2930 1.83 GHz	Intel® Celeron® Bay Trail-M N2930 1.83 GHz	Intel® Celeron® Bay Trail-M N2930 1.83 GHz	Intel® Celeron® Bay Trail-M N2930 1.83 GHz	Intel® Celeron® Bay Trail-M N2930 1.83 GHz					
BIOS	AMI 16Mbit Flash										
System Chipset	Intel® Atom™ SoC Integrate	Intel® Atom™ SoC Integrate	Intel® Atom™ SoC Integrate	Intel® Atom™ SoC Integrate	Intel® Atom™ SoC Integrate	Intel® Atom™ SoC Integrate					
System Memory	1 x SO-DIMM (4GB, max. 8GB DDR3L 1600)										
Storage	64GB	64GB	64GB	64GB	64GB	64GB					
Graphic Chipset	Integrated HD Graphics	Integrated HD Graphics									
Audio Ethernet	Built in ALC886 HD Audio Codec 2 x RJ45 Gigabit LAN (1 x RJ45	Built in ALC886 HD Audio Codec 2 x RJ45 Gigabit LAN (1 x RJ45	Built in ALC886 HD Audio Codec 2 x RJ45 Gigabit LAN (1 x RJ45	Built in ALC886 HD Audio Codec 2 x RJ45 Gigabit LAN (1 x RJ45	Built in ALC886 HD Audio Codec 2 x RJ45 Gigabit LAN (1 x RJ45	Built in ALC886 HD Audio Codec 2 x RJ45 Gigabit LAN (1 x RJ45					
Expansion Slot	internal) 1 x Mini PCIe (Internal)										
SSD Interface	1 x Mini PCIe SSD										
Input/ Output Co	onnectors										
Ethernet LAN	1 x RJ45 - 10/100/1000 Mbps										
COM	1 x RS232										
USB	2 x USB Type-A										

	Model Name							
	R10IB3S-SPT2	R15IB3S-SPC3	R17IB3S-SPM1	R19IB3S-SPM1	W22IB3S-SPA3	W24IB3S-SPA2		
	Receptacle	Receptacle	Receptacle	Receptacle	Receptacle	Receptacle		
Power	1 x 12VDC	1 x 12VDC	1 x 12VDC	1 x 12VDC	1 x 12VDC	1 x 12VDC		
Mechanical Specification								
Cooling System	Fanless	Fanless	Fanless	Fanless	Fanless	Fanless		
Mounting	Yoke Mount, VESA Mount	Yoke Mount, VESA Mount	Yoke Mount, VESA Mount	Yoke Mount, VESA Mount	Yoke Mount, VESA Mount	Yoke Mount, VESA Mount		
Housing	Stainless steel SUS 316/ AISI 316	Stainless steel SUS 316/ AISI 316	Stainless steel SUS 316/ AISI 316	Stainless steel SUS 316/ AISI 316	Stainless steel SUS 316/ AISI 316	Stainless steel SUS 316/ AISI 316		
Environmental Consideration								
Operating Temperature	0°C to +45°C	0°C to +45°C	0°C to +45°C	0°C to +45°C	0°C to +45°C	0°C to +45°C		
Operating Humidity	30% to 90% (non- condensing)	30% to 90% (non- condensing)	30% to 90% (non- condensing)	30% to 90% (non- condensing)	30% to 90% (non- condensing)	30% to 90% (non- condensing)		
IP Rating	Full IP65	Full IP65	Full IP65	Full IP65	Full IP65	Full IP65		
Power Specifications								
Power Input	12V DC IN (Lockable Power Jack)	12V DC IN (Lockable Power Jack)	12V DC IN (Lockable Power Jack)	12V DC IN (Lockable Power Jack)	12V DC IN (Lockable Power Jack)	12V DC IN (Lockable Power Jack)		
Power Consumption	33W (typ.)	38W (typ.)	43W (typ.)	45W (typ.)	56W (typ.)	56W (typ.)		
Standards and Certification								
Certification	CE, FCC, RoHs	CE, FCC, RoHs	CE, FCC, RoHs	CE, FCC, RoHs	CE, FCC, RoHs	CE, FCC, RoHs		

#### NOTE:

- 1. Accessories and Integrated Options may vary depending on your configuration. The product shown in this datasheet is a standard model. For diagrams that contain customized or optional I/O, please contact the Winmate Sales Team for more information.
- 2. All specifications are subject to change without prior notice.

## **Appendix**

## **Appendix A: Cleaning the Monitor**

#### **Before cleaning:**

- Make sure the device is turned off.
- Disconnect the power cable from any AC outlet.

#### When cleaning:

- Never spray or pour any liquid directly on the screen or case.
- Wipe the screen with a clean, soft, lint-free cloth. This removes dust and other particles.
- The display area is highly prone to scratching. Do not use ketene type material (ex. Acetone), Ethyl alcohol, toluene, ethyl acid or Methyl chloride to clear the panel. It may permanently damage the panel and void the warranty.
- If it is still not clean enough, apply a small amount of non-ammonia, non-alcohol based glass cleaner onto a clean, soft, lint-free cloth, and wipe the screen.
- Don not use water or oil directly on the display screen. If droplets are allowed to drop on the screen, permanent staining or discoloration may occur.

## **Appendix B: Winmate Software Development Kit**

Winmate provides the following SDK and Utilities for the IP65 Flat Stainless PCAP Panel PC.

Item	File Type	Description
1	SDK	Watchdog SDK
2	Utility	Watchdog Utility

To find the Drivers and SDK, please refer to the Driver CD that comes in the package or contact us. Also, you can download drivers from Winmate Download Center.

### Winmate Download Center

Go to <u>https://www.winmate.com /</u> > Support > Download Center > Full IP65 Stainless PPC > IP65 Flat PCAP Series – Bay Trail

Or follow the link:

http://www.winmate.com.tw/DownCenter/DownLoadCenter.asp?DownType=4302

Notes	



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