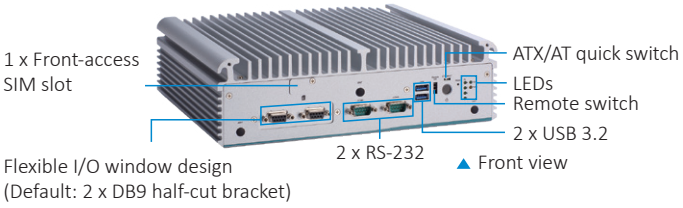
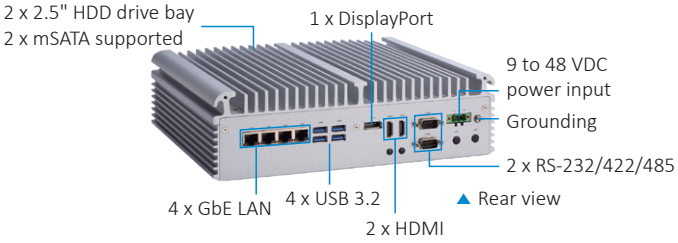
eBOX671A

Fanless Embedded System with LGA1200 Socket 11th/10th Gen Intel® Xeon®, Core™ i9/i7/i5/i3 or Celeron® Processor, Intel® W480E, 2 HDMI, DisplayPort, 6 USB, 4 LAN, and 9 to 48 VDC





Features

- LGA1200 11th/10th gen Intel® Xeon®, Core™ i9/i7/i5/i3 or Celeron® with Intel® W480E chipset (Comet Lake-S)
- 4 GbE LAN with optional PoE supported
- Dual 2.5" SATA HDD drive bays with RAID 0 & 1 support
- Supports triple-view with 2 HDMI and 1 DisplayPort
- -40 °C to +70 °C wide range operation temperature
- Wide range power input from 9 to 48 VDC
- Flexible I/O window supported via mPCIe modules

Specifications

Standard Color	Silver	
Construction	Aluminum extrusion and heavy-duty steel, IP40	
CPU	LGA1200 socket 11th/10th Gen Intel® Xeon®, Core™ i9/i7/i5/i3 or Celeron® processor (35W/65W)	
System Memory	2 x 260 pin DDR4-2933 ECC*/non-ECC SO-DIMM, up to 64GB *ECC memory is available with Intel®Xeon® processor	
Chipset	Intel® W480E	
BIOS	AMI	
System I/O Outlet	**Front side** 1 x Power button 1 x AT/ATX quick switch 2 x USB 3.2 Gen2 1 x Remote switch 1 x Front-access SIM slot with cover (for M.2 Key B) 1 x Reset switch connector 2 x RS-232 (COM3/4) 3 x Antenna opening 1 x Flexible I/O window (default: 2 x half-cut DB9 bracket)	**Rear side** 1 x Phoenix-type DC-in connector 2 x HDMI 1.4b (lockable) 1 x DisplayPort 1.2 ++ 3 x USB 3.2 Gen2 1 x USB 3.2 Gen1 4 x GbE LAN (PoE* optional) (3 x Intel® i210-IT, 1 x Intel® i219-LM) 2 x RS-232/422/485 (COM1/2) 2 x Antenna opening 1 x Grounding screw
Watchdog Timer	255 levels, 1 to 255 sec.	
Storage	2 x 2.5" SATA HDD/SSD (up to 15 mm height & RAID 0 and 1) 2 x mSATA (enabled in BIOS setting & RAID 0 and 1)	
Expansion Interface	2 x Full-size PCI Express Mini Card slot (USB + PCIe + SATA signal) 1 x M.2 Key B 3050 slot (for 5G) 1 x Internal SIM slot for PCIe Mini Card slot	
TPM	TPM 2.0	
System Indicator	1 x Green LED for system power 1 x Orange LED for HDD activity 4 x Programmable Green LED	
Power Input	Standard: 9 to 48 VDC *Optional PoE function supports 24V DC input only	

Specifications

Operating Temperature	Ethernet version : -40°C to +70°C (-40°F to +158°F) with 0.7 m/s air flow (CPU 35W TDP) (with W.T. DRAM & SSD) -40°C to +60°C (-40°F to +140°F) with 0.7 m/s air flow (CPU 65W TDP) (with W.T. DRAM & SSD) PoE version (optional) : -40°C to +60°C (-40°F to +140°F) with 0.7 m/s air flow (CPU 35W TDP) (with W.T. DRAM & SSD) -40°C to +50°C (-40°F to +122°F) with 0.7 m/s air flow (CPU 65W TDP) (with W.T. DRAM & SSD)
Humidity	10% to 90%, non-condensing
Shock Vibration	IEC 60068-2-27 (with SSD: 50G, half-sine, 11 ms duration)
Vibration Endurance	IEC 60068-2-64 (with SSD: 3Grms STD, random, 5 to 500 Hz, 1 hr/axis)
Dimensions	280 mm (11.02") (W) x 210 mm (8.26") (D) x 80.5 mm (3.16") (H)
Weight (net/gross)	4.9 kg (10.8 lb)/7 kg (15.43 lb)
Certifications	CE, FCC Class A, UKCA
EOS Support	Win 11/10 IoT, Linux

