prox
PROTECH Group

SP-6150/ SP-6155

Quick Reference Guide

Ver. Q3

Specification

System

CPU Support	Intel® Celeron® N3350 2C, 2.4Ghz
	Intel® Celeron® J3455 4C, 2.3Ghz
	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 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 / Dimensions	**SP-6150** : 3.4kg / 277.6mm(W) x 228.8mm(H) x 78mm(D)
	SP-6155 : 6.3kg / 408mm(W) x 308mm(H) x 93mm(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	COM 1 / 2 for RS232 / 422 / 485 selectable under BIOS
	RI / 5V / 12V 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 signal)
	1 x Full-sized mini-PCIe (PCIe or 3G/4G card with USB 2.0 signal)
	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
I²C	1 x I²C port

Display

LCD	**SP-6150** : 10.4" TFT LCD(LED) Resolution SVGA 800 x 600
	SP-6155 : 15" TFT LCD(LED) Resolution XGA 1024 x768
Touchscreen	5-wire resistive touchscreen (USB interface)

Environment

Operating Temp.	HDD: 0°C ~ 40°C / SSD: 0°C ~ 50°C
(with air flow)	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.

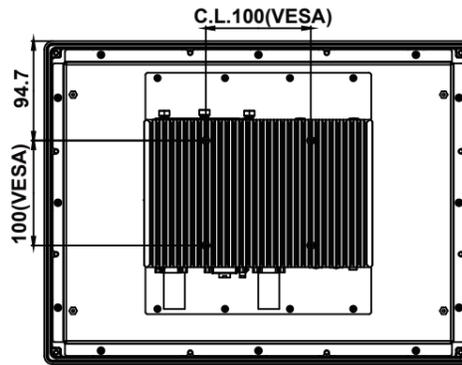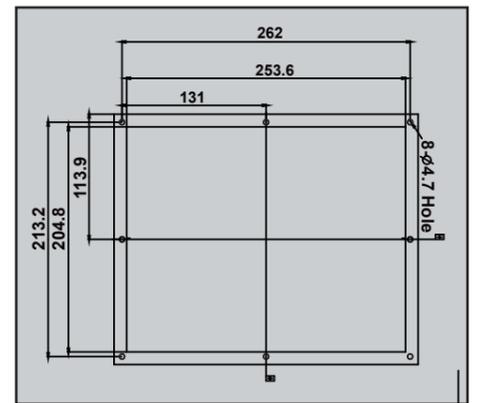# System Overview

(Unit: mm)

Front View

277.6 (SP-6150)
408 (SP-6155)
228.8 (SP-6150)
308 (SP-6155)

PROX

Rear View (SP-6150)

88.8 100
45.2
100
100

Rear View (SP-6155)

C.L.100(VESA)
94.7
100(VESA)
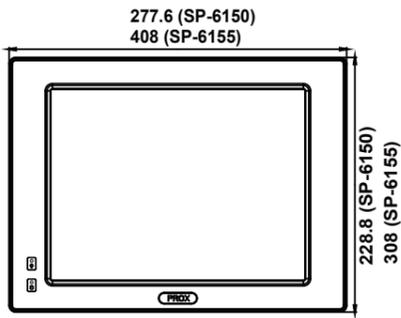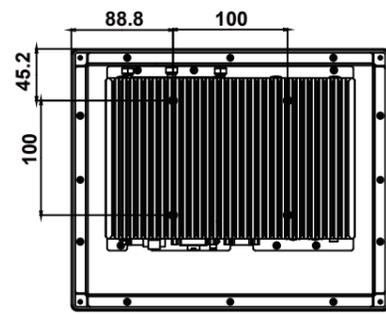
Wall Mount Cut-out Dimensions
SP-6150

262
253.6
131
113.9
Ø4.7 Hole - 8X
213.2
204.8

Wall

SP-6155

385.5
375
130
Ø4.7 Hole - 12X
285.5
272
98

Wall

Left Side View

SP-6150 SP-6155

Right Side View

SP-6150 SP-6155

78
10 12.4
140.6
202.8
31

93
10 46
10.2
230
268
20

Rear I/O View

DC IN 9~36V DVI-D HDMI USB Connector LAN2 LAN1
Power Button
COM Connector
Line Out
Mic In
I²C Remote Switch COM Connector

