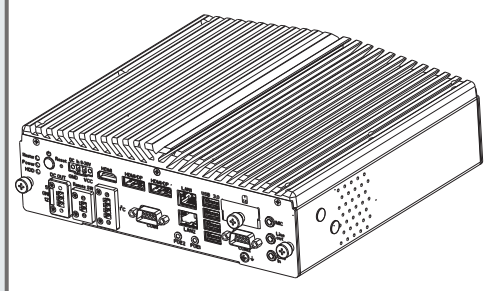
PROTECH Group

SE-N207

Quick Reference Guide



Ver. Q1

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Specification

System

CPU Type	Intel Core™ i7-8665UE / i5-8365UE / i3-8145UE Intel Celeron 4305UE (2C) 2.0GHz
Memory Support	2 x DDR4 SO-DIMM socket, memory up to 32GB
Operating System	Windows® 10 IoT Enterprise LTSC 2019 64bit / Ubuntu18.04 LTS
WatchDog Timer	1~255 seconds
Drive Bay	1 x 2.5” SATAIII HDD or SSD drive space 1 x M.2 PCIe or SATAIII drive space
Power Input	DC In 9~36V
Power Output	DC 5V / 12V / GND
Expansion Slots	1 x full-sized mini PCIe (PCIe+USB2.0) 1x M.2 slot (2242-D2-E) (USB2.0 only for core i) 1x M.2 slot (2242-D2-B) 1 x SD slot (SD / SDHC / SDXC)
Wall Mount	Wall mount / Din-Rail
System Weight	3kg
Dimensions (W x H x D)	228.00 x 71.27 x 212.09mm
Certifications	CE / FCC

I/O Ports

USB	4 x USB3.1(Gen2)
Serial Ports	6 x COM 1/2/3/4 for RS232/422/485 (selectable under BIOS) [COM 1/2 for +5v / +12v / RI selectable by jumper] (optional)
LAN	2 x RJ45 connector with PSE + 2 x RJ45 connector with PSE / PD, support Wake On LAN / PXE (optional) #PSE / PD: IEEE 802.3 AT 54V / 25.5W (each port) (optional)
LED	1 x Power on indication (yellow) / 1 x HDD (green) 1 x negative temp indication (red) 2 x PoE power indicators. (red)
Antenna Hole	4 x antenna holes
Audio	1 x Line Out / 1 x MIC In / 1 x Line In
Display	1 x 4K HDMI (limitation: no sound signal, no hot plug) 2 x 4K HDMI/DP (selectable under BIOS)

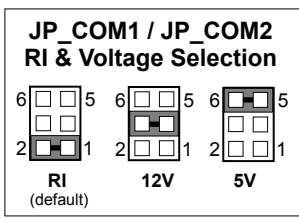
Environment

Operating Temperature (with airflow)	Non wide-ranged temp. SSD: 0°C ~50°C (32°F ~ 122°F) With wide-ranged temp. SSD 0° ~ 70° C (32°F ~ 158°F) (without PoE) -40° ~ 70° C (-40°F ~ 158°F) (with heater, without PoE)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Humidity	Operating Humidity: 20%~ 90% Storage Humidity: 20%~ 95%

