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 48GB

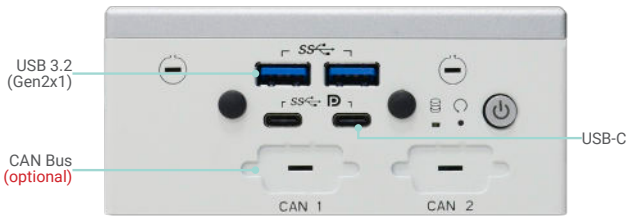
Small Size
111mm(W) x 106mm(D) x 50mm(H)

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

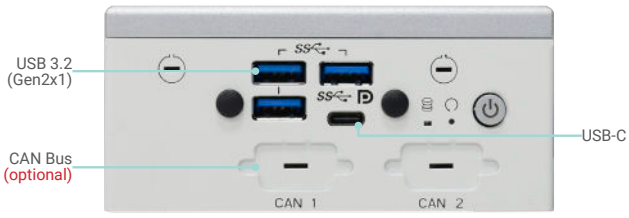
FC CE RoHS

intel IoT Solutions Alliance

PANEL



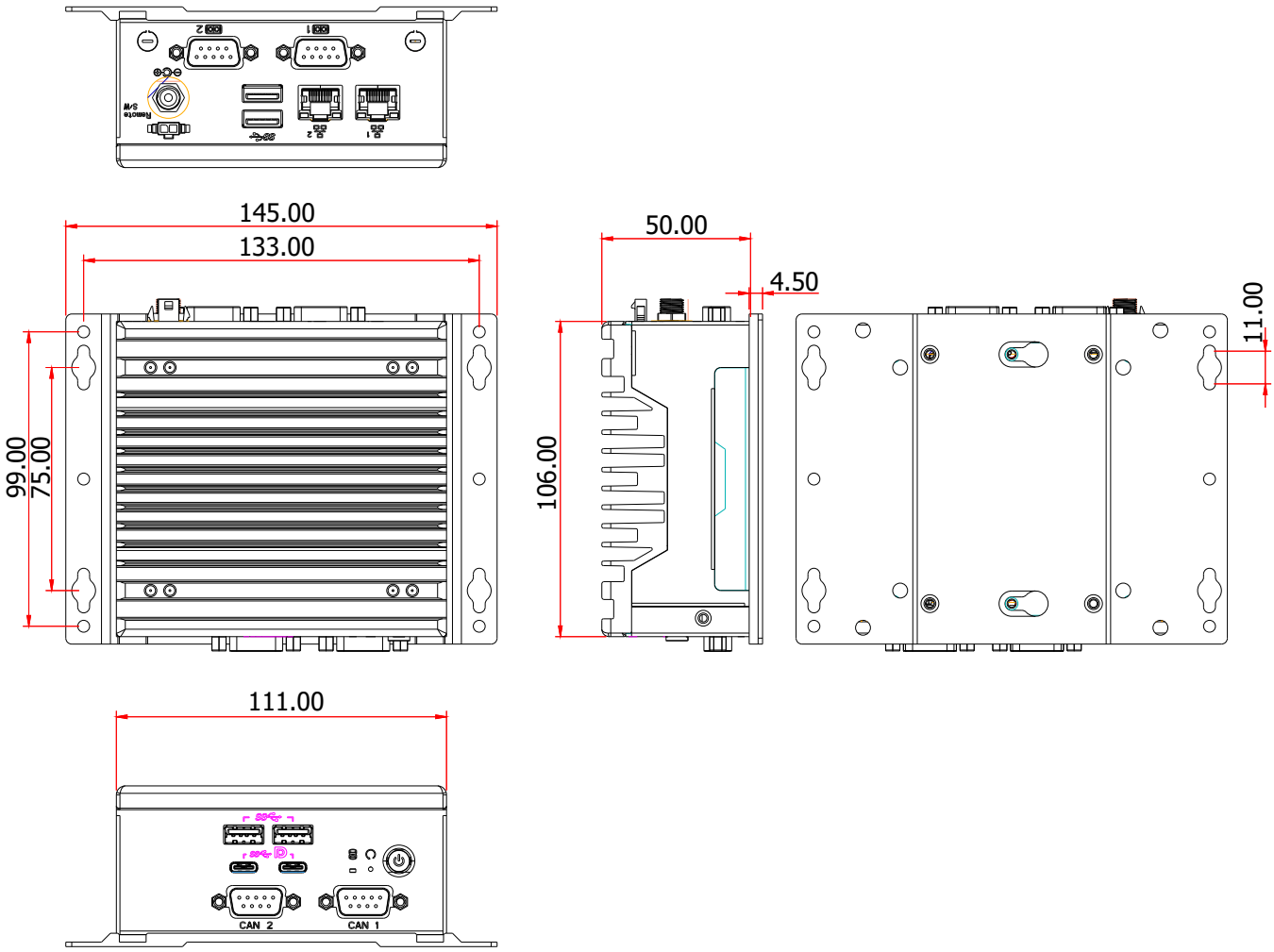
Front View
(EB100-MTU2041)



Front View
(EB100-MTU2050)

Rear View

DIMENSIONS



SPECIFICATION

SYSTEM	**Processor**	Intel® Core™ Ultra Processor (Meteor Lake: U-series) • for Fanless Intel® Core™ Ultra 7 155U (2 P-Cores x 1.7 GHz, 8 E-Cores x 1.2 GHz, 12 MB cache, 12W) Intel® Core™ Ultra 5 125U (2 P-Cores x 1.3 GHz, 8 E-Cores x 0.8 GHz, 12 MB cache, 12W)	
	Memory	1x 262-pin SODIMM up to 48GB 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 DP: resolution up to 4096x2304@60Hz	1 x USB-C DP Alt. mode 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 1 x Storage LED	
FRONT I/O	**USB**	**EB100-MTU2041**	**EB100-MTU2050**
		2 x USB 3.2(Gen2x1) 2 x USB-C(support DP Alt. Mode)	3 x USB 3.2(Gen2x1) 1 x USB-C(support DP Alt. Mode)
	Buttons	1 x Power button 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) 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 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: IEC 60068-2-27 Test Ea: Shock Test Half-Sine, 3G @ 11ms, 18 Shock ±X, ±Y, ±Z (each axis 3 times)	
	Vibration	Operating: IEC 60068-2-64 Test Fh: Vibration Board-Band Random Test Random, 1Grms @ 5~500 Hz, 30min Non-Operating: IEC 60068-2-6 Test Fc: Vibration Sinusoidal Test Sweep Sine, 3Grms @ 10~500Hz, 30min	
	Certifications	CE, FCC Class A, RoHS	

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