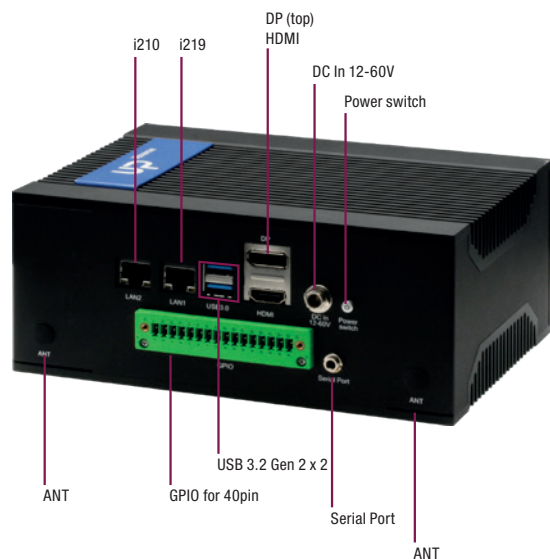
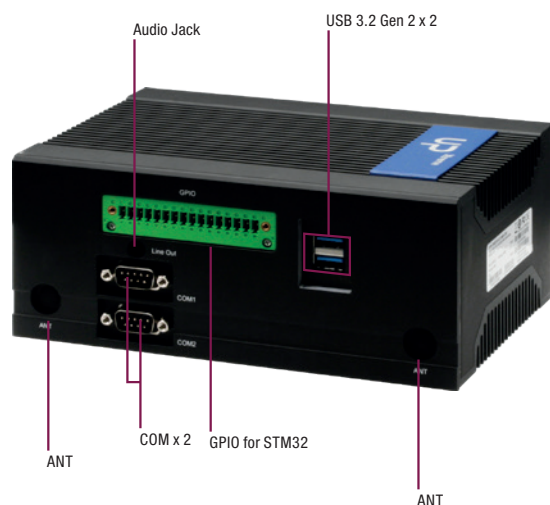


Front View



Rear View



## Features

- Intel® WHL-U Core™ i7/i5/i3/Celeron Processor SoC
- Onboard DDR4 memory, Max 16GB
- eMMC 64GB
- HDMI 2.0 x 1 (Support 4K at 60 Hz)
- COM ports (RS-232/422/485) x 2
- 16pin GPIO connectors (1 x GPIO for STM32, 1 x GPIO for 40pin HAT)
- Audio Jack x 1 (line out + Mic)
- 12-60V DC-in
- Fanless Chassis design

