MXE-230 Series

Ultra-Compact, Fanless, Low-Power Edge Computing Platform
powered by Intel® Processor N Series or Atom® Processor X Series

Features

- Ultra-compact size at 165 x 120 x 62 mm (1.2L)
- 6-12W low-power Intel® CPU
- DDR5 4800MHz memory up to 16GB
- Operates between -20°C to 60°C
- Two independent 4K 60fps display outputs
- Multiple I/O expansion options, including M.2 and adaptive function module
- Built-in TPM 2.0
- Seamlessly integrated with the Hailo-8 AI accelerator boasting 26 TOPS
- Support In-Band ECC



Ordering Information

PN	Model Name	CPU	Memory	DP	HDMI	LAN	COM	SATA	M.2	USB2.0	USB3.0	DIO	WiFi
93-41055-00xx	MXE-231/M8G	N97	DDR5 8G	1	1	2	2	1	B,E,M	3	1	x	x
93-41055-32xx	MXE-231/M16G	N97	DDR5 16G	1	1	2	2	1	B,E,M	3	1	x	x
93-41055-40XX	MXE-231B	N97	X	1	1	2	2	1	B,E,M	3	1	x	x
93-41055-10xx	MXE-231/ M8G/4COM/8DIO	N97	DDR5 8G	1	1	2	4 (Isolated x2)	1	B,E,M	3	1	8 (Isolated)	x
93-41055-1Axx	MXE-231/ M8G/6COM/8DIO	N97	DDR5 8G	1	1	2	6 (Isolated x2)	1	B,E,M	3	1	8 (Isolated)	x
93-41055-1Fxx	MXE-231/ M16G/4LAN/16DIO	N97	DDR5 8G	1	1	4	2	1	B,E,M	4	1	16	x
93-41055-50xx	MXE-231F/M16G	N97	DDR5 16G	1	1	2	2	1	B,E,M	3	1	x	x
93-41055-90xx	MXE-231W/M16G	N97	DDR5 16G	1	1	2	2	1	B,E,M	3	1	x	AX210
93-41055-60xx	MXE-232/M8G	x7433RE	DDR5 8G	1	1	2	2	1	B,E,M	3	1	x	x
93-41055-70xx	MXE-233/M8G	x7835RE	DDR5 8G	1	1	2	2	1	B,E,M	3	1	x	x

Packing Lists

PN	Description	QTY
34-35010-1000-A0	Wall mount BRACKET	1

Embedded OS

PN	Description
92-56094-4010 (SW-41055-1MD03)	Windows 10 IoT Ent LTSC Entry PKEA
92-56102-4010 (SW-41055-1SQ00)	Windows 11 IoT Ent LTSC Entry PKEA

Optional Accessories

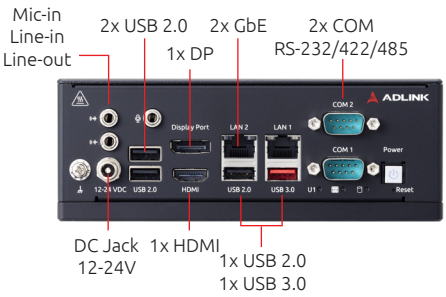
PN	Description
91-95381-0010	AI Module kit (Hailo-8)
91-95381-100E	WiFi Kit (Intel AX210)
91-95381-200E	DIN RAIL Kit (20pcs)
91-95381-300E	5G Kit (FN990)
31-62163-1010-A0	120W, Adapter, 12V/10A, DC Jack
31-62163-1020-A0	120W, Adapter, 12V/10A, DC Jack (MIT)
30-00001-0030-xx	US Power cord, 125V/10A, 1.83M
30-00023-0000-xx	Australia Power Cord, 250V/10A,1.83M

