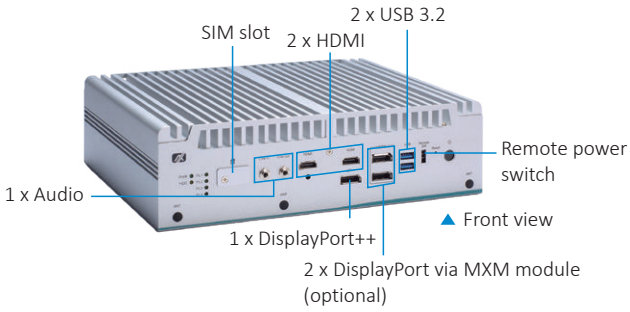
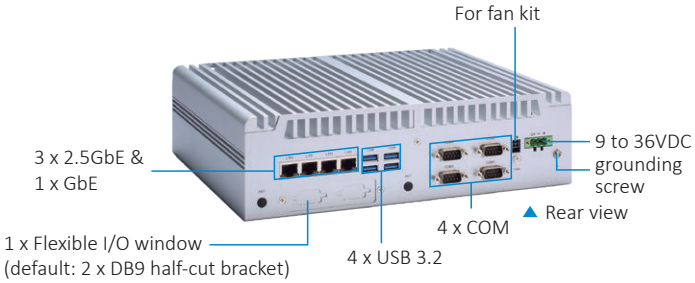
eBOX671B NEW

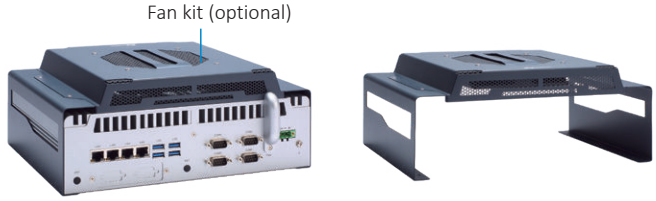
Fanless Embedded System with LGA1700 Socket 14th/13th/12th Gen Intel® Core™ i9/i7/i5/i3 or Celeron® Processor, Intel® R680E, 2 HDMI, 1 DisplayPort, 6 USB, 4 LANs, MXM 3.1 Type A, and 9 to 36 VDC





Features

- 14th/13th/12th gen Intel® Core™ i9/i7/i5/i3 or Celeron® processor with Intel® R680E chipset (Alder Lake S)
- Dual DDR5 SO-DIMM, up to 64GB of memory
- 4 LAN with optional PoE support
- Dual 2.5" SATA SSD/HDD drive bays with RAID 0 & 1
- Supports high speed NVMe storage (M.2 Key M 2280)
- Supports MXM 3.1 Type A, up to 5 display outputs
- Wide operating temperature range from -40°C to +65°C
- Wide range power input from 9 to 36 VDC
- Supports flexible I/O windows via PCIe Mini Card modules



Specifications

Standard Color	Silver	
Construction	Aluminum extrusion and heavy-duty steel, IP40	
CPU	LGA1700 socket 14th/13th/12th gen Intel® Core™ i9/i7/i5/i3 or Celeron® processor (35W/65W)	
System Memory	2 x 262-pin DDR5-4800 SO-DIMM, up to 64GB	
Chipset	Intel® R680E	
BIOS	AMI	
System I/O Outlet	**Front side** 2 x HDMI 1.4b (1 x lockable) 1 x DisplayPort 1.2a 2 x DisplayPort 1.4a via optional MXM kit 2 x USB 3.2 Gen2 1 x Power button 1 x Remote switch 1 x Front-access SIM slot with cover (for M.2 Key B) 1 x Reset switch connector 3 x Antenna opening 1 x Audio (Mic-in/Line-out)	**Rear side** 4 x USB 3.2 Gen2 3 x 2.5 GbE* LAN (Intel® I226-IT) 1 x GbE* LAN (Intel® I219-LM) *4 x PoE (optional) (IEEE802.3at, up to 60W) 2 x RS-232/422/485 with autoflow 2 x RS-232 1 x Phoenix type VDC power input connector 1 x Flexible I/O window (default: 2 x DB9 half-cut bracket) 1 x Grounding screw 2 x Antenna opening
Watchdog Timer	255 levels, 1 to 255 sec.	
Storage	2 x 2.5" SATA HDD/SSD (up to 15 mm height; RAID 0,1 supported) 1 x NVMe by M.2 Key M 2280 1 x mSATA (enable in BIOS setting)	
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB 2.0 + PCIe + SIM + mSATA signal) 1 x M.2 Key M 2280 socket (for storage) (PCIe x4 signal) 1 x M.2 Key E 2230 socket (for Wi-Fi 6E) (USB 2.0 signal) 1 x M.2 Key B 3052 socket (for 5G) (PCIex2 signal) 1 x Internal SIM slot for PCIe Mini Card slot 1 x MXM3.1 Type A connector	