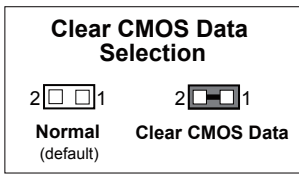
Jumper Setting

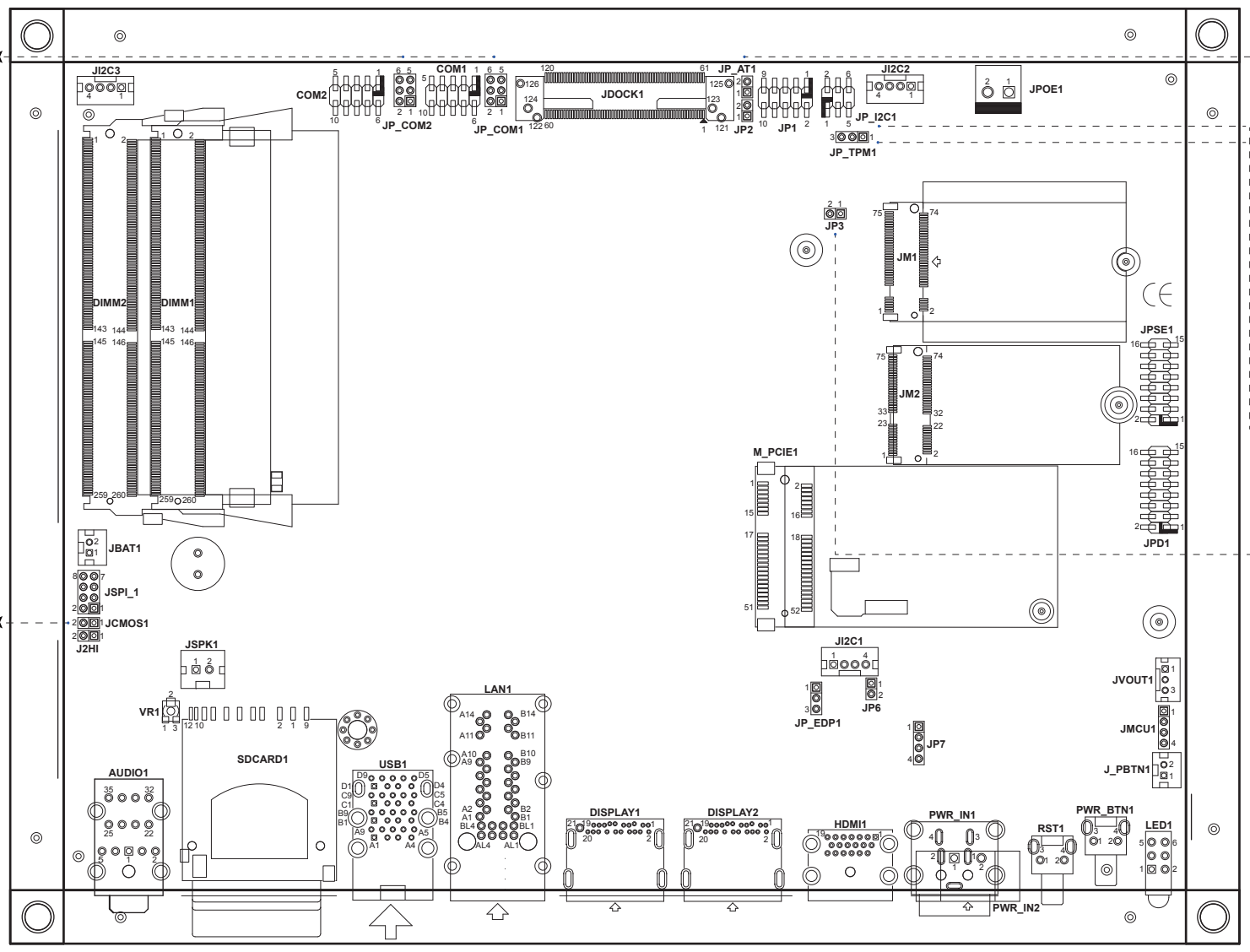
CAUTION! Danger of explosion may occur if the battery is replaced incorrectly. Replace batteries only with the same or equivalent type recommended by the manufacturer. Dispose the used batteries according to the manufacturer’s instructions.

