

AEOLUS-MXM12-4L2C



- 12th-14th Gen Intel® Core™ Desktop-grade high performance processor, support processor up to 65W TDP;
- Up to 32 graphics execution units (EUs) based on Intel® UHD Graphics 770 driven by Intel® Xe Architecture, allows for eye-catching visuals;
- 2*RS232/RS485 with Digital Capacitive Isolation TVS Surge Protection;
- The graphics, media, and display engine with up to two VDBOXes that can decode over 40 incoming video streams at 1080p and 30 frames per second;
- Dual M.2 SSD high-speed storage, support high-definition video output;
- Supports 4G/5G/WIFI wireless internet access and enables wireless remote control assistance in various environments;
- Supports DC 19V-36V power supply with strong resistance to current interference;
- Supports multiple installation methods: wall-mounted, vertical, and DIN rail mounting;
- Adopts open grille with built-in cooling fans & copper tube heat dissipation system, ensuring excellent heat dissipation performance;



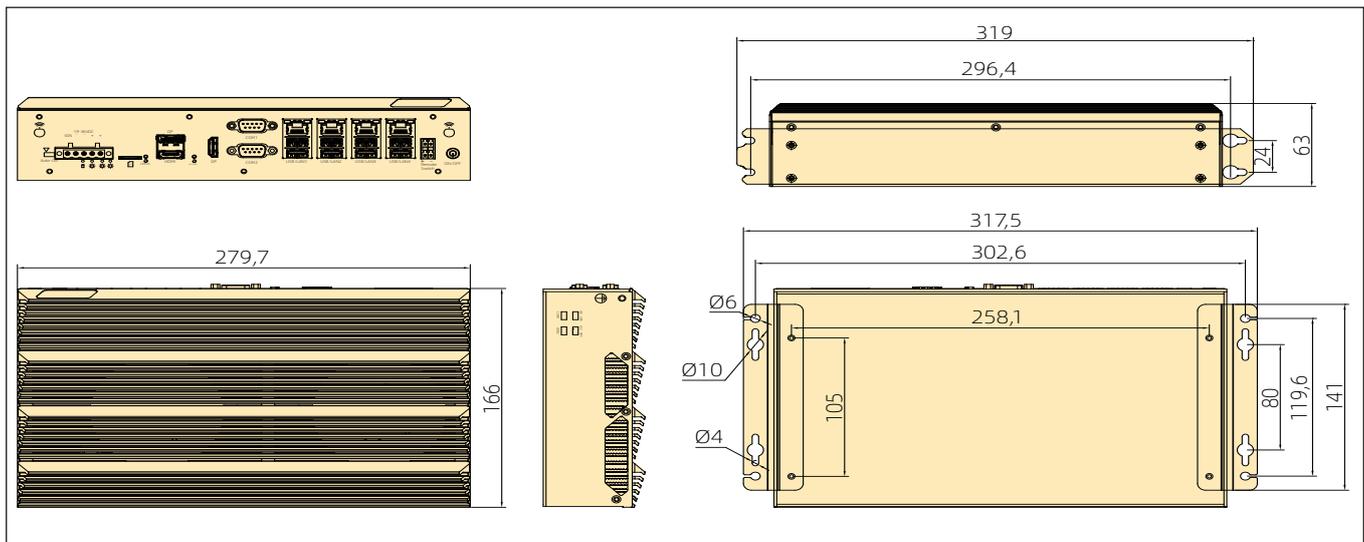
The actual appearance is subject to the final configuration.

Specifications

Model	AEOLUS-MXM12-4L2C	
Supported OS	Win10, Win 11, Linux (Ubuntu, Debian, Kali, CentOS,ect.), Win 10 IoT	
Chipset	Model	Intel® H770 Chipset, TDP 6W
CPU	Socket	Intel® Desktop Processors Socket LGA1700
	Series	Gen. 12/13/14th Intel® Core™ i7/ i5/ i3 Processor
	TDP	Up to 65W
	Graphic	Intel® UHD Graphics 730 for 12-14th Gen. processor
	BIOS	AMI UEFI BIOS; External Clearable CMOS
RAM	SO-DIMM	2* SO-DIMM DDR4 3200 MHz Socket, Capacity up to 64GB
	M.2	1* M.2 2280 M-key slot, support PCIe4 Gen.3 NVMe SSD; 1* M.2 2280 M-key slot, SATA 6Gbps/PCIe 3.0 x4 Adaptive SSD;
I/O Interface	COM	2* RS232/RS485, switchable via side switch, supporting digital capacitive isolation, ESD/EFT/Surge protection;
	Ethernet	3* Intel i210-AT GbE LAN, 1* Intel i219-LM, all supports wake-on-LAN, PXE
	USB	4* USB 3.2 GEN2 x1 (10Gbps); 4* USB 2.0; 1* USB 2.0 internal header
	Video	1* HDMI, which supports a maximum resolution of 4096 x 2160@60Hz; 2* DP, which supports a maximum resolution of 4096 x 2160@60Hz; Note: MXM discrete graphics card (optional), up to triple display capability;
	SIM	1* Nano SIM connected to M.2 Key-B 3042/3052, support 4G/5G wireless
	Power Supply	DC 19V-36V; 5-PIN 5.08mm green connector, 1 Pin with IGN detection
	Featured Interfaces	1* Integrated IGN on-board (vehicle) Module; 1* Remote Switch; 1* Clear CMOS; 1* Recovery Button; 1* Auto ON; 1* Programmable blue status LED;
Extended Capabilities	Additional Internal Interface	1* M.2 2230 E-key slot, PCIe x1 Gen3 + USB 2.0, support WI-FI + BT; 1* M.2 3042/3052 (USB3.0) B-key slot, support 5G wireless; 1* Full-Size Mini-PCIe, PCIe