EPC-U2117

Intel Atom Platform Palm Size Fanless system



Features

- Intel® Atom Quad Core/Dual Core Processor
- Palm-size form factor: 170 (L) x 117 (W) x 52.6 mm (H)
- Supports 2 x LAN, 2 x COM port, 1 x HDMI, 1 x Display Port, 4 x USB3.0, CANBus, and DCIN 12~24V
- Built-in 1 x M.2 expansion slot (i.e.: Wi-Fi module), 1 x Full size Mini PCIe expansion slot (i.e.: mSATA/ 3G/LTE module)
- Support on-board eMMC and 1 x 2.5" HDD or SDD storage.
- Support Wide Operating Temperature -20 ~ 60 °C (Option)
- Complete certification for EMC and Safety

CE FCC RoHS

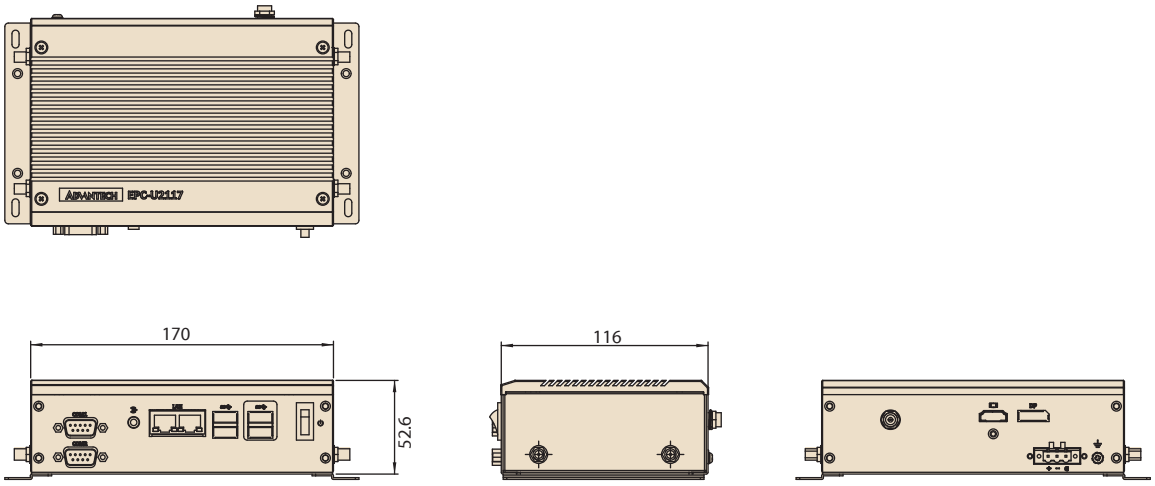
Specifications

		EPC-U2117
Processor System	CPU	Intel Apollo Lake Atom series Processor
	L2 Cache	2MB
	BIOS	AMI EFI 16 Mbit
Memory	Technology	Dual channel DDR3L 1867MHz, up to 8GB
	Socket	One 204-pin SO-DIMM
Graphics	Chipset	Intel Apollo Lake E3900 Series SoC
	Interface	HDMI: 1, max resolution up to 3840 x 2160 @ 30Hz DP1.2: 1, max resolution up to 4096 x 2160 @ 60Hz
Ethernet		Support Dual 10/100/1000Mbps
	LAN	LAN1 & 2: Realtek RTL8111G
I/O Interface	Serial Ports	1 x RS-232 with 5v/12v (BOM Option to MDB) 1 x ccTalk (BOM option to RS-422 or RS-485)
	USB Interface	4 USB3.0 port
	SATA	1 SATA interface, support 2.5" SSD/HDD
	TPM	Infineon SLB9665 chip onboard. Support TPM2.0 (Option)
	CANbus	3pin phoenix connector
Expansion	Mini PCIe	1 x Full-Size Mini PCIe support USB 2.0/SATA 1 x M.2 E key support Wi-Fi module
Storage	2.5" SSD	1 x SATA II SSD bay
	mSATA	1, co-lay with F/S miniPCIE slot
	eMMC	1 x Maximum 128G onboard eMMC
Power Requirement	Power Input Voltage	12 ~ 24 V
	Power Adaptor	AC to DC, DC12 ~ 24 V
Power Consumption	Typical	12V@0.655A
	Max	12V@0.987A
	Power Type	AT/ATX by Jumper option
Mechanical	Construction	Aluminum
	Mounting	Support Wall Mount (Default) VESA/DIN Rail (Optional)
	Dimensions (W x H x D)	Chassis: 170 (L) x 117 (W) x 52.6 mm (H) Motherboard: 112 x 115 mm