JP_COM1 / JP_COM2 RI & Voltage Selection

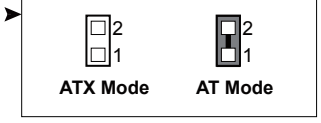


Clear CMOS Data Selection

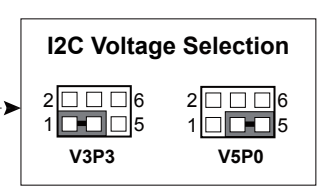




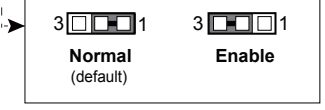
AT Mode Selection



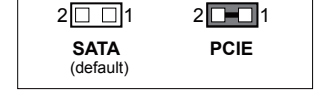
I2C Voltage Selection



TPM Module Selection



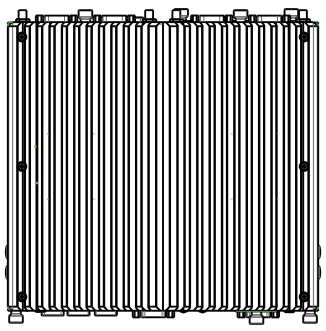
M.2 B KEY For SATA / PCIE Selection



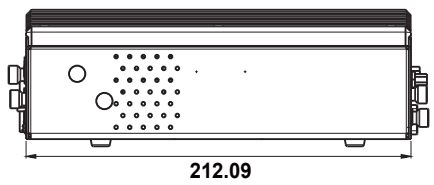
System Overview

(Unit: mm)

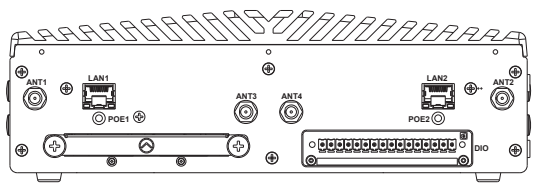
Top View



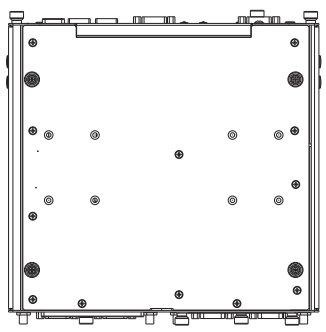
Right Side View



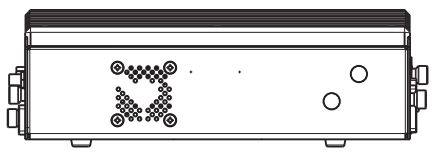
Front - PoE LAN



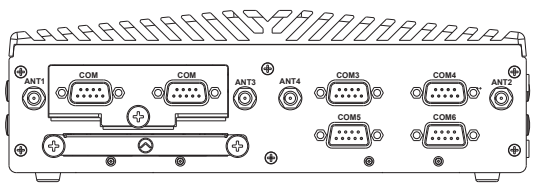
Bottom View



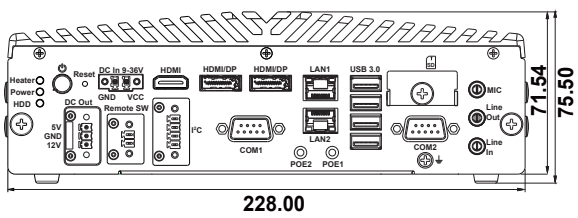
Left Side View



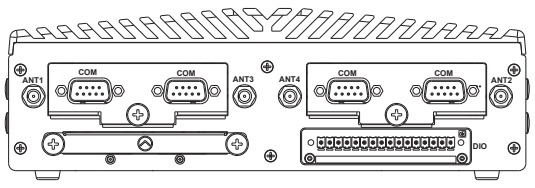
Front - COM



Rear I/O View



Front - I/O Expansion

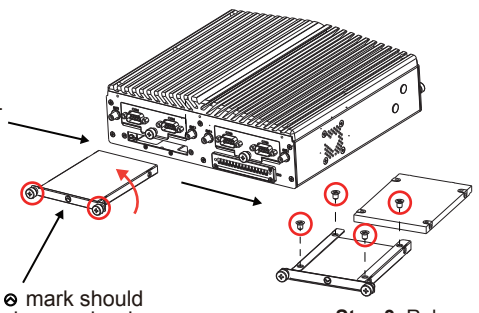


Quick Setup

HDD Easy Maintenance

Step 1. Release the two screws of HDD tray.

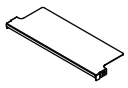
Step 2. Pull out HDD tray.



