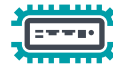


# ECX700-ADP

Intel Processor i5-1245UE or i7-1265UE  
Ruggedized Fanless Embedded System

## KEY FEATURES



### Ultra Rugged Design

IP67/ IP69K, comply with military criteria of vibration and shock test



### Wide Temperature

Operating temperature: -20° to 70° C



### Wide Voltage

Power range: 9~36V

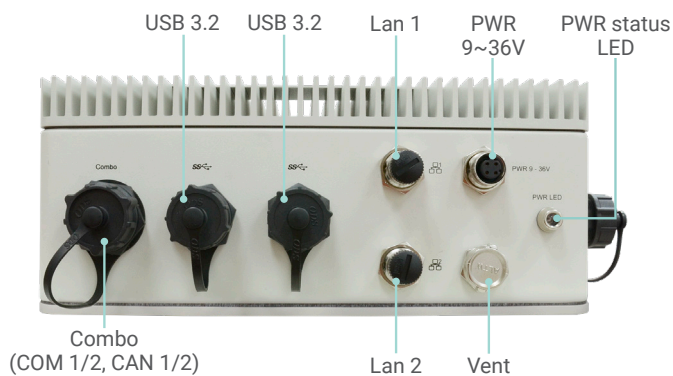


### Wireless

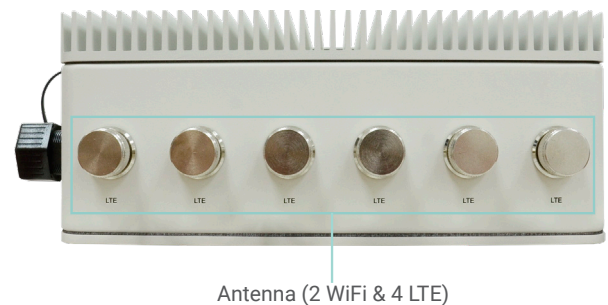
Optional WiFi, LTE



## PANEL



Bottom View



Top View

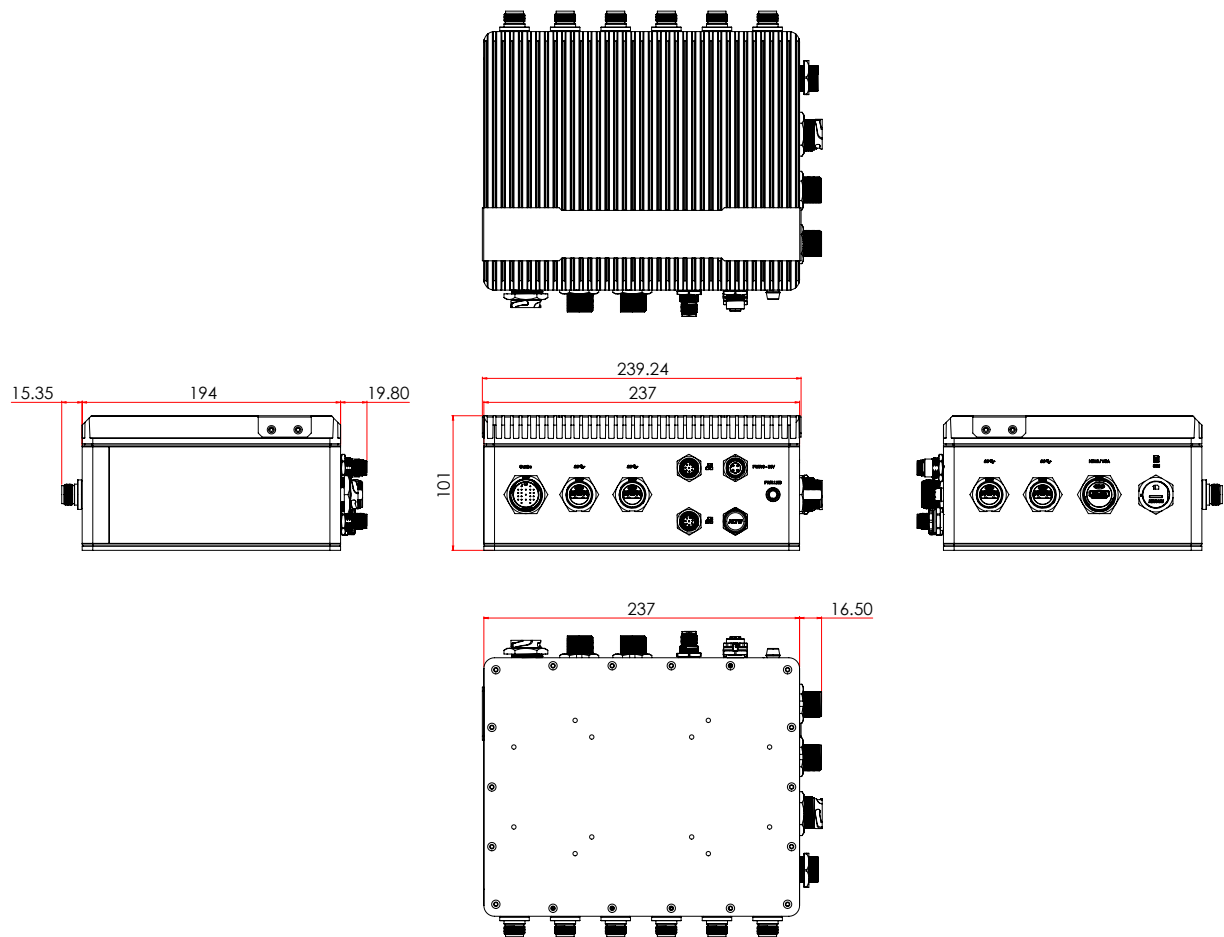


Right View



Left View

DIMENSIONS



## SPECIFICATION

|                              |                        |                                                                                                                                                                                                                |                                       |
|------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| SYSTEM                       | Processor              | 12th Gen Intel® Core™ Processors, BGA 1744 (Alder Lake-P, 15W)<br>Intel® Core™ i7-1265UE Processor, 10C12T, 12M Cache, 1.7GHz (4.7GHz)<br>Intel® Core™ i5-1245UE Processor, 10C12T, 12M Cache, 1.5GHz (4.4GHz) |                                       |
|                              | Memory                 | On board memory supports 8GB.(default)                                                                                                                                                                         |                                       |
|                              | BIOS                   | AMI SPI 256Mbit                                                                                                                                                                                                |                                       |
| GRAPHICS                     | Controller             | Intel® Iris® Xe Graphics eligible                                                                                                                                                                              |                                       |
|                              | Feature                | OpenGL 4.2, Direct X 11.1, OpenCL 1.2, OGL ES 3.0<br>HW Decode: H.264, MPEG2, VC1, VP8, H.265, MPEG4, MVC, VP9, WMV9, JPEG/MJPEG<br>HW Encode: H.264, MPEG4, VP8, H.265, MVC                                   |                                       |
|                              | Display                | 1 x HDMI                                                                                                                                                                                                       | HDMI: resolution up to 3840x2160@30Hz |
| STORAGE                      | M.2 SSD (M Key)        | 256GB Available(128GB/512GB by project support)                                                                                                                                                                |                                       |
| EXPANSION                    | Interface              | 1 x M.2 3042/3052 B key (PCIe x1 & USB3.0/2.0)(for LTE or 5G module)<br>1 x M.2 2230 E Key (PCIe x1 & USB2.0)(for Wi-Fi module)                                                                                |                                       |
|                              |                        |                                                                                                                                                                                                                |                                       |
| ETHERNET                     | Controller             | 2 x Intel® i225IT (10/100/1000Mbps)                                                                                                                                                                            |                                       |
| LED                          | Indicators             | 1 x Power Status LED                                                                                                                                                                                           |                                       |
| BOTTOM I/O                   | USB                    | 2 x USB 3.2                                                                                                                                                                                                    |                                       |
|                              | LAN                    | 2 x GbE                                                                                                                                                                                                        |                                       |
|                              | Combo                  | 2 x RS232 and 2 x Can bus protocol                                                                                                                                                                             |                                       |
|                              | Vent                   | 1 x Vent                                                                                                                                                                                                       |                                       |
|                              | Power                  | 1 x 9~36V DC-IN                                                                                                                                                                                                |                                       |
