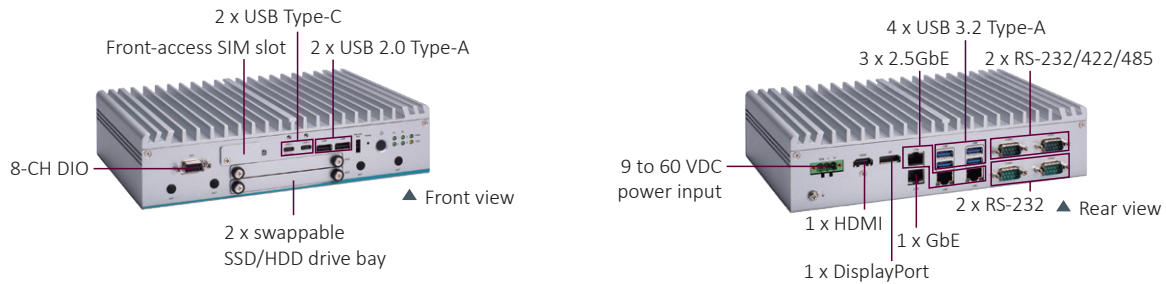


eBOX630B NEW

Fanless Embedded AI System with Intel® Core™ Ultra 7/5 Processor (Series 1 & 2), HDMI/DisplayPort, 4 LAN, 4 COM, 6 USB, 2 USB Type-C, and 9 to 60 VDC



Features

- Intel® Core™ Ultra 7/5 processor (Series 1 & 2)
- Multiple compute engines: CPU, GPU (Intel® Arc GPU by H SKU) and NPU (Intel® AI Boost)
- Dual-channel DDR5-5600 non-ECC SO-DIMM, up to 96GB
- 6 USB and 2 USB Type-C with DisplayPort support
- Supports multiple display interfaces with 1 HDMI 1.4b and 3 x DisplayPort (2 ports via USB Type-C)
- Two 2.5" front-access swappable HDD/SSD and one M.2 Key M 2280
- Wide power input range from 9 to 60 VDC
- Supports the OpenVINO™ toolkit for AI computing

Specifications

CPU	Intel® Core™ Ultra Series 1: Intel® Core™ Ultra 7 processor 155H (16 cores, 28W TDP) Intel® Core™ Ultra 5 processor 125H (14 cores, 28W TDP) Intel® Core™ Ultra Series 2: Intel® Core™ Ultra 7 processor 255H (16 cores, 28W TDP) Intel® Core™ Ultra 5 processor 225H (14 cores, 28W TDP)
Chipset	SoC integrated
System Memory	2 x 262-pin DDR5-5600 non-ECC SO-DIMM, up to 96GB

Specifications

System I/O Outlet	Front Side	USB	2 x USB 2.0 (Type-A) 1 x Type-C (USB 3.2 Gen 2, DisplayPort support) 1 x Type-C (USB 3.2 Gen 2, DisplayPort with 30W power delivery support)	
		DIO	1 x 8-CH TTL DIO with DB9 female connector (4-in/4-out)	
		Others	1 x ATX power switch 1 x remote power switch 1 x reset switch connector 1 x front-access SIM slot 4 x antenna opening	
		Rear Side	Ethernet	3 x 2.5GbE (Intel® I226-IT) 1 x 1GbE (Intel® I210-IT)
			Serial	2 x RS-232/422/485 with auto flow control (COM1/2) 2 x RS-232 with auto flow control (COM3/4)
	USB		2 x USB 3.2 Gen 1 (Type-A) 2 x USB 3.2 Gen 2 (Type-A)	
	Display	1 x HDMI 1.4b (lockable) 1 x DisplayPort 1.4a		
	Others	1 x Phoenix-type VDC power input connector 1 x grounding screw		
	Storage	2 x 2.5" swappable SSD/HDD drive bay (up to 9.5 mm height & RAID 0, 1) 1 x M.2 2280 key M socket (PCIe Gen 4 x4)		
	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)		
TPM	TPM 2.0			
BIOS	AMI			
Watchdog Timer	255 levels, 1 to 255 sec.			
System Indicator	1 x green LED for system power-on 1 x orange LED for HDD/SSD active			
Power Input	9 to 60 VDC			
Power Consumption (Max.)	55.3W (with 48 VDC)			
Operating Temperature	-40°C to +60°C (-40°F to +140°F) with 0.7 m/s airflow (with W.T. DRAM and SSD)			
Storage Temperature	-40°C to +70°C (-40°F to +158°F)			
Relative Humidity	10% to 95% relative humidity, non-condensing			
Shock (Operation)	IEC 60068-2-27 2008 Table A.1 (with SSD: 50G, half-sine, and 11 ms duration) MIL-STD-810H, Method 516.8, and Procedure I (with SSD: 40G, TP sawtooth, and 11 ms duration)			
Vibration (Operation)	IEC 60068-2-64 2019 (with SSD: 3 Grm STD, random, 5 to 500 Hz, and 0.5 hr/axis) MIL-STD-810H, Method 514.8, Category 20, and Figure 514.8C-2			
Package (Non-Operation)	IEC 60068-2-64 (with SSD: 2.25 Grms STD, random, 5 to 500 Hz, and 1 hr/axis)			
IP Rating	IP40 with connector cables installed			
Construction	Aluminum extrusion and heavy-duty steel			
Dimensions (W x D x H)	250 x 170 x 60 mm (9.84" x 6.69" x 2.36")			
Packing Dimensions (W x D x H)	398 x 351 x 211 mm (15.67" x 13.82" x 8.31")			
Weight (net/gross)	2.4 kg (5.29 lbs)/3.2 kg (7 lbs)			
Certifications	CE, FCC Class A, and UKCA			
OS Support	Win 11 IoT, Linux			

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

Ordering Information

eBOX630B-U5-125H (P/N: E360630B00)	Fanless embedded AI system with Intel® Core™ Ultra 125H (Series 1), HDMI/DisplayPort, 4 LAN, 4 COM, 6 USB, 2 USB Type-C, and 9 to 60 VDC
eBOX630B-U7-155H (P/N: E360630B01)	Fanless embedded AI system with Intel® Core™ Ultra 155H (Series 1), HDMI/DisplayPort, 4 LAN, 4 COM, 6 USB, 2 USB Type-C, and 9 to 60 VDC
eBOX630B-U5-225H (P/N: E360630B03)	Fanless embedded AI system with Intel® Core™ Ultra 225H (Series 2) , HDMI/DisplayPort, 4 LAN, 4 COM, 6 USB, 2 USB Type-C, and 9 to 60 VDC
eBOX630B-U7-255H (P/N: E360630B04)	Fanless embedded AI system with Intel® Core™ Ultra 255H (Series 2), HDMI/DisplayPort, 4 LAN, 4 COM, 6 USB, 2 USB Type-C, and 9 to 60 VDC

Optional

2.5" SATA HDD	256GB or above
2.5" SATA SSD	100GB or above
DDR5 SO-DIMM	8GB to 48GB
E29R129103	Wall mount kit
E29R129115	DIN-rail kit
509000001500	24V 120W power adapter
	Power cord
	Wi-Fi/LTE module

*Specifications and certifications may vary based on different requirements.

Packing List

- 1 x remote power switch cable
- 1 x 3-pin terminal block connector
- 4 x foot pad
- 1 x DRAM thermal kit (included bracket & thermal pad)
- 1 x M.2 thermal kit (included bracket & thermal pad)
- 1 x screw pack
- 3 x lockable cable tie

Power Protection

DC Version

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

Dimensions

Unit: mm

