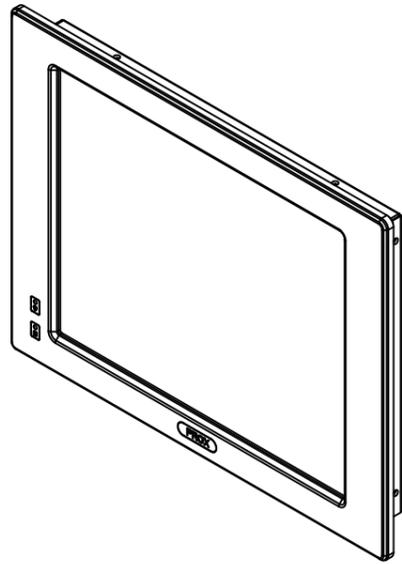


SP-6157/ SP-6159

Quick Reference Guide



Ver. Q1

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Specification

System

CPU Support	Intel® Celeron® N3350 2C, 2.4Ghz Intel® Pentium® N4200 4C, 2.5Ghz Intel® Atom™ x7 E3950 4C, 2.0Ghz
Memory Support	1 x DDR3L 1600/1867 SO-DIMM socket, memory up to 8 GB
Drive Bay	1 x 2.5 inch SATAIII HDD or SSD drive space
Power Supply	DC in 9~36V
Operating System	Windows 10 IoT Enterprise LTSB 2016 64bit / Ubuntu 16.04 LTS
Weight / Dimension	SP-6157 : 7.1kg / 448mm(W) x 352mm(H) x 89mm(D) SP-6159 : 10.7kg / 471mm(W) x 396mm(H) x 91.28mm(D)
Certificate	FCC/CE

I/O Ports

Display	1 x HDMI (up to 4K), 1 x DVI-D
USB	3 x USB 3.0
Serial Port	COM 1 / 2 for RS232 / 422 / 485 selectable by BIOS, R1 / 5V / 12V selectable by jumper
Antenna Hole	4 x antenna holes
Drive Bay	1 x 2.5 inch SATAIII HDD or SSD drive space
Expansion Slots	1 x Full-sized mini-PCIe(mSATA or 3G/4G card with USB 2.0 signal) 1 x Full-sized mini-PCIe(PCIe or 3G/4G card with USB 2.0 signal) 1 x SD slot / 2 x SIM slot
LAN	2 x LANs with PoE (IEEE 802.3af) as option, Wake-On-LAN, PXE LAN 1: Intel® I210IT / LAN 2 : Intel® I210IT
Audio	1 x Line-out / 1 x MIC-In
Power On/Off	1 x power button, 1 x remote switch
LED	2 x PoE LED
I ² C	1 x I ² C port