|                              |                        |                                                                                                                                                                                                                |                                       |
| TOP I/O                      | Antenna Hole           | 6 x Antenna (2 x WiFi, 4 x LTE)                                                                                                                                                                                |                                       |
| RIGHT SIDE I/O               | Display                | 1 x HDMI                                                                                                                                                                                                       |                                       |
|                              | SIM slot               | 1 x SIM card slot                                                                                                                                                                                              |                                       |
|                              | USB                    | 2 x USB 3.2                                                                                                                                                                                                    |                                       |
| WATCHDOG TIMER               | Output & Interval      | System Reset, Programmable via Software from 1 to 255 Seconds                                                                                                                                                  |                                       |
| POWER                        | Type                   | DC-in 9~36V                                                                                                                                                                                                    |                                       |
|                              | Connector              | M12 D-code                                                                                                                                                                                                     |                                       |
| OS SUPPORT                   | Microsoft              | Windows 10 IoT Enterprise 64-bit<br>Windows 11 IoT Enterprise LTSC 2024                                                                                                                                        |                                       |
|                              | Linux                  | Linux                                                                                                                                                                                                          |                                       |
| MECHANISM                    | Mounting               | Wall mount                                                                                                                                                                                                     |                                       |
|                              | Dimensions (W x H x D) | 239.24 x 194 x 101 mm                                                                                                                                                                                          |                                       |
|                              | Weight                 | TBD                                                                                                                                                                                                            |                                       |
| ENVIRONMENT                  | Operating Temperature  | -20 to 70°C                                                                                                                                                                                                    |                                       |
|                              | Storage Temperature    | -40 to 85°C                                                                                                                                                                                                    |                                       |
|                              | Relative Humidity      | 5 to 95% RH (non-condensing)                                                                                                                                                                                   |                                       |
| STANDARDS AND CERTIFICATIONS | Construction           | IP67/ IP69K enclosure                                                                                                                                                                                          |                                       |
|                              | Shock                  | Operation shock test: Half Sine Wave 15G, 11ms, 3 Shock Per Axis                                                                                                                                               |                                       |
|                              | Vibration              | Operation Vibration test: MIL-STD-810G 514.6C-2, Figure 514.6C-2                                                                                                                                               |                                       |
|                              | Certifications         | CE, FCC class A, ROHS                                                                                                                                                                                          |                                       |

