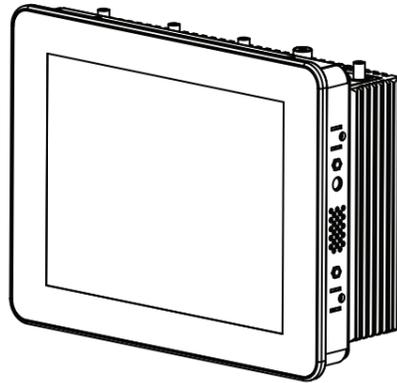


# SP-6558/ SP-6550

## Quick Reference Guide



Ver. Q1

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### Specification

#### System

CPU Type	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 (up to 8 GB)
Drive Bay	1 x 2.5" SATAIII HDD or SSD drive space
Power Supply	DC In 9~36V
Operating System	Windows 10 IoT Enterprise LTSB 2016 64bit / Ubuntu16.04 LTS
Weight / Dimensions	<b>SP-6558:</b> 2.5kg / 224.4(W) x 176.4(H) x 76mm(D) <b>SP-6550:</b> 3.0kg / 259.6(W) x 216(H) x 73.6mm(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 Ports	COM1/2 for RS-232/422/485 selectable under BIOS 5V/12V/RI selectable by jumper
Antenna Holes	4 x antenna holes
Drive Bay	1 x 2.5" SATAIII HDD or SSD drive space
Expansion Slots	1 x Full-sized Mini PCIe(mSATA or 3G/4G card with USB 2.0 signals) 1 x Full-sized Mini PCIe(PCIE or 3G/4G card with USB 2.0 signals) 1 x SD slot / 2 x SIM slots
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 indicators
I <sup>2</sup> C	1 x I <sup>2</sup> C port

#### Display

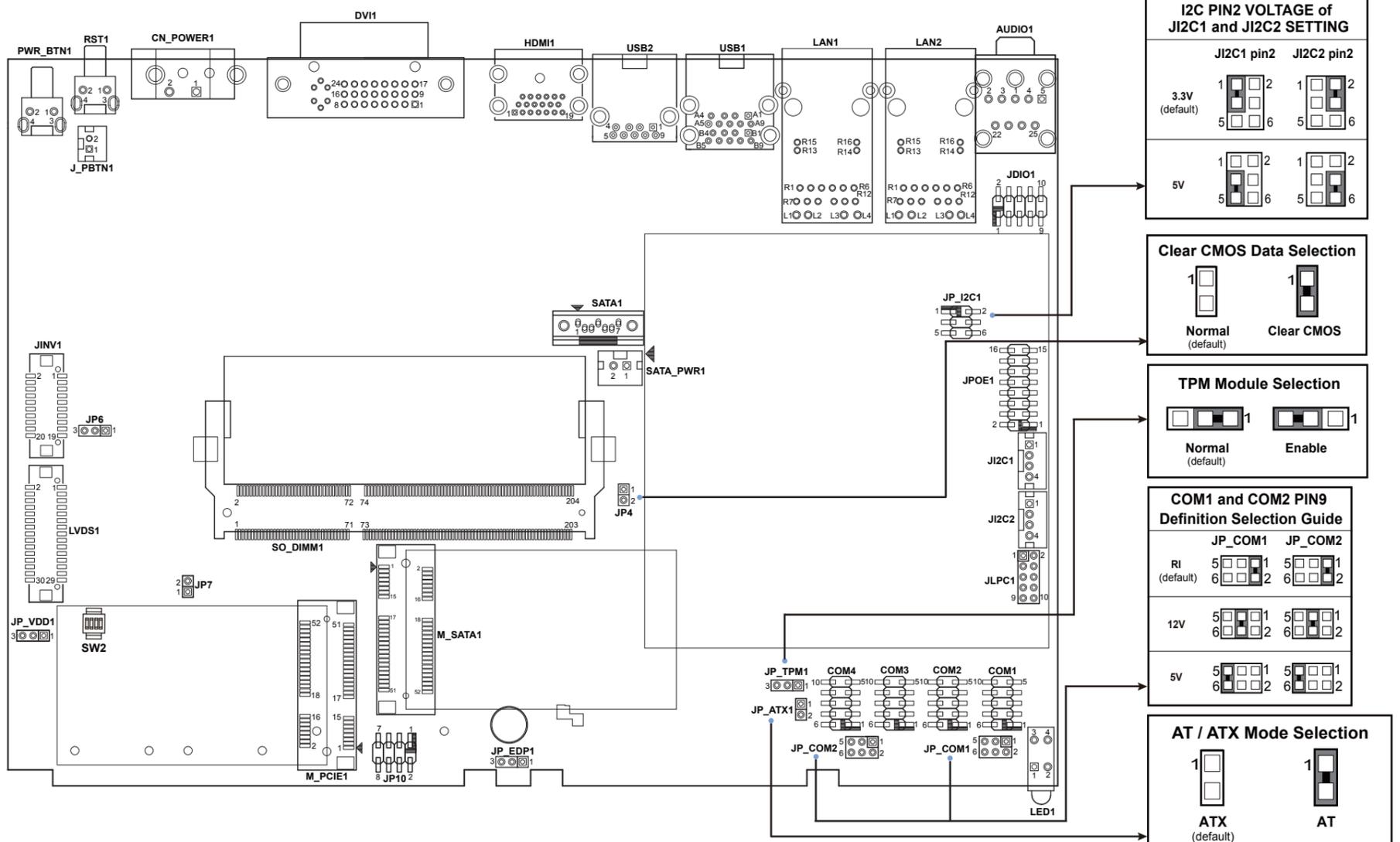
LCD	<b>SP-6558:</b> 8.4" TFT LCD(LED) Resolution SVGA 800 x 600 <b>SP-6550:</b> 10.4" TFT LCD(LED) Resolution SVGA 800 x 600
Touchscreen	5-wire resistive touchscreen or projected capacitive touchscreen (USB interface)