Top View
SP-6150

217.5
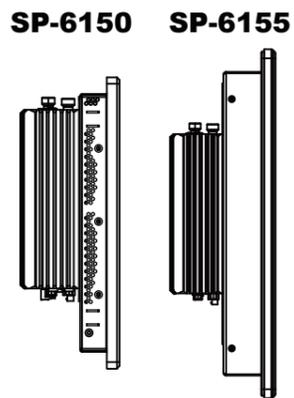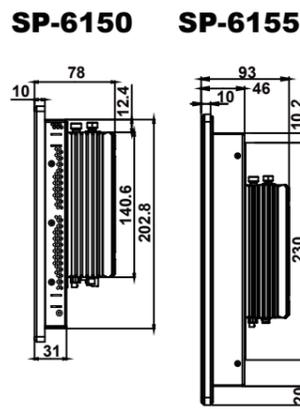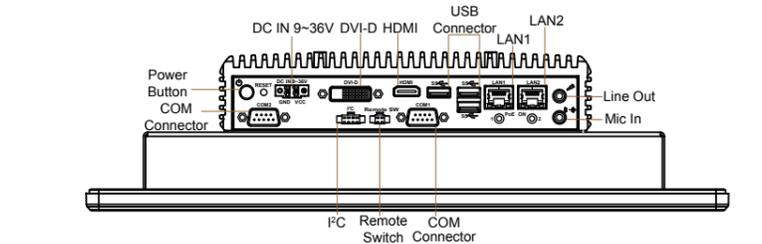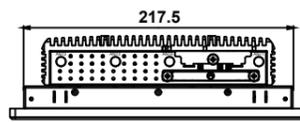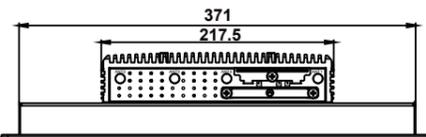
SP-6155

371
217.5
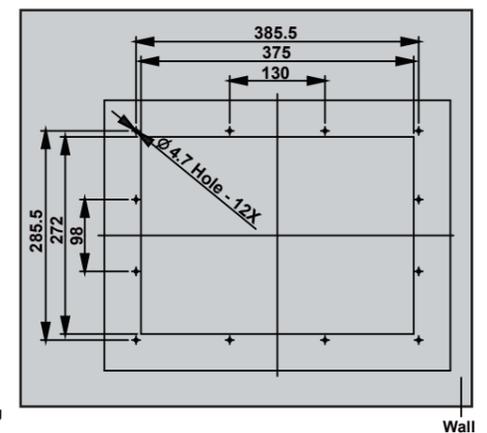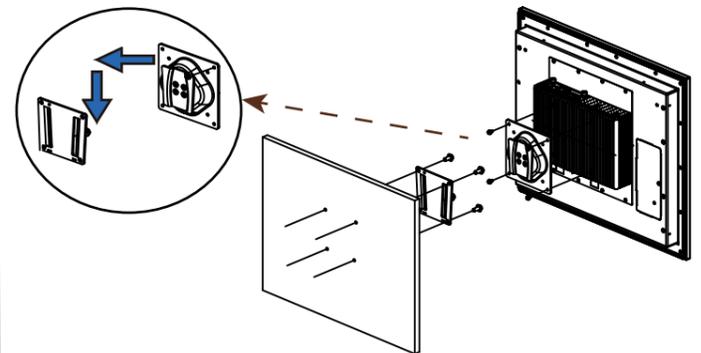

Quick Setup

Installing Panel Mount

Tighten the screws into the 12 mounting holes of the wall fixture as shown to mount Panel PC onto the wall securely. The panel mount installation is applicable for both SP-6150 and SP-6155 Panel PCs.
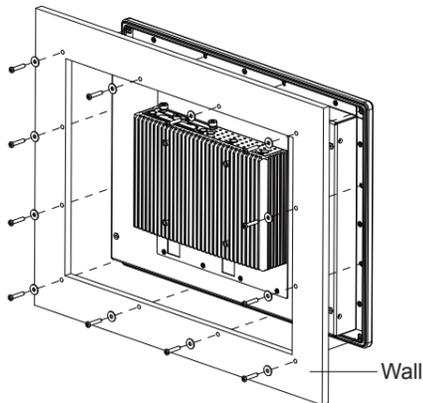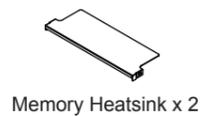
Wall

Installing Memory Heatsink

Step 1. Attach the adhesive tapes on both sides of the memory module.