ORDERING INFORMATION

| Model Name         | Part Number      | Processor | Memory down | Storage   | USB 3.2 | LAN | HDMI | 2xCOM+2CAN bus | WIFI+BT | LTE | External Cable list            |                            |                       |
|--------------------|------------------|-----------|-------------|-----------|---------|-----|------|----------------|---------|-----|--------------------------------|----------------------------|-----------------------|
|                    |                  |           |             |           |         |     |      |                |         |     | IP67 M12 4pin DC cable L=100mm | IP67 COM+CAN cable L=300mm | M12 Lan cable L=300mm |
| ECX700-ADP2040A-i5 | 750-ECX7001-000G | i5-1245UE | 8GB         | 256GB SSD | 4       | 2   | 1    | Y              | Y       | Y   | Y                              | Y                          | Y                     |
| ECX700-ADP2040A-i7 | 750-ECX7001-100G | i7-1265UE |             |           |         |     |      |                |         |     |                                |                            |                       |

OPTIONAL ITEMS

| Optional Items      | Part Number     | Description                       |
|---------------------|-----------------|-----------------------------------|
| External USB cable  | A81-001129-068G | IP67 USB Plug to USB Plug, 300mm  |
| External HDMI cable | A81-026004-068G | IP67 HDMI Plug to USB Plug, 300mm |

PACKING LIST

|                                        |
|----------------------------------------|
| · 1 ECX700-ADP system unit             |
| · 1 COMBO cable (for COM & CANBUS)     |
| · 2 LAN cable                          |
| · 2 Wi-Fi antenna                      |
| · 2 LTE antenna                        |
| · 6 Dust cover (for antenna connector) |
| · 1 DC input cable                     |