#### Environment

Operating Temp. (with airflow)	<b>HDD:</b> 0°C ~ 40°C / <b>SSD:</b> 0°C ~ 45°C Wide Temperature SSD: 0°C ~ 50°C SSD (without PoE and for N3350, N4200 only) 0°C ~ 45°C SSD (with PoE and for N3350, N4200 only) -20°C ~ 50°C SSD (without PoE and for E3950 only) -20°C ~ 45°C SSD (with PoE and for E3950 only)
Storage Temp.	-30°C ~ 60°C (-22°F ~ 140°F)
Humidity	20% ~ 95%

## Jumper Setting

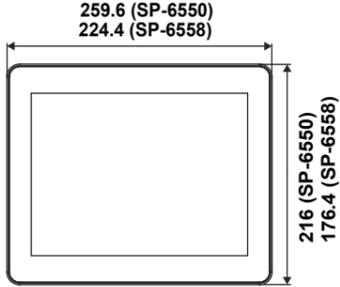
**CAUTION!** Danger of explosion may occur if the battery is replaced incorrectly. Replace batteries only with the same or equivalent type recommended by the manufacturer. Dispose the used batteries according to the manufacturer's instructions.



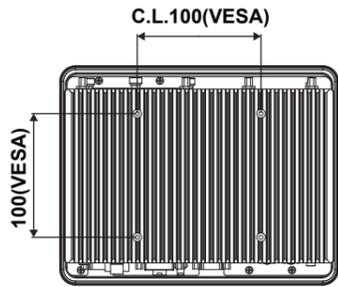
# System Overview

(Unit: mm)

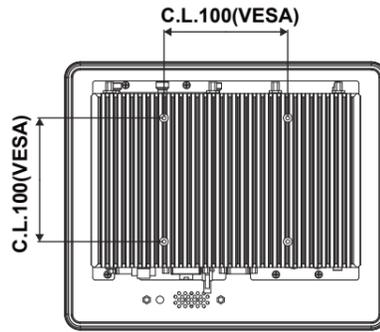
## Front View



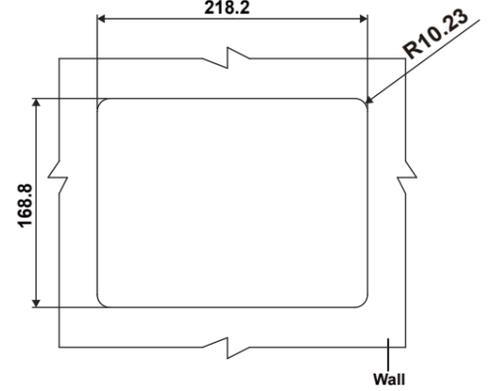
## Rear View (SP-6558)