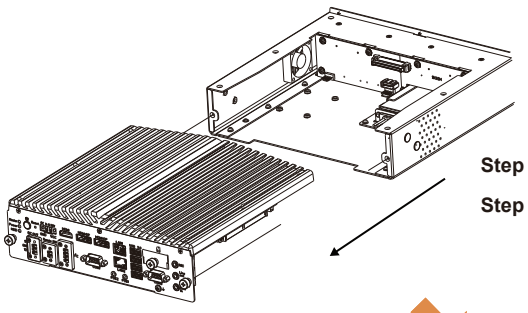
Heed the ⊗ mark should be directed upwards when you push back HDD tray.

Step 3. Release the four screws of HDD tray.

HDD & Memory Accessories

HDD Tray Screw	Memory Heatsink
	
M3 x 5 mm Screw x 4	Memory Heatsink x 2

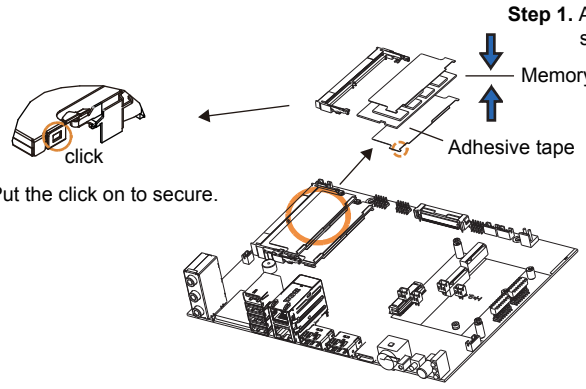
Installing Memory and Extension Module



Step 1. Release the two screws of front plate.

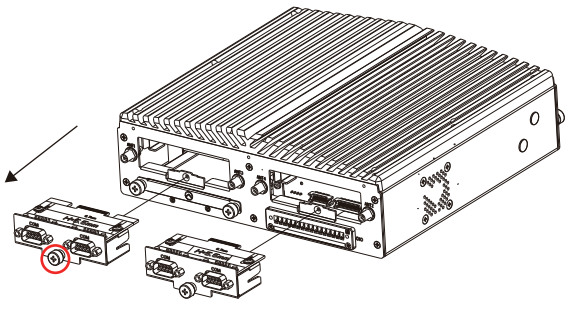
Step 2. Pull out the Main board.

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



Step 2. Put the click on to secure.

Installing I/O Expansion Board



Step 1. Release the screw of I/O board.

Step 2. Pull out the I/O board.

Optional I/O Expansion Port

=> Lan Board

=> COM Board

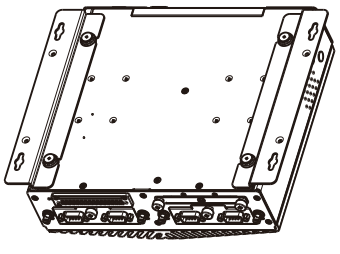
=> USB Board

=> Parallel Port Board

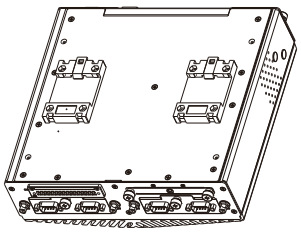
=> CANBus Board

Installing Accessories

Wall Mount



Din-rail



Safety Precaution

The following messages are reminders for safety on how to protect your LCD monitor from damages and extend the life cycle of SE-N207.

1. Check the Cable Voltage

- The range of operating voltage should be DC 5V / 12V / GND. Otherwise, the LCD monitor could be damaged.

2. Environmental Conditions

- Place your SE-N207 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 SE-N207.
- Avoid exposure to sunlight for a long period of time or in an airtight space.
- Avoid the device from any heating device or using SE-N207 when it's been left outdoors in a cold winter day.
- Avoid moving SE-N207 rapidly from a hot place to a cold place and vice versa because condensation may come from inside of the device.
- Don't place SE-N207 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.

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.