Memory module
Adhesive tape
click
Step 2. Put the click on to secure.
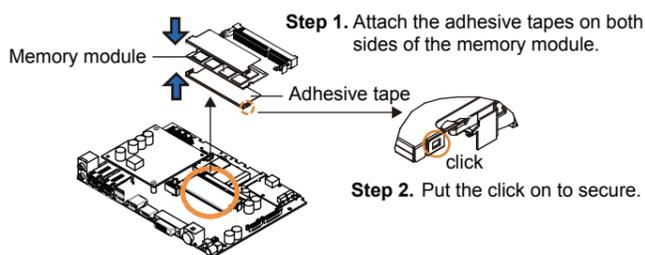
Installing VESA Mount

Memory Accessories

Memory Heatsink

Memory Heatsink x 2

VESA Mount Accessories

VESA Mount

VESA Mount Kit x 1

Installing Hooks
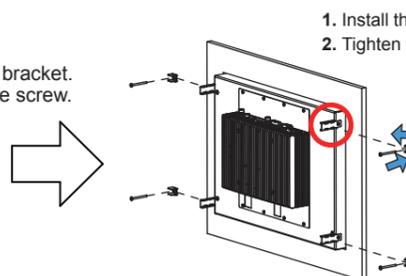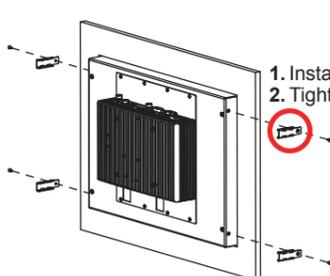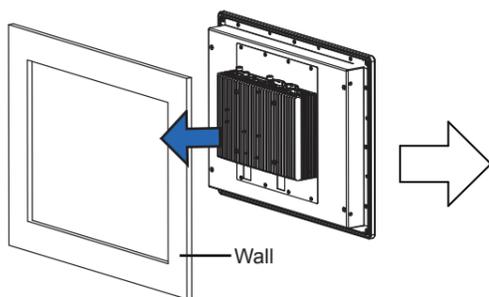
SP-6150 / SP-6155

Step 1. Mount the SP-6150 / SP-6155 Panel PC onto the wall fixture when the mounting holes are not available on your wall.
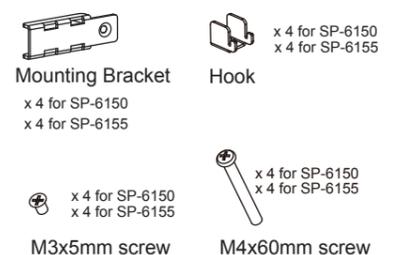
Wall

SP-6150 / SP-6155

Step 2. Install the brackets into the mounting holes on the left and right sides of SP-6150 / SP-6155 using 4 pieces of M3x5mm screws.

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

SP-6150 / SP-6155

Step 3. Install 4 hooks onto the mounting brackets on the left and right sides of Panel PC and fasten the mating screws to secure firmly. The SP-6150 / SP-6155 hook installation is completed.

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

Hook Accessories (option)

Mounting Bracket
x 4 for SP-6150
x 4 for SP-6155

Hook
x 4 for SP-6150
x 4 for SP-6155

M3x5mm screw
x 4 for SP-6150
x 4 for SP-6155

M4x60mm screw
x 4 for SP-6150
x 4 for SP-6155

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-6150 / SP-6155 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-6150 / SP-6155 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-6150 / SP-6155 in strong vigrations 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 not turn the system upside down. This may cuase 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.