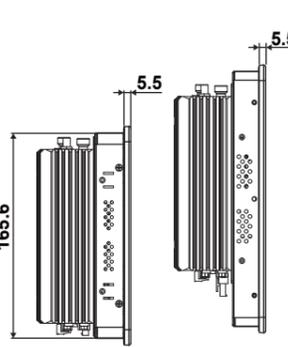
## Rear View (SP-6550)



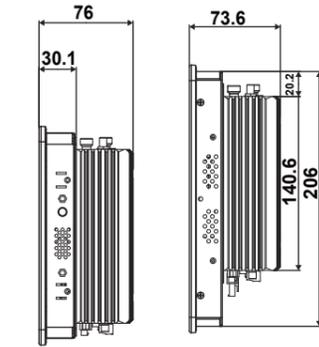
## Wall Mount Cut-out Dimensions



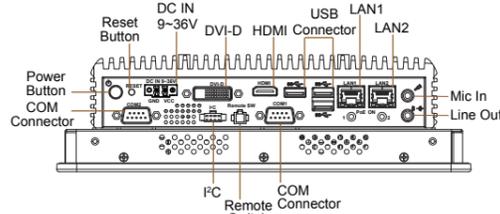
## Left Side View



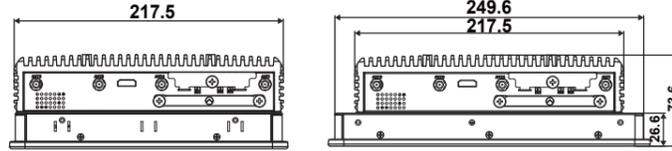
## Right Side View



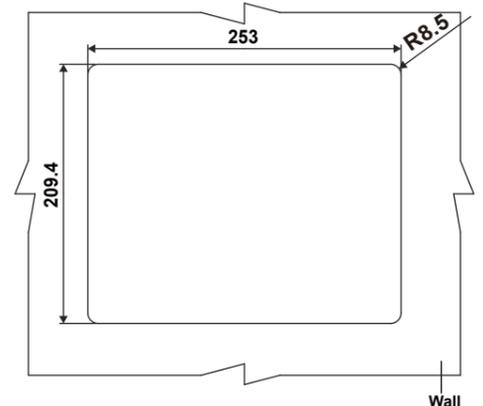
## Rear I/O View



## Top View



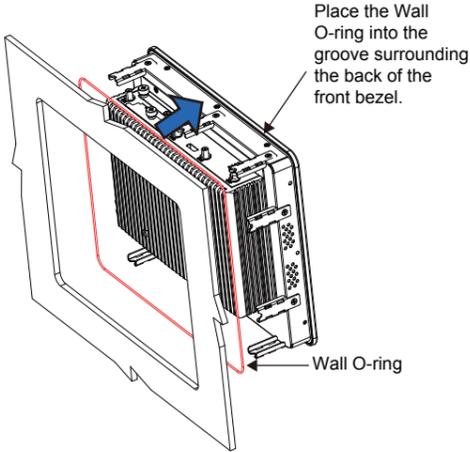
## SP-6550



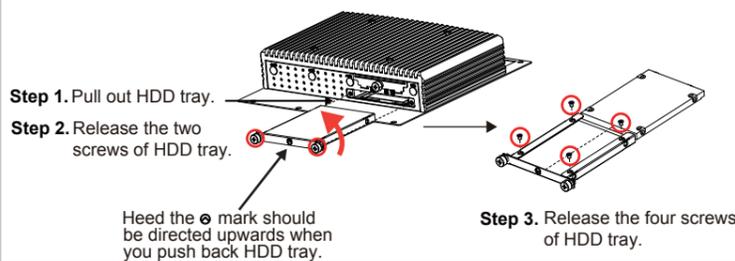
# Quick Setup

## Installing Wall O-ring

Step 1. Place the Wall O-ring into the groove surrounding on the back of the front bezel properly.



