PROX
PROTECH Group

SP-S214

Quick Reference Guide
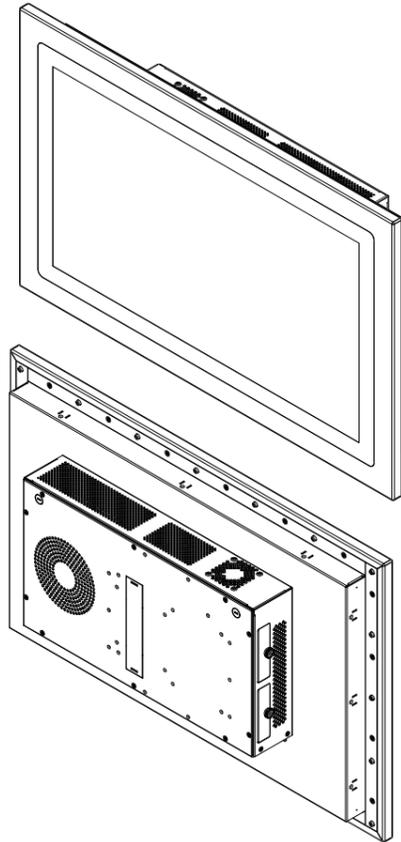
Ver. Q3

Specification

System

CPU Support	Core™ i7-7700, Quad Core, 2.9GHz, 8M cache
	Core™ i5-7500T, Quad Core, 2.7GHz, 6M cache
	Core™ i3-7101TE, Dual Core, 3.4GHz, 3M cache
	Celeron® G3930TE, Dual Core, 2.7GHz, 2M cache
Chipset	Intel® Q170/H110
Memory Support	2 x DDR4 2133MHz SO-DIMM sockets (up to 32GB)
Storage	2 x 2.5" SATA III HDD/SSD (support RAID 0/1 in Q170 SKU only)
Power Input	AC input ATX 250W
Operating System	Windows 10 IoT Enterprise (64bit)
Dimensions (W x H x D)	585 x 377 x 107.15mm
System Weight	11.8kg
Mounting Support	Wall mount / VESA75,100 / Panel mount
Certifications	FCC / CE

I/O Ports

Display	2 x DVI-D
USB	4 x USB 3.0 / 4 x USB 2.0
Audio	1 x Line In / 1 x Line Out / 1 x Mic In
LAN	2 x RJ45 ports
	LAN1: Intel® PHYI 219LM (10/100/1000 Mbps)
	LAN2: Intel® LAN 210AT (10/100/1000 Mbps)
	Support Wake-on-Lan, PXE
Serial Ports	4 COM ports / COM1 for RS-232/422/485
	COM2/COM3/COM4 for RS-232
	COM1/COM2/COM4 support +5V / +12V / RI selectable
Expansion Slots	1 x PCIe (x16) / 1x half-sized Mini PCIe
Power On/Off	1 x power button switch
	1 x 2-pin connector for remote power button
Parallel Port	1 x Parallel Port (SPP/EPP/ECP)
Antenna Hole	2 x antenna holes

Display

LCD	21.5" TFT LCD(LED) resolution FHD (16:9) 1920x1080
Touchscreen	21.5" P-CAP touch panel

Environment

Operating Temp.	HDD: 0°C~45°C (32°F~113°F) / SSD: 0°C~50°C (32°F~122°F)
Storage Temp.	-20°C~80°C(-4°F~176°F)
Humidity	20%~90% (no condensation)

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.

SPI Override Protection Selection
Enable (default) / Disable

LAN2 Enable/Disable Selection
Disable / Enable (default)

COM2 Pin9 Voltage Selection
RI (default) / 5V / 12V

COM1 Pin9 Voltage Selection
RI (default) / 5V / 12V

COM1 RS-232/422/485 Selection
RS232 (default) / RS422 / RS485

JP5 BIOS Recovery Mode Selection
Configure / Normal (default) / Recovery

COM1 RS-485 Auto Flow Control Selection
Disable / Enable (default)

JCMOS1 Clear CMOS Data Selection
Normal (default) / Clear CMOS

COM4 Pin9 Voltage Selection
RI (default) / 5V / 12V

JP4 Intruder Detect Selection
Disable / Enable (default)

AT/ATX Mode Selection
ATX (default) / AT

JRTC1 Clear RTC Data Selection
Normal (default) / Clear RTC Data

VCCIO Voltage Selection
0.95V (default) / 1.0V

AT/ATX Mode Selection
ATX (default) / AT

System Overview

(Unit: mm)

Front View

4-R2
585
377

Rear View

100(VESA)
55
75(VESA)
42.5
133.5
146
100(VESA)
75(VESA)