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Specifications

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	9 to 36VDC with ignition for standard Optional PoE function supports 24V DC input only
Operating Temperature	Without MXM module (for CPU 35W/65W): -40°C to +65°C (-40°F to +140°F) (with W.T. DRAM & SSD) With MXM module (only for CPU 35W)(for W.T. MXM T1000 & A500): -40°C to +50°C (-40°F to +122°F) (with W.T. DRAM & SSD) With MXM module (only for CPU 35W) (for W.T. MXM A2000 and requires optional fan kit): -40°C to +50°C (-40°F to +122°F) (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)	4.2 kg (9.25 lb)/5 kg (11.02 lb)
Certifications	CE, FCC Class A, UKCA
EOS Support	Win 10 IoT, Win 11 IoT, Linux

* 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
2 x HDD bracket
1 x Screw pack
2 x DRAM thermal pad

Power Protection

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

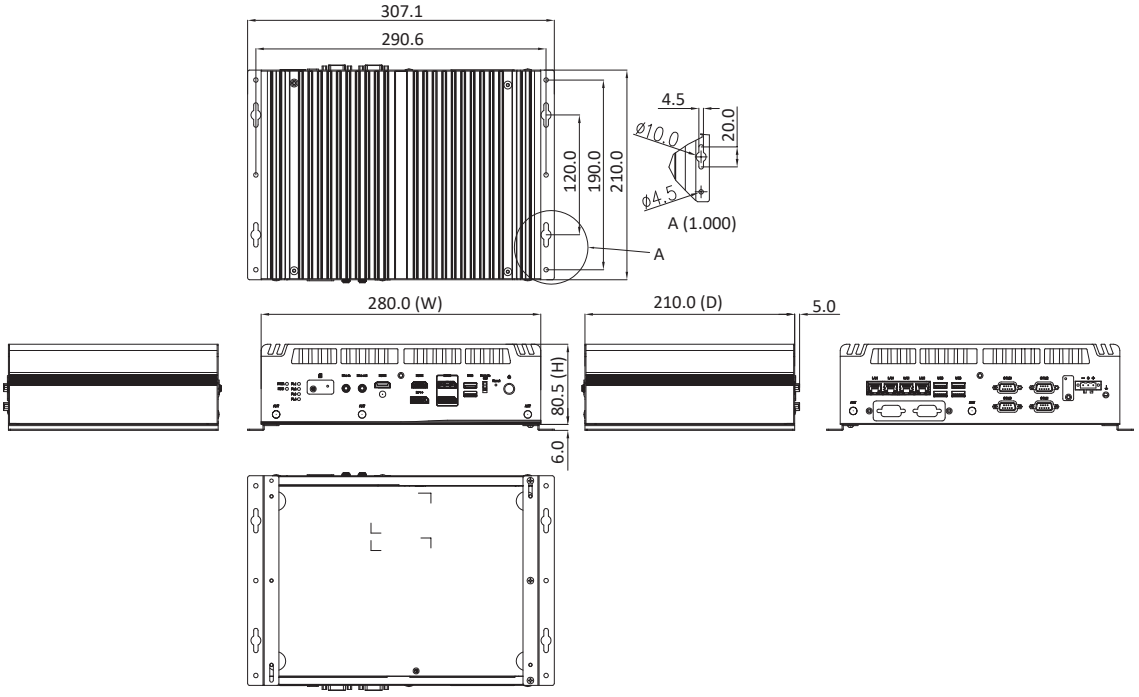
* All specifications and photos are subject to change without notice.

Ordering Information

Standard	
eBOX671B-ALD-GbE (P/N: E36K671B00)	Fanless embedded system with LGA1700 socket 14th/13th/12th gen Intel® Core™ i9/i7/i5/i3 or Celeron® processor, Intel® R680E, 2 HDMI, 1 DisplayPort, 6 USB, 4 LAN, and 9 to 36 VDC
Optional	
2.5" SATA HDD	80GB or above
2.5" SATA SSD	100GB or above
DDR5 SO-DIMM	8GB to 32GB
mSATA	64GB or above
E29R129104	Wall mount kit
E29R129119	DIN-rail kit
	Wi-Fi/LTE module
509000001500	24V 120W power adapter
	Power cord
E392903102	AX92903 CANbus PCI Express Mini module
E392902103	AX92902 LAN PCI Express Mini module
E392918103	AX92918 Dual LAN PCI Express Mini module
E392906101	AX92906 COM Mini PCIe Module
590000063500	DIO cable_DB9_100 mm (for optional 8-CH DIO (4in/4out) on flexible I/O window) (up to 2 ports)
E29R129129	ACC129-E671B-FAN (fan kit)
E29R129130	ACC129-A2000-WT (W.T. NVIDIA RTX™ A2000 MXM module)(M3A2000-VYW-A1)
E29R129127	ACC129-T1000-WT (W.T. NVIDIA RTX™ T1000 MXM module)(M3T1000-PN-A)
E29R129135	ACC129-A500-WT (W.T. NVIDIA RTX™ A500 MXM module) (M3A500-PPW-A2)
50906A24000E	24V 230W power adapter (for MXM module use)

* Specifications and certifications may vary based on different requirements.

Dimensions



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