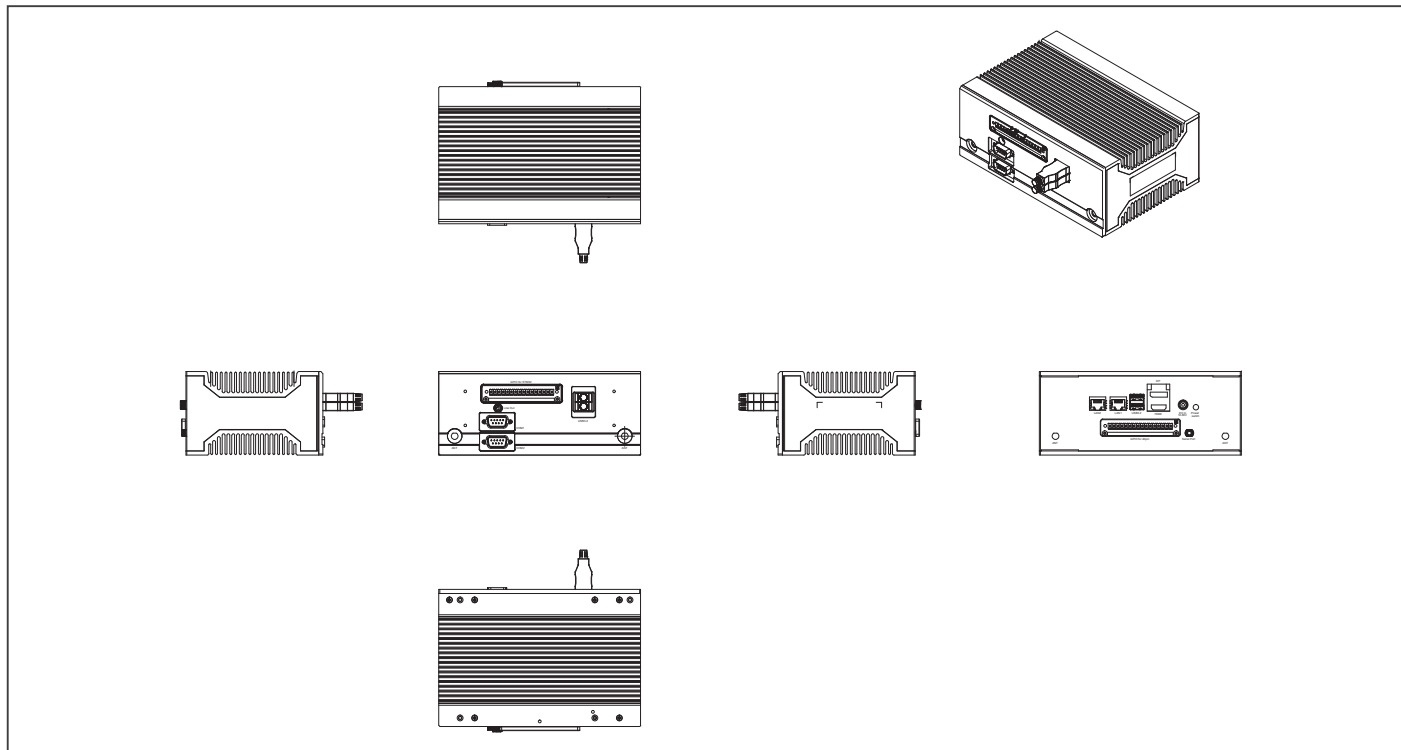


## Specifications

| System                |                                                                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU                   | 8th generation Intel® Core™ i7/i5/i3/Celeron Processor SoC                                                                                                       |
| Memory                | Onboard DDR4 memory, Max 16GB<br>Single Channel: 4GB<br>Dual Channel: 8GB, 16GB                                                                                  |
| Graphics              | Intel® Graphics, GEN 9                                                                                                                                           |
| Storage               | eMMC 64GB                                                                                                                                                        |
| Ethernet              | i7/i5 SKU LAN (i210 AT) x 1, LAN (i219 LM) x 1<br>i3/Celeron® LAN (i210 AT) x 1, LAN (i219 V) x 1                                                                |
| WIFI/BT               | Optional                                                                                                                                                         |
| Audio                 | Line out + MIC x 1                                                                                                                                               |
| USB                   | USB 3.2 Gen 2 x 4                                                                                                                                                |
| Expansion Slot        | M.2 2230 E Key x 1<br>M.2 2280 M/B+M Key x 1<br>mPCIe slot x 1<br>100pin connector x 1<br>40 pin HAT x 1<br>SATA3 connector x 1 (support 2.5" HDD/SSD expansion) |
| I/O Placements        |                                                                                                                                                                  |
| Power                 | DC-in Jack x 1, Power Button x 1                                                                                                                                 |
| USB                   | USB 3.2 Gen 2 STACK Connector for 2 ports (Front) x 1<br>USB 3.2 Gen 2 STACK Connector for 2 ports (Rear) x 1                                                    |
| Display Port          | HDMI 2.0 x 1 (Support 4K at 60 Hz), DP 1.2 x 1, 16pin GPIO connectors (1 x GPIO for SMT32, 1 x GPIO for 40pin HAT)                                               |
| Ethernet              | RJ45 connector x 2                                                                                                                                               |
| COM                   | RS-232/422/485 x 2                                                                                                                                               |
| Environment           |                                                                                                                                                                  |
| Power                 | 12V - 60VDC                                                                                                                                                      |
| Form Factor           | 7.48" x 5.12" x 3.1" (190mm x 130mm x 78.6mm)                                                                                                                    |
| Gross Weight          | 6.61lbs (3kg)                                                                                                                                                    |
| Operating Temperature | eMMC: -32°F ~ 158°F (0°C ~ 70°C)<br>SATA: -4°F ~ 158°F (-20°C ~ 70°C)                                                                                            |
| Operating Humidity    | 0% ~ 90% relative humidity non-condensing                                                                                                                        |
| Certification         | CE/FCC Class A, RoHS Compliant, REACH                                                                                                                            |
| OS Support            | Win 10, Linux Ubuntu 18.04 with Kernel 5.0, Linux Yocto 2.7 with Kernel 4.19                                                                                     |