Environmental and Certifications	Operating Temperature	-20 ~ 60 °C (with RF module)
	Storage Temperature	-40 ~ 85 °C
	Relative Humidity	95% @ 40 °C (non-condensing)
	Vibration During Operation	With SSD: 3Grms, 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis
	Shock During Operation	With SSD: 30G, IEC 60068-2-27, half sine, 11ms duration
	EMC	CE/FCC Class B
	Safety Certifications	CCC, BSMI

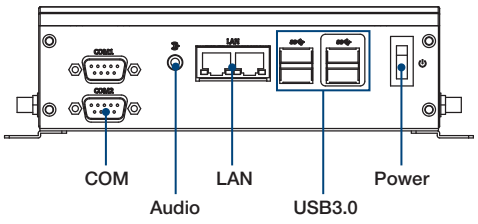
All product specifications are subject to change without notice.

Dimensions

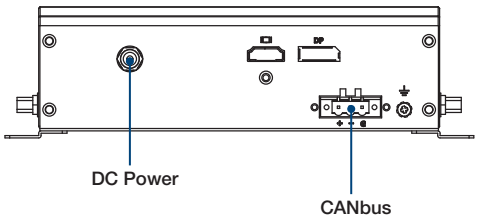
Unit: mm [inch]



Front Panel External I/O Mechanical Layout/Drawing



Rear Panel External I/O Mechanical Layout/Drawing



Ordering Information

P/N	Description	Memory	Storage eMMC	Storage SATA	COM	Operating Temp.	OS
EPC-U2117E3W-03Y10	Emb EPC-U2117 E3930	4GB	32GB	NA	1 x RS-232 1 x ccTalk	0~50 °C	NA
EPC-U2117E3W-03Y2W	Emb EPC-U2117 E3930 W/Win 10	4GB	64GB	NA	1 X RS-232 1 X RS-485	0~50 °C	Win 10 IoT

Power Cord

Part Number	Description
1702002600	Power cable 3-pin 183 cm, USA type (for AC adapter 96PSA-A60W12W6)
1702002605	Power cable 3-pin 183 cm, Europe type (for AC adapter 96PSA-A60W12W6)
1700018704	Power cable 3-pin 183 cm, UK type (for AC adapter 96PSA-A60W12W6)
1700000237	Power cable 3-pin 183 cm, PSE type (for AC adapter 96PSA-A60W12W6)
1700000596	Power cord, 3-pin power cord (CCC) (for AC adapter 96PSA-A60W12W6)

Mounting Kit

Part Number	Description	Note
EPC-BRKU-DR010	EPC-U2000 Din Rail mounting kit	Din Rail and VESA Mount

Antenna Cable

Part Number	Description	Note
1750008653-01	Cable Ant. SMA/F-R-BH MHF4/113 BLK 200mm	For WiFi
1750006009	Antenna Cable SMA (F) to MHF 1.32 25cm	For LTE

Antenna

Part Number	Description	Note
1750008717-01	Dipole Ant. D.B 2.4/5G WIFI 3dBi SMA/M-R BLK	For WiFi
1750007990-01	Antenna 4G/LTE full band L=11 cm 50 Ohm	For LTE