Display

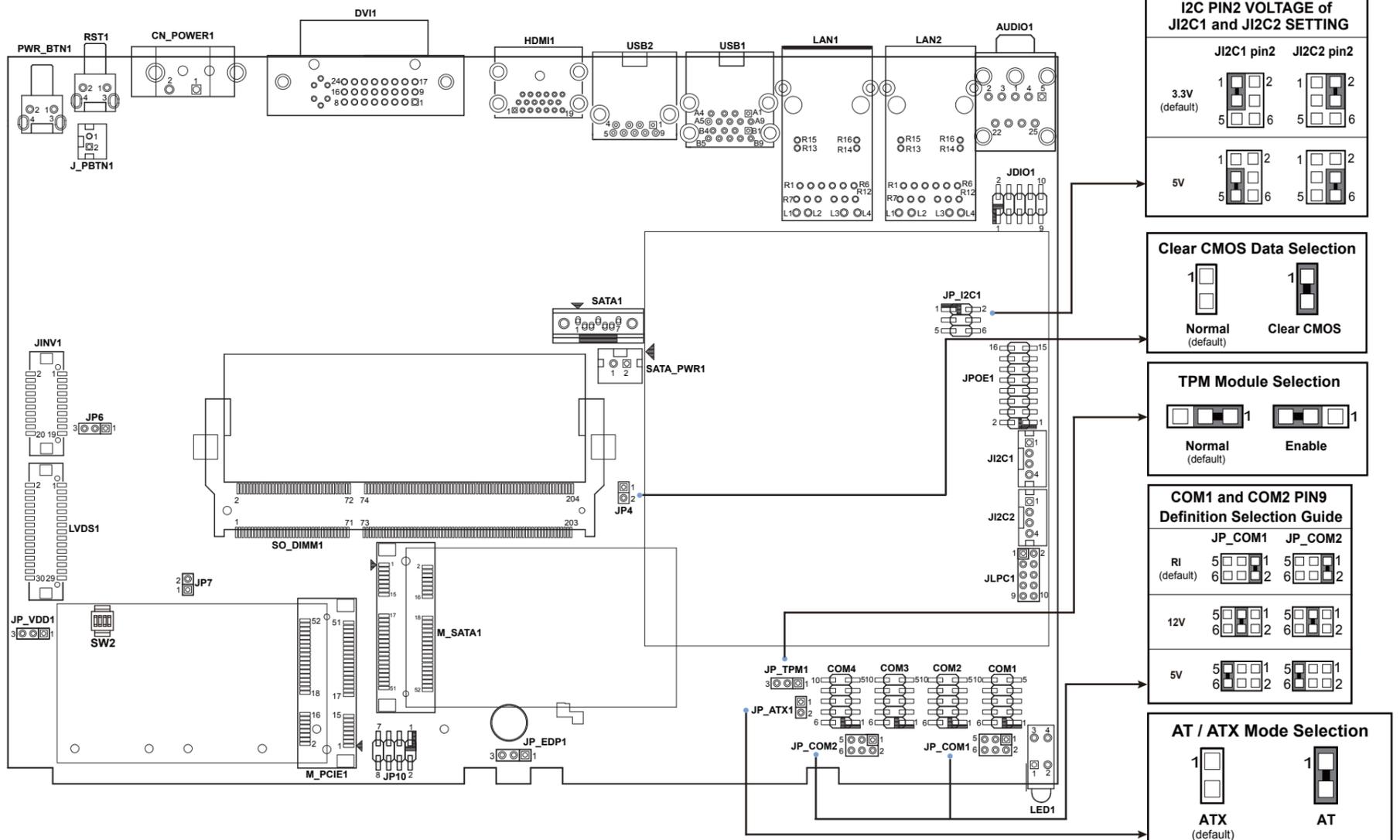
LCD	SP-6157 : 17" TFT LCD(LED) Resolution SVGA 1280 x 1024, 350nit SP-6159 : 19" TFT LCD(LED) Resolution SVGA 1280 x 1024, 300nit
Touch Screen	5-wire resistive touch screen (USB interface)

Environment

Operating Temp. (with air flow)	HDD: 0°C ~ 40°C / SSD: 0°C ~ 50°C Wide Temperature: 0°C ~ 50°C (without PoE and for N3350, N4200 only) 0°C ~ 45°C (with PoE and for N3350, N4200 only) -20°C ~ 50°C (without PoE and for E3950 only) -20°C ~ 45°C (with PoE and for E3950 only)
Storage Temp.	-20°C ~ 80°C (-4°F ~ 176°F)
Humidity	20% ~ 90%

Jumper Setting

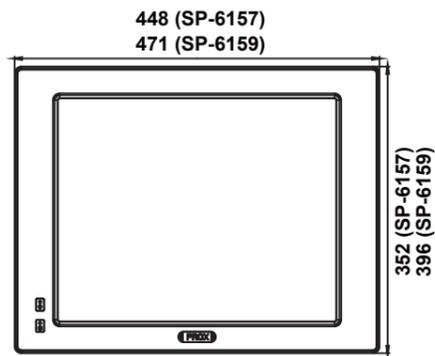
CAUTION! Danger of explosion may occur if the battery is replaced incorrectly. Replace batteries only with the same or equivalent type recommended by the manufacturer. Dispose the used batteries according to the manufacturer's instructions.