### Dimension

Unit: mm



### Ordering Information

| Part number              | CPU             | RAM  | Storage | LAN     | USB               | RS-232/422/485 | Power  | Operation Temp.             | Others                                            |
|--------------------------|-----------------|------|---------|---------|-------------------|----------------|--------|-----------------------------|---------------------------------------------------|
| UPX-EDGEI7-A10-1664-F01  | Core™ i7-8665UE | 16GB | 64GB    | GbE x 2 | USB 3.2 Gen 2 x 4 | 2              | 12-60V | -4°F ~ 158°F (-20°C ~ 70°C) | —                                                 |
| UPX-EDGEI5-A10-0864-F01  | Core™ i5-8365UE | 8GB  | 64GB    | GbE x 2 | USB 3.2 Gen 2 x 4 | 2              | 12-60V | -4°F ~ 158°F (-20°C ~ 70°C) | —                                                 |
| UPX-EDGEI3-A10-0864-F01  | Core™ i3-8145UE | 8GB  | 64GB    | GbE x 2 | USB 3.2 Gen 2 x 4 | 2              | 12-60V | -4°F ~ 158°F (-20°C ~ 70°C) | —                                                 |
| UPX-EDGEICR-A10-0464-F01 | Celeron® 4305UE | 4GB  | 64GB    | GbE x 2 | USB 3.2 Gen 2 x 4 | 2              | 12-60V | -4°F ~ 158°F (-20°C ~ 70°C) | —                                                 |
| UPX-EDGEI7C-A10-1664-F01 | Core™ i7-8565U  | 16GB | 64GB    | GbE x 2 | USB 3.2 Gen 2 x 4 | 2              | 12-60V | -4°F ~ 158°F (-20°C ~ 70°C) | —                                                 |
| UPX-EDGEI7-A10-1664-FX1  | Core™ i7-8665UE | 16GB | 64GB    | GbE x 2 | USB 3.2 Gen 2 x 4 | 2              | 12-60V | -4°F ~ 158°F (-20°C ~ 70°C) | With foundation kit image preload, AI Core X 2280 |
| UPX-EDGEI5-A10-0864-FX1  | Core™ i5-8365UE | 8GB  | 64GB    | GbE x 2 | USB 3.2 Gen 2 x 4 | 2              | 12-60V | -4°F ~ 158°F (-20°C ~ 70°C) | With foundation kit image preload, AI Core X 2280 |
| UPX-EDGEI3-A10-0864-FX1  | Core™ i3-8145UE | 8GB  | 64GB    | GbE x 2 | USB 3.2 Gen 2 x 4 | 2              | 12-60V | -4°F ~ 158°F (-20°C ~ 70°C) | With foundation kit image preload, AI Core X 2280 |
| UPX-EDGEICR-A10-0464-FX1 | Celeron® 4305UE | 4GB  | 64GB    | GbE x 2 | USB 3.2 Gen 2 x 4 | 2              | 12-60V | -4°F ~ 158°F (-20°C ~ 70°C) | With foundation kit image preload, AI Core X 2280 |

### Packing List

- VESA Kit
- DIN-RAIL Kit
- SATA cable
- Screw packs
- UPX-EDGE

### Optional Accessories

- **125530065A**  
19Vdc/3.42A.65W power adapter
- **1702031830**  
Power cord for USA
- **9741364A00**  
Wireless LAN Kit M.2 2230 802.11ac/a/b/g/n + BT4.0, 2T2R, with 2 sets of cable & antenna (Enli, QCNFA364A)
- **PER-TAIX2-A20-2280**  
AI Core XM 2280.N/A.M.2 2280 B+M key card. with Dual Myriad X
- **9741159H00**  
(TF)Wireless LAN kit.IEEE 802.11.b/g/n.w/ BT 4.0/3.0.(AzureWave.AW-NB159H).w/ cable.&antenna (mini card)
- **9741EC25E0**  
(TF)PCIe mimi card.4G LTE.module kit .for Europe.W/Cable & antenna.Quectel EC25-E