Rear I/O View

Remote Switch
COM2   LAN1   Line In   COM3
USB 2.0   LAN2   COM4
COM1   USB3.0   Line Out   LPT   Power Button
DVI-D   Mic In
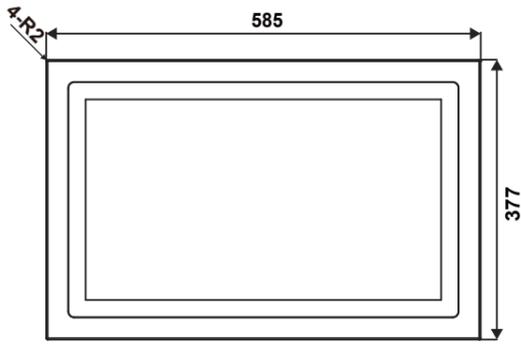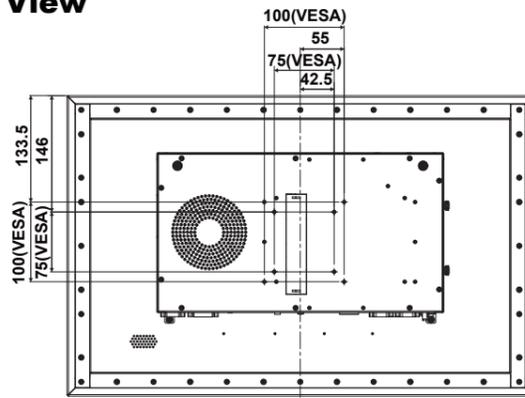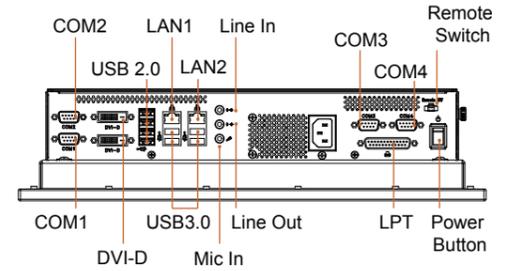
Left Side View

Right Side View

107.15
44.6
14.8
42.90
200.85
319.80
28.60

Top View

527.80
360
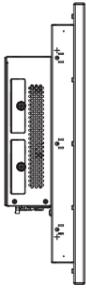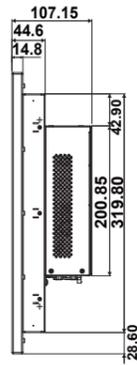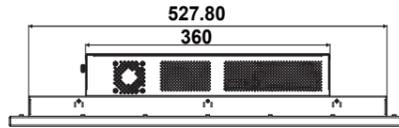
Bottom View
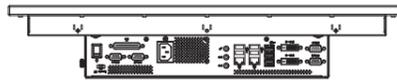
Wall Mount Cut-out Dimensions

549.2
532
368
184
341.2
324
171.2
4-R3
20-Ø3.5
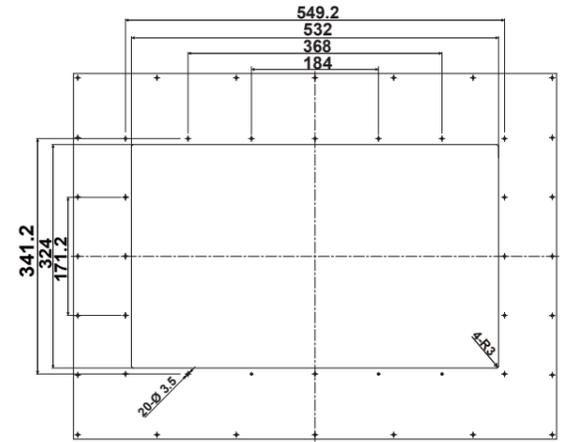
Quick Setup

Installing VESA Mount (optional)
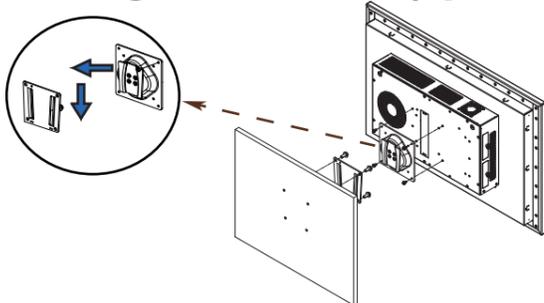
VESA Mount Accessories (optional)

VESA Mount (optional)   **VESA Mount Screw**

x 1
VESA Mount Kit

x 4
M6x15mm screw
(Round Head with
spring washer screw)

x 4
M4x10mm screw

HDD Easy Maintenance

Step 1. Release the screw of the HDD / SSD tray.

Step 2. Pull out the HDD / SSD tray.

Step 3. Place the HDD / SSD and fasten the four screws.

Step 5. Fasten the screw of the HDD / SSD tray.

