

# EB100-MTU

Intel Core Ultra Processor  
Fanless Embedded System



## KEY FEATURES



**Meteor Lake**  
Intel Core Ultra5/ Ultra7 Processor



**Dual Displays**  
1 or 2 USB-C DP Alt. mode



**One memory SODIMM**  
1 DDR5 SODIMM up to 32GB



**Small Size**  
111mm(W) x 106mm(D) x 50mm(H)



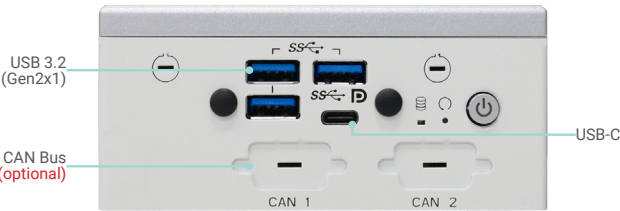
**Rich I/O**  
up to 2 LAN, 4 USB, 2 COM, 2 USB-C



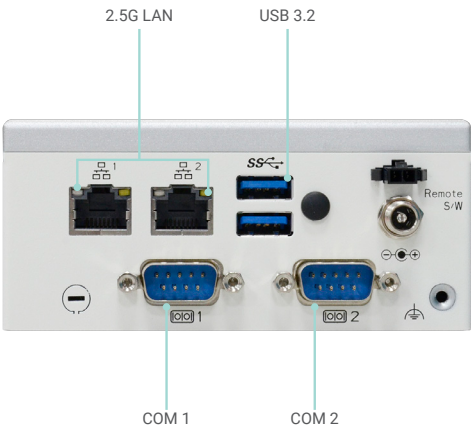
## PANEL



Front View  
(EB100-MTU2041)

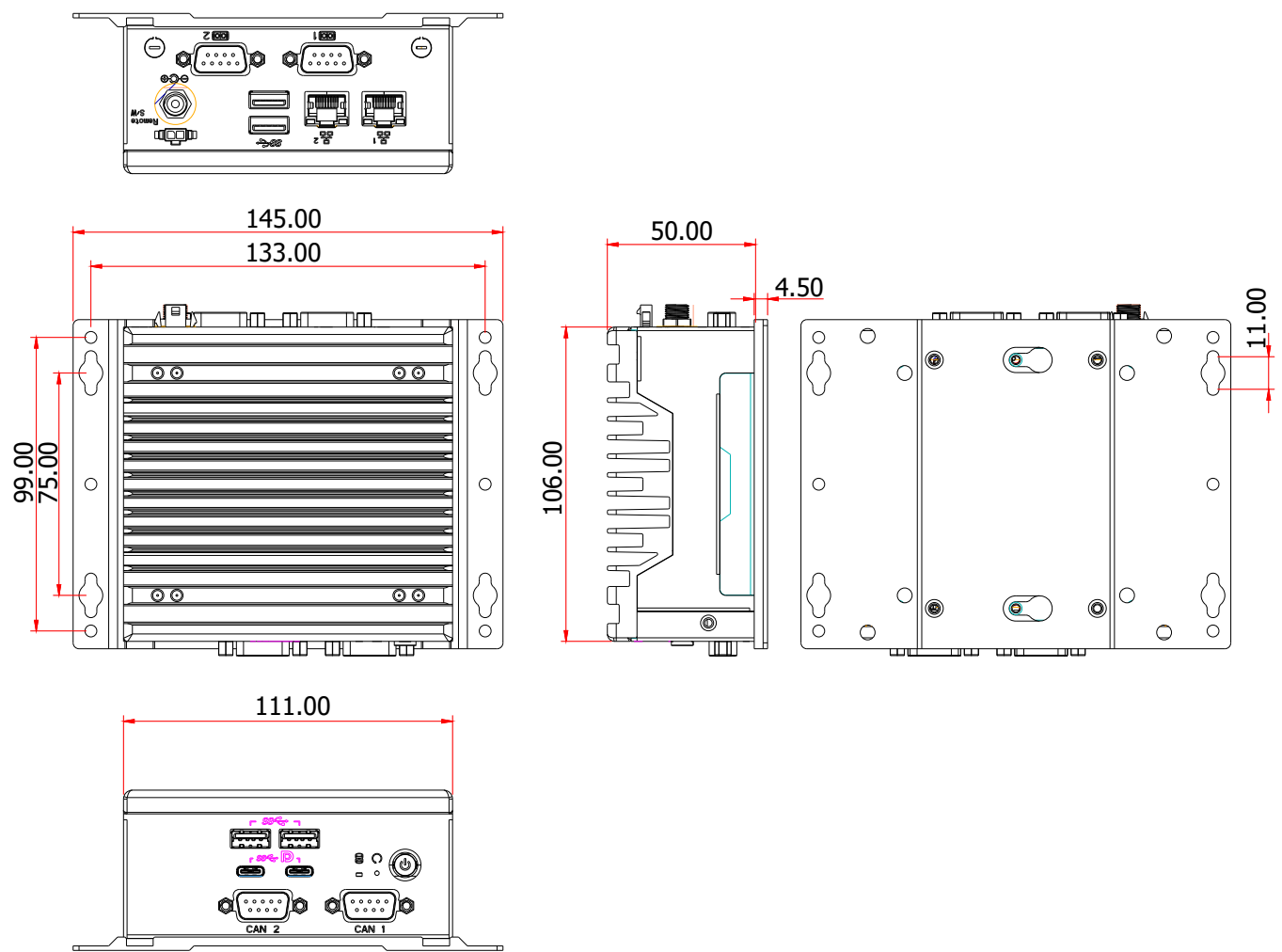


Front View  
(EB100-MTU2050)



