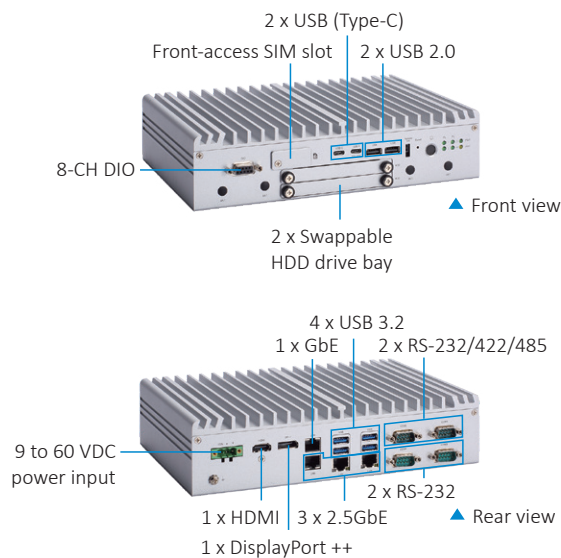


eBOX630B

NEW

Fanless Embedded AI System with Intel® Core™ Ultra Processor, HDMI/DisplayPort++, 4 LAN, 4 COM, 6 USB, 2 USB Type-C, and 9 to 60 VDC



Features

- Intel® Core™ Ultra processor (Meteor Lake-U/H)
- Hybrid AI engines (CPU, GPU, and NPU) integrated with H-series SKUs
- Dual channel DDR5 5600 SO-DIMM, up to 64GB
- 6 USB and 2 USB Type-C with DisplayPort support
- Supports multiple display interfaces with 1 HDMI 1.4b and 3 DisplayPort++ 1.4a
- Three 2.5GbE LAN with TSN and 1 GbE
- Two 2.5" front-access swappable HDD/SSD (RAID 0/1 support) and 1 M.2 Key M 2280 (PCIe x4)
- Wide operating temperature range from -40°C to +70°C
- Wide power input range from 9 to 60 VDC
- Supports the OpenVINO™ toolkit for AI computing



Specifications

Standard Color	Silver	
Construction	Aluminum extrusion and heavy-duty steel, IP40	
CPU	Intel® Core™ Ultra 7 processor 155H (16 cores, 28W TDP) Intel® Core™ Ultra 5 processor 125H (14 cores, 28W TDP) Intel® Core™ Ultra 5 processor 125U (12 cores, 15W TDP)	
System Memory	2 x 262-pin DDR5-5600 SO-DIMM, non ECC, up to 64GB	
Chipset	SoC integrated	
BIOS	AMI	
System I/O Outlet	Front side 2 x USB 2.0 Type-A 1 x USB Type-C (DisplayPort/USB 10Gbps support) 1 x USB Type-C (DisplayPort/USB 10Gbps with 30W power delivery support) 1 x 8-CH TTL DIO with DB9 female connector (4-in/4-out) 1 x Phoenix-type VDC power input connector 1 x ATX power switch 1 x Remote power switch 1 x Reset switch connector 1 x Front-access SIM slot 2 x Antenna opening	Rear side 3 x 10/100/1000/2500 Mbps Ethernet (Intel® I226-IT) 1 x 10/100/1000 Mbps Ethernet (Intel® I210-IT) 2 x RS-232/422/485 with auto flow (COM1/2) 2 x RS-232 with auto flow (COM3/4) 1 x HDMI1.4b (lockable) 1 x DisplayPort++ 1.4a (2 ports via Type-C) 2 x USB 3.2 Gen2 (Type-A) 2 x USB 2.0 (Type-A) 2 x Antenna opening
Watchdog Timer	255 levels, 1 to 255 sec.	
Storage	2 x 2.5" swappable SSD/HDD drive bay (up to 9.5 mm height, supporting RAID 0/1)	
Expansion Interface	1 x Full-size PCI Express Mini Card (USB + PCIe signal) 1 x M.2 Key E 2230 slot for Wi-Fi (USB 2.0 + PCIe signal) 1 x M.2 Key M 2280 slot for NVMe storage (PCIe x4 signal only)	
TPM	TPM 2.0	

Specifications

System Indicator	1 x Green LED for system power-on 1 x Orange LED for HDD/SSD active
Power Input	9 to 60 VDC
Operating Temperature	-40°C to +70°C (-40°F to +158°F) with 0.7 m/s air flow (CPU: 15W TDP) (with W.T. DRAM and SSD) -40°C to +60°C (-40°F to +140°F) with 0.7 m/s air flow (CPU: 28W TDP) (with W.T. DRAM and SSD)
Humidity	10% to 95%, 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)
Package Vibration	MIL-STD-810G 514.6C-II compliance
Dimensions	250 mm (9.84") (W) x 170 mm (6.69") (D) x 60 mm (2.36") (H)
Weight (net/gross)	2.4 kg (5.29 lb)/3.2 kg (7.0 lb)
Certifications	CE, FCC Class A, UKCA
EOS Support	Win 11 IoT, Linux

*W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

TBD

Power Protection

DC Version

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

Ordering Information

Optional

2.5" SATA HDD	256GB or above
2.5" SATA SSD	100GB or above
DDR5 SO-DIMM	8GB to 32GB
Wall mount kit	
DIN-rail kit	
Power cord	
Wi-Fi/LTE module	

*Specifications and certifications may vary based on different requirements.

Dimensions

