

# SE-N207

Intel® 8th Gen. Core™ i7 / i5 / i3 / Celeron® Processor  
Compact and Fanless Embedded PC

NEW



## Features



- Intel® 8th Gen. Core™ i7 / i5 / i3 and Celeron mobile processor
- Storage and Main Board easy maintenance design
- Three independent displays (1 x HDMI + 2 x HDMI/DP up to 4K)
- Multiple I/O board  
(LAN / USB / COM / CANBus / LPT) (Optional)
- PoE function (Support PD / PSE) (Optional)
- Expansion slot (full-sized Mini PCIe / SD slot / M.2)
- Support 4 x antenna holes
- Support power remote switch
- Wide-ranged voltage DC In (9~36V)
- Wide-ranged temperature (Optional)
- TPM module (Optional)

## Specifications



### System

|                  |                                                                                                                                                                                                                                                             |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU Support      | Intel® Core™ i7-8665UE (4C) 1.70GHz<br>Intel® Core™ i5-8365UE (4C) 1.60GHz<br>Intel® Core™ i3-8145UE (2C) 2.2GHz<br>Intel® Celeron® 4305UE (2C) 2.0GHz                                                                                                      |
| Memory Support   | 2 x DDR4 2400 SO-DIMM socket (memory up to 32GB)                                                                                                                                                                                                            |
| API              | Watchdog / HW monitor / Digit I/O / I°C                                                                                                                                                                                                                     |
| Watchdog Timer   | 1~255 seconds                                                                                                                                                                                                                                               |
| Drive Bay        | 1 x 2.5" SATAIII HDD or SSD drive space<br>1 x M.2 PCIe or SATAIII drive space                                                                                                                                                                              |
| Power Input      | Terminal block 9~36V (for PSE SKU)<br>PoE LAN 54V (for PD SKU)                                                                                                                                                                                              |
| Operating System | Windows® 10 IoT Enterprise LTSC 2019 64bit<br>Ubuntu 18.04 LTS                                                                                                                                                                                              |
| Expansion Slots  | 1 x full-sized Mini PCIe (PCIe+USB 2.0)<br>1 x M.2 slot (2242-D2-E), PCIe/USB2.0 support<br>(USB 2.0 only for Core™ i)<br>1 x M.2 slot (2242-D2-B), PCIe/SATA support<br>1 x SD slot (SD/SDHC/SDXC)<br>2 x I/O expansion slot<br>TPM 2.0 (FW/HW) (optional) |
| Mounting         | Wall mount<br>DIN-Rail                                                                                                                                                                                                                                      |
| System Weight    | 3 kg                                                                                                                                                                                                                                                        |
| Dimensions       | 228.00 x 71.27 x 212.09 mm (W x H x D)                                                                                                                                                                                                                      |
| Certifications   | CE / FCC                                                                                                                                                                                                                                                    |

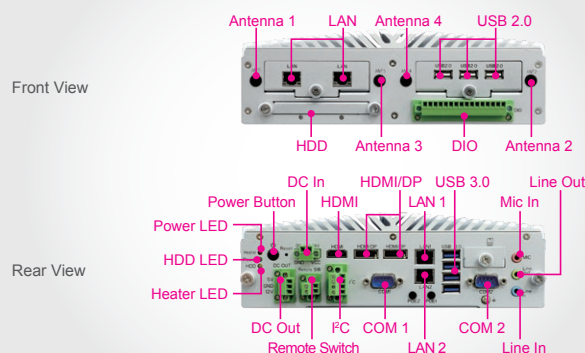
### I/O Ports

|                     |                                                                                                                                                                                       |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| USB                 | 4 x USB 3.1 (Gen2)                                                                                                                                                                    |
| Display             | 1 x 4K HDMI limitation: no sound signal, no hot plug<br>2 x 4K HDMI/DP (selectable under BIOS)                                                                                        |
| Serial Ports        | 2 x COM 1/2 for RS-232/422/485 (selectable under BIOS)<br>[COM 1/2 for +5V/+12V/RI selectable by jumper] #1                                                                           |
| LAN                 | 2 x RJ45 connector with PSE/PD, support Wake-On-LAN/PXE<br># PSE: Output IEEE 802.3 AT 54V/25.5W (each port) (optional)<br># PD: Input IEEE 802.3 AT 54V/25.5W (each port) (optional) |
| LED                 | 1 x Power On indicator (yellow)<br>1 x HDD LED indicator (green)<br>1 x negative temperature indicator (red)<br>2 x PoE power indicators (red)                                        |
| Antenna Holes       | 4 x antenna holes                                                                                                                                                                     |
| Drive Bay #2        | 1 x 2.5" SATAIII HDD or SSD drive space<br>1 x M.2 PCIe or SATAIII drive space                                                                                                        |
| Digital I/O         | 8 in / 8 out (optional) #1                                                                                                                                                            |
| I°C                 | 1 x 4 pin terminal block (optional) #1                                                                                                                                                |
| DC Out              | 1 x 3 pin terminal block (DC 5V/12V/GND) (optional) #1                                                                                                                                |
| Power Remote Switch | 1 x 2 pin terminal block (optional)                                                                                                                                                   |
| Audio               | 1 x Line Out / 1 x Mic In / 1 x Line In                                                                                                                                               |
| Ground              | 1 x M3 hole                                                                                                                                                                           |

#1 Only support for PSE SKU. #2 Only support one drive bay for PD SKU.

\* All information contained in this document is subject to change without prior notice. Please log on [www.protech.com.tw](http://www.protech.com.tw) to acquire latest information. For detail mechanics drawing, please contact our sales.

### System Front View & Rear View



### Optional I/O Expansion Ports

|               |                                                         |
|---------------|---------------------------------------------------------|
| LAN           | 2 x RJ45 connector, support Wake-On-LAN/PXE             |
| COM           | 2 x COM port for RS-232/422/485 (selectable under BIOS) |
| USB           | 3 x USB 2.0                                             |
| Parallel Port | 2 x DSUB 26 pin connector                               |
| CANBus        | 2 x DSUB 9 pin connector                                |

### Environment

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Temp.<br>(Ambient with airflow) | Non-wide-ranged temperature HDD/SSD:<br>HDD: 0°C~40°C (32°F~113°F)<br>SSD: 0°C~50°C (32°F~122°F)<br>With wide-ranged temperature SSD:<br>0°C~60°C (32°F~140°F) @humidity 20~95%<br>(w/o heater, w/ PoE)<br>0°C~70°C (32°F~158°F) @humidity 20~95%<br>(w/o heater, PoE)<br>-40°C~60°C (-40°F~140°F) @humidity 20~95%<br>(w/ heater, PoE) (optional)<br>-40°C~70°C (-40°F~158°F) @humidity 20~95%<br>(w/ heater, w/o PoE) (optional) |
| Storage Temp.                             | -40°C~85°C (-40°F~185°F)                                                                                                                                                                                                                                                                                                                                                                                                           |
| Humidity                                  | Operating humidity: 20%~90%<br>Storage humidity: 20%~95%                                                                                                                                                                                                                                                                                                                                                                           |

### Applications

- Automation
- Retail
- Banking
- Information
- Medical