Rear View

DIMENSIONS



## SPECIFICATION

|                              |                        |                                                                                                                                                                                                                                                           |                                                               |
|------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| SYSTEM                       | Processor              | Intel® Core™ Ultra Processor (Meteor Lake: U-series)<br>• for Fanless<br>Intel® Core™ Ultra 7 155U (2 P-Cores x 1.7 GHz, 8 E-Cores x 1.2 GHz, 12 MB cache, 12W)<br>Intel® Core™ Ultra 5 125U (2 P-Cores x 1.3 GHz, 8 E-Cores x 0.8 GHz, 12 MB cache, 12W) |                                                               |
|                              | Memory                 | 1 x 262-pin SODIMM up to 32GB<br>Single Channel DDR5 5600MHz                                                                                                                                                                                              |                                                               |
|                              | BIOS                   | AMI SPI 256Mbit                                                                                                                                                                                                                                           |                                                               |
| GRAPHICS                     | Controller             | Intel® Arc™ Graphics                                                                                                                                                                                                                                      |                                                               |
|                              | Display                | EB100-MTU2041                                                                                                                                                                                                                                             | EB100-MTU2050                                                 |
|                              |                        | 2 x USB-C DP Alt. mode<br>DP: resolution up to 4096x2304@60Hz                                                                                                                                                                                             | 1 x USB-C DP Alt. mode<br>DP: resolution up to 4096x2304@60Hz |
| STORAGE                      | Internal               | 1 x M.2 2280 M key (PCIe x4)                                                                                                                                                                                                                              |                                                               |
| EXPANSION                    | Interface              | 1 x M.2 2230 E Key (PCIe/USB2.0)                                                                                                                                                                                                                          |                                                               |
| ETHERNET                     | Controller             | 2 x Intel® I226IT                                                                                                                                                                                                                                         |                                                               |
| LED                          | Indicators             | 1 x Power LED<br>1 x Storage LED                                                                                                                                                                                                                          |                                                               |
| FRONT I/O                    | USB                    | EB100-MTU2041                                                                                                                                                                                                                                             | EB100-MTU2050                                                 |
|                              |                        | 2 x USB 3.2(Gen2x1)<br>2 x USB-C(support DP Alt. Mode)                                                                                                                                                                                                    | 3 x USB 3.2(Gen2x1)<br>1 x USB-C(support DP Alt. Mode)        |
|                              | Buttons                | 1 x Power button<br>1 x Reset button                                                                                                                                                                                                                      |                                                               |
|                              | CAN Bus (Optional)     | 2 x CAN Bus port (D-SUB9 connector)                                                                                                                                                                                                                       |                                                               |
| REAR I/O                     | Serial                 | 1 x RS232/422/485 (default RS232, BIOS selectable)<br>1 x RS232                                                                                                                                                                                           |                                                               |
|                              | USB                    | 2 x USB 3.2(Gen2x1)                                                                                                                                                                                                                                       |                                                               |
|                              | Ethernet               | 2 x Intel® I226IT (10/100/1000/2500Mbps)                                                                                                                                                                                                                  |                                                               |
| WATCHDOG TIMER               | Output & Interval      | System Reset, Programmable via Software from 1 to 255 Seconds                                                                                                                                                                                             |                                                               |
| POWER                        | Voltage                | DC 12V                                                                                                                                                                                                                                                    |                                                               |
|                              | Connector              | DC Jack (5.5 x 2.5 mm)                                                                                                                                                                                                                                    |                                                               |
| OS SUPPORT                   | OS Support             | Windows 10 IoT Enterprise 64-bit<br>Windows 11                                                                                                                                                                                                            |                                                               |
| ENVIRONMENT                  | Operating Temperature  | • Fanless(CPU TDP 12): -20 to 50°C (wide-temp M.2 SSD)                                                                                                                                                                                                    |                                                               |
|                              | Storage Temperature    | -20 to 85°C                                                                                                                                                                                                                                               |                                                               |
|                              | Relative Humidity      | 5 to 95% RH (non-condensing)                                                                                                                                                                                                                              |                                                               |
| MECHANISM                    | Construction           | Aluminum + Metal Aluminum                                                                                                                                                                                                                                 |                                                               |
|                              | Mounting               | Wall/VESA rail mount                                                                                                                                                                                                                                      |                                                               |
|                              | Dimensions (W x H x D) | • Fanless:111mm x 50mm x 106mm                                                                                                                                                                                                                            |                                                               |
|                              | Weight                 | TBD                                                                                                                                                                                                                                                       |                                                               |
| STANDARDS AND CERTIFICATIONS | Shock                  | Operating:<br>IEC 60068-2-27 Test Ea: Shock Test<br>Half-Sine, 3G @ 11ms, 18 Shock ±X, ±Y, ±Z (each axis 3 times)                                                                                                                                         |                                                               |
|                              | Vibration              | Operating:<br>IEC 60068-2-64 Test Fh: Vibration Board-Band Random Test<br>Random, 1Grms @ 5~500 Hz, 30min<br>Non-Operating:<br>IEC 60068-2-6 Test Fc: Vibration Sinusoidal Test<br>Sweep Sine, 3Grms @ 10~500Hz, 30min                                    |                                                               |
|                              | Certifications         | CE, FCC Class A, RoHS                                                                                                                                                                                                                                     |                                                               |
|                              |                        |                                                                                                                                                                                                                                                           |                                                               |