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Specifications

Model	MXE-230 Series			
SKU	MXE-231	MXE-231/4COM	MXE-231/6COM	MXE-231/4LAN
Processor System				
CPU	N97, 4-cores, 3.6GHz, 12W (Support IBECC)			
Memory	1x DDR5 SO-DIMMs, up to 4800MHz			
Operating Systems	Windows 10 IoT Enterprise LTSC 21H2 (64-bit) Ubuntu 22.04			
Display				
HDMI	1 (HDMI 2.0, 4096 x 2160 @ 60Hz)			
DisplayPort	1 (DP1.4, 4096 x 2160 @ 60Hz)			
Ethernet				
Gbe Port	2			4
Controller/ Frequency	2x Intel® i210IT, support 1Gbps/ 100Mbps / 10Mbps			
I/O Interfaces				
USB	1x USB 3.2 Gen 2x1 ports (10Gbps) (Type-A) 3x USB 2.0 (Type-A)			1x USB 3.2 Gen 2x1 4x USB 2.0 (Type-A)
COM	2x RS-232/422/485 DB9 Connector	2x RS-232/422/485 2x RS-232/422/485 (Isolated)	2x RS-232/422/485 2x RS-232/422/485 (Isolated) 2x RS232	2x RS-232/422/485
DIO	-	8DI/8DO		16DI/16DO
Serial ATA	1x SATA 6Gb/s ports w/ 5V SATA power			
Audio	Realtek ALC888S 1x line-in, 1x line-out, MIC-in through 40pin box header			
Expansion Slots	M.2 2280 M Key (PCIex2) M.2 2230 E Key with (Wi-Fi(PCIex1), BT(USB2.0)) M.2 3042 B-key (USB3.0/2.0) w/ SIM card			
TPM	Yes (TPM 2.0)			
Mechanical and Environment				
Dimension	165 x 120 x 62 mm	165 x 120 x 75 mm		
Power Supply	12V-24V DC Jack connector			
Operating Temperature	-20°C to 60°C			
Storage Temperature	-40°C to 85°C			
EMC				
	CE & FCC Class B			
Safety				
	CB, UL/cUL			CB

I/O View



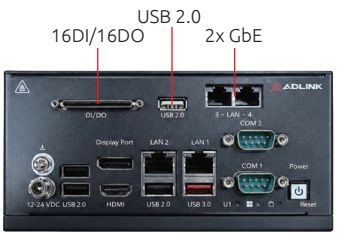
MXE-230



MXE-230F



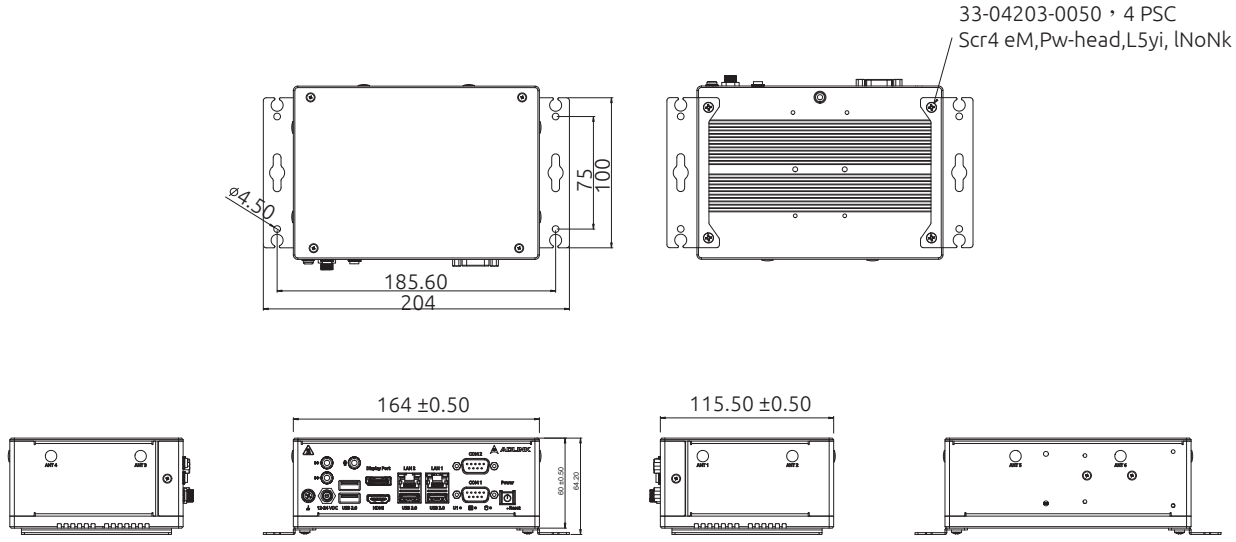
MXE-230 4COM/6COM



MXE-230 4LAN16DIO

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Product Dimensions and Illustration (MXE-230)



CPU Support List

Family	Number	CPU Core	Frequency	Processor Base Power
Intel® Processor N Series	N50	2 Cores	1 GHz	6 W
	N97	4 Cores	2 GHz	12 W
	N200	4 Cores	1 GHz	6 W
Intel Atom® Processor X Series	X7433RE	4 Cores	3.4 GHz	9 W

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