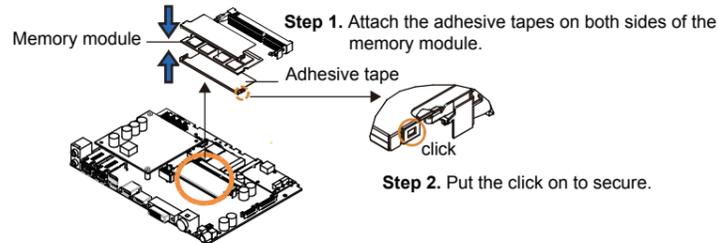
## HDD Easy Maintenance



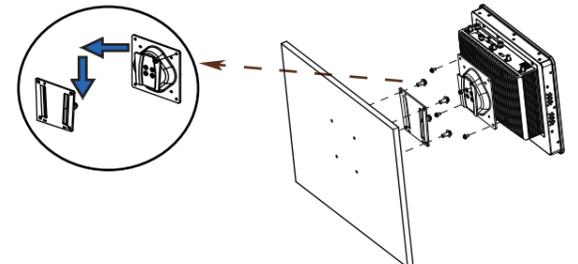
## HDD & Memory & VESA Mount Accessories



## Installing Memory Heatsink

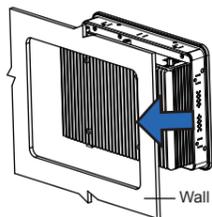


## Installing VESA Mount

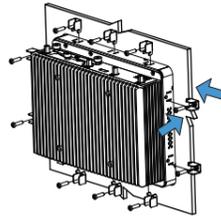


## Installing Hooks For SP-6658

Step 1. Install SP-6658 system on the wall firmly.

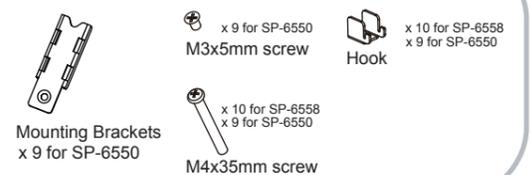


Step 2. Install 10 mounting hooks on the four sides of Panel PC and fasten the mating screws to secure firmly.



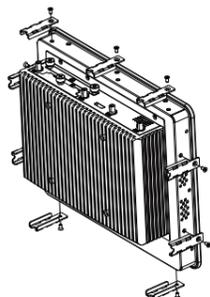
1. Install the hook.
2. Tighten the screw.

## Hook Accessories (option)

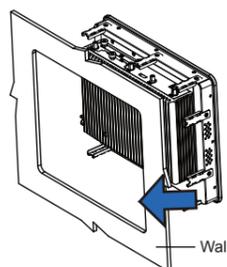


## Installing Hooks For SP-6650

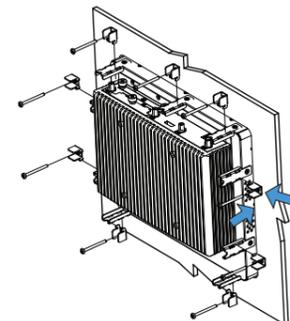
Step 1. Install the mounting brackets into the mounting holes on the four sides of SP-6550 using 9 x screws (M3x5mm).



Step 2. Mount SP-6550 Panel PC equipped with 9 brackets onto the wall firmly.



Step 3. Install 9 hooks onto the mounting brackets on the four sides of Panel PC and fasten the mating screws to secure firmly.



1. Install the hook.
2. Tighten the screw.

# 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-6558 / SP-6550 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 SP-6558 / SP-6550 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 ~ 45°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-6558 / SP-6550 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.

- Do not turn the system upside down. This may cause the 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.