* PoE IEEE802.3at, up to 60W
** W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x Thermal grease
1 x 3-pin terminal block connector
1 x Remote power switch cable
4 x Foot pad
1 x M.2 bracket + 2 x thermal pad + screw
2 x HDD bracket + screws

Power Protection

DC Version
OVP (over voltage protection)
UVP (under voltage protection)
OCP (over current protection)
SCP (short circuit protection)
Reverse protection

Ordering Information

Standard

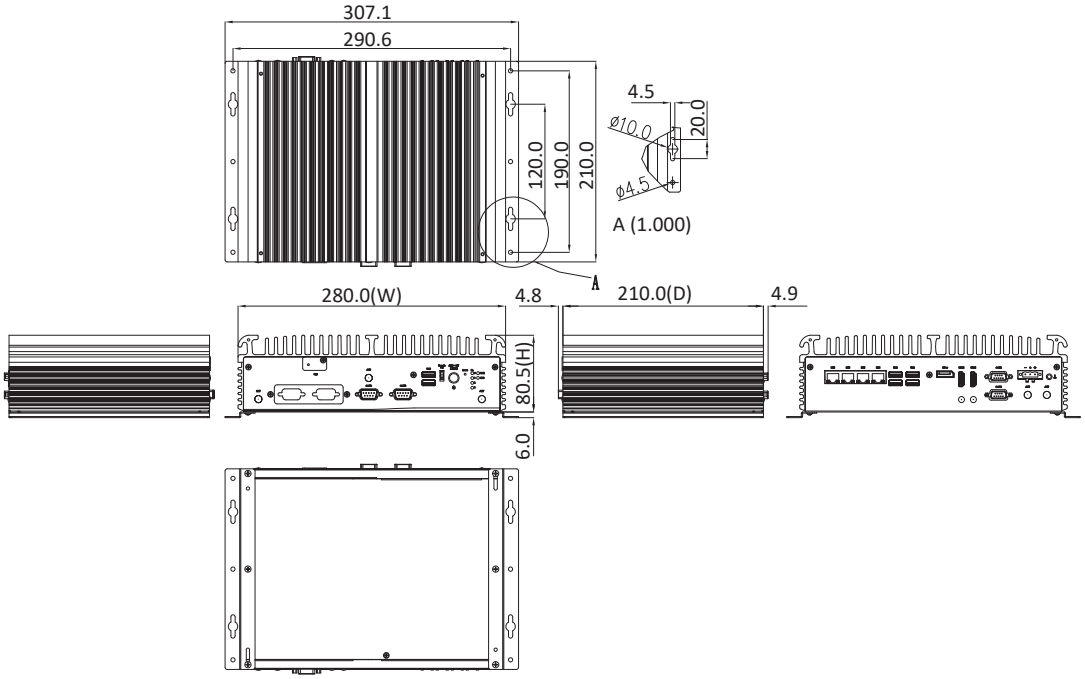
eBOX671A-CML-GbE (P/N: E36K671A00)	Fanless embedded system with LGA1200 socket 11th/10th Gen Intel® Xeon®, Core™ i9/i7/i5/i3 or Celeron® processor, Intel® W480E, 2 HDMI, DisplayPort, 6 USB, 4 LAN, and 9 to 48 VDC

Optional

2.5" SATA HDD	80GB or above
2.5" SATA SSD	100GB or above
DDR4 SO-DIMM	8GB to 32GB
mSATA	64GB or above
E29R129104	Wall mount kit
E29R129119	DIN-rail kit
	5G/Wi-Fi/LTE module
509000001500	24V 120W power adapter
50906A24000E	24V 230W power adapter (for MXM module use)
	Power cord
E392906101	AX92906 COM Mini PCIe Module
E392903102	AX92903 CANbus PCI Express Mini module
E392902103	AX92902 LAN PCI Express Mini module
E392918103	AX92918 Dual LAN PCI Express Mini module
E392905103	AX92905 Audio PCI Express Mini module
591000004500	DIO cable_DB9_200 mm (for optional 8-CH DIO (4in/4out) on flexible I/O window) (up to 2 ports)
Assembly request	4 port PoE module kit

* Specifications and certifications may vary depending on specific requirements.

Dimensions


307.1
290.6
120.0
190.0
210.0
4.5
20.0
Ø10.0
ϕ4.5
A (1.000)
A
280.0(W)
4.8
210.0(D)
4.9
80.5(H)
6.0