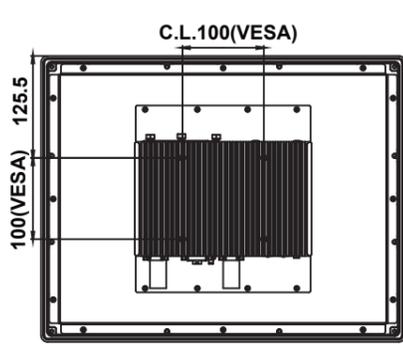
System Overview

(Unit: mm)

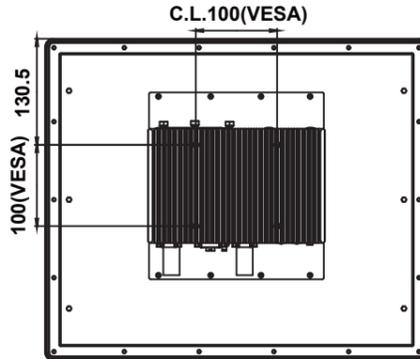
Front View



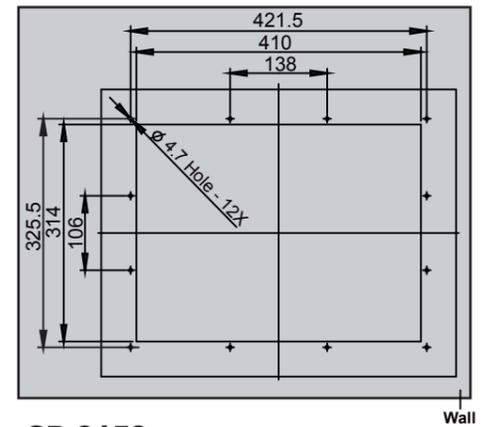
Rear View (SP-6157)



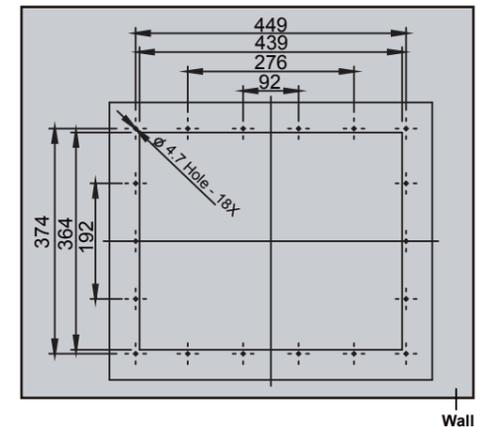
Rear View (SP-6159)