Step 4. Push back HDD / SSD tray.
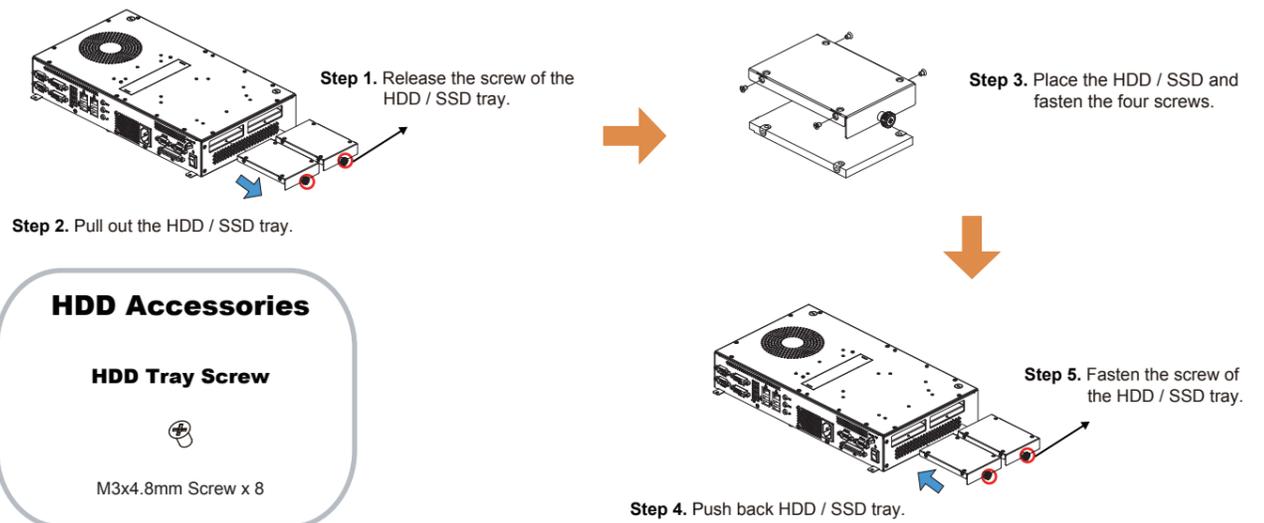
HDD Accessories

HDD Tray Screw

M3x4.8mm Screw x 8

## Installing Hooks (optional)

Step 1. Install the mounting brackets into the mounting holes on the four sides of SP-S214 using 12 screws (M3x5mm).
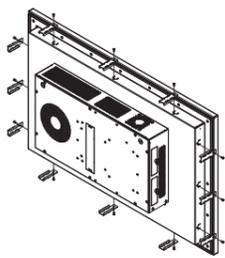
**Step 2.** Mount SP-S214 Panel PC equipped with 12 brackets onto the wall firmly.

Wall
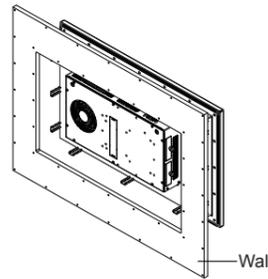
Step 3. Install 12 hooks onto the mounting brackets on the four sides of Panel PC and fasten the mating screws to secure firmly.
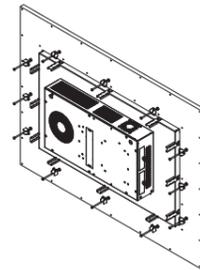
Hook Accessories (optional)

x 12
Mounting Bracket

x 12
M3x5mm screw

x 12
M4 Nut

x 12
M4x35mm screw

x 12
Hook

Installing Wall Oring (optional)

Step 1. Place the Wall O-ring into the back of the front bezel.

Wall O-ring

Wall

Step 2. Fasten the 20 screws.
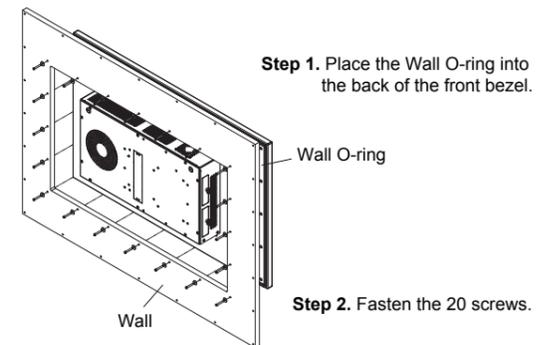
Wall Oring Accessories (optional)

M3x 28mm screw x 20

Washer x 20

Safety Precaution

The following messages are reminders for safety on how to protect your panel PC from damages and extend the life cycle of SP-S214.

1. Check the Cable Voltage
• The range of operating voltage should be AC input ATX 250W. Otherwise, the panel PC could be damaged.

2. Environmental Conditions
• Place your SP-S214 on a sturdy, level surface. Be sure to allow enough space to have easy access around the device.
• Avoid extremely hot or cold place to install SP-S214.
• Avoid exposure to sunlight for a long period of time or in an airtight space.
• Avoid the device from any heating device or using SP-S214 when it's been left outdoors in a cold winter day.
• Avoid moving SP-S214 rapidly from a hot place to a cold place and vice versa because condensation may come from inside of the device.
• Don't place SP-S214 close to any radio-active device in case of signal interference.

3. Handling
• Avoid putting heavy objects on top of the device.
• 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 device.
• 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 vacuum cleaner for computers.
• The power cord with the plug shall be connected to a socket-outlet with earthing connections.

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 SP-S214 may have high electrical voltage. And therefore we strongly recommend that qualified engineers can open and disassemble the device. Please handle LCD and Touchscreen with extra care as they are easily breakable.