Wall Mount Cut-out Dimensions

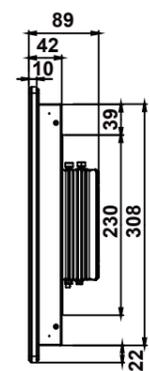


SP-6159

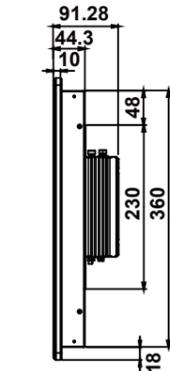


Rifgt Side View

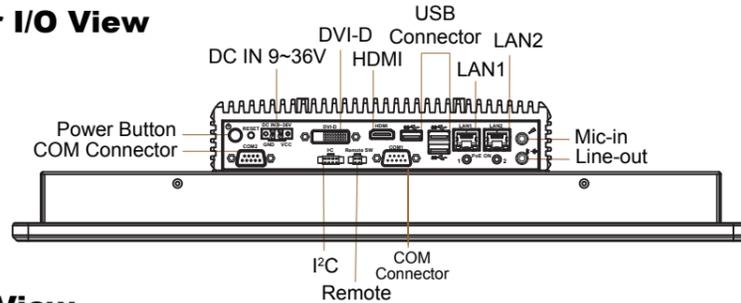
SP-6157



SP-6159

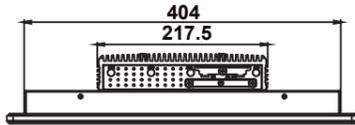


Rear I/O View

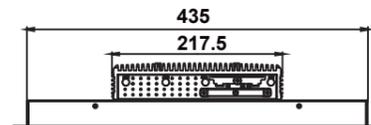


Top View

SP-6157



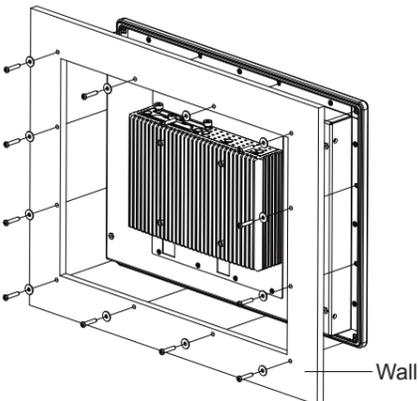
SP-6159



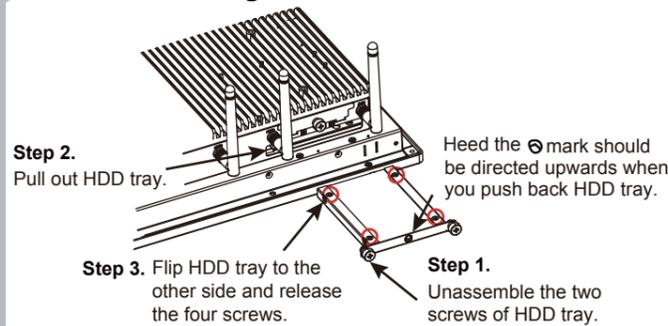
Quick Setup

Installing Panel Mount

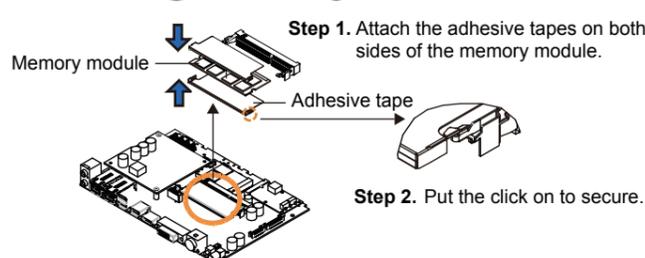
Tighten the screws into the 12 mounting holes (SP-6157) / 18 mounting holes (SP-6159) of the wall fixture as shown to mount Panel PC onto the wall securely. The panel mount installation is applicable for both SP-6157 and SP-6159 Panel PCs.



HDD Easy Maintenance



Installing Memory Heatsink



HDD & Memory and VESA Mount Accessories

HDD Tray



M3 x 5 mm Screw x 4

Memory Heatsink



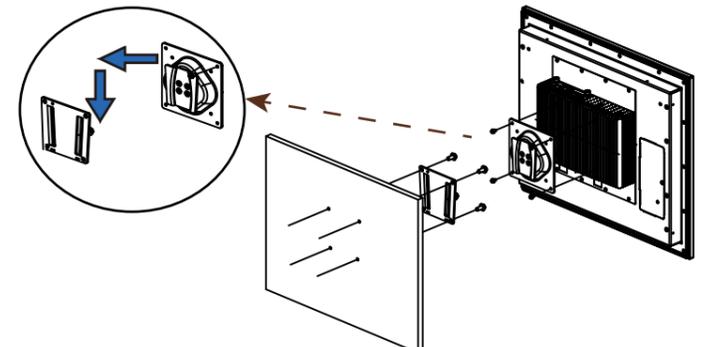
Memory Heatsink x 2

VESA Mount



VESA Mount Kit x 1

Installing VESA Mount

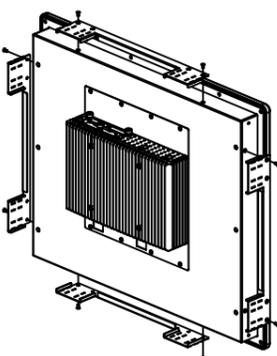


Installing Hooks

SP-6157 & SP-6159

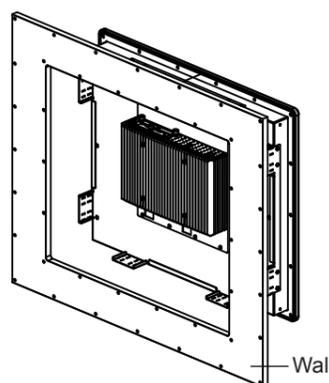
Step 1. Install the hooks into the mounting hole on the four sides of SP-6157 & SP-6159 using 8 pieces M3x5mm screws.

The top-side hook is only available for SP-6157 & SP-6159.



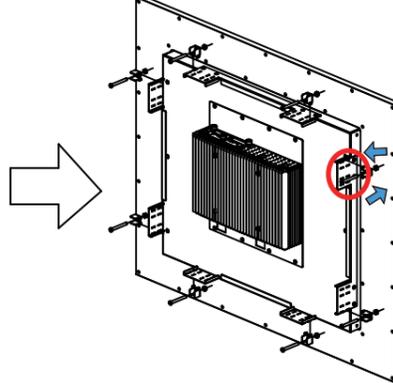
SP-6157 & SP-6159

Step 2. Mount SP-6157 & SP-6159 Panel PC equipped with 8 hooks onto the wall firmly.



SP-6157 & SP-6159

Step 3. The operation is the same as above.



Hook Accessories (option)

Mounting Brackets



x 4 for SP-6157 & SP-6159



x 8 for SP-6157

M3x5mm screw



x 8 for SP-6157



x 8 for SP-6157

M4x35mm screw

M4 Nut

1. Install the bracket.
2. Tighten the screw.

The bottom-side hook is only available for SP-6157 & SP-6159.

Safety Precaution

The following messages are reminders for safety on how to protect your system from damages and to extend a long life of the system.

1. Check the Cable Voltage

- The range of operating voltage should be between DC 9V and 36V. Otherwise, the system could be damaged.

2. Environmental Conditions

- Place your SP-6157 / SP-6159 on a sturdy, level surface. Be sure to allow enough space to have easy access around the system.
- Avoid extremely hot or cold place to install the system.
- Avoid exposure to sunlight for a long period of time or in an airtight space.
- Avoid the system from any heating device or using 1SP-6157 / SP-6159 when it's been left outdoors in a cold winter day.
- Bear in mind that the operating ambient temperature is from 0°C ~ 40°C for HDD & 0°C ~ 50°C for SSD.
- Avoid moving the system rapidly from a hot place to a cold place and vice versa because condensation may come from inside of the system.
- Placing SP-6157 / SP-6159 in strong vibrations may cause hard disk failure.
- Don't place the system close to any radio-active device in case of signal interference.

3. Handling

- Avoid putting heavy objects on top of the system.
- Don't turn the system upside down. This may cause the floppy drive and hard drive to mal-function.
- If water or other liquid spills into this product, unplug the power cord immediately.

4. Good Care

- When the outside of the case is stained, remove the stain with a neutral washing agent with a dry cloth.
- Never use strong agents such as benzene and thinner to clean the system.
- If heavy stains are present, moisten a cloth with diluted neutral washing agent or with alcohol and then wipe thoroughly with a dry cloth.
- If dust has been accumulated on the outside, remove it by using a special made vacuum cleaner for computers.

CAUTION! Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

WARNING! Some internal parts of the system may have high electrical voltage. And therefore we strongly recommend that qualified engineers can open and disassemble the system. Please handle LCD and Touchscreen with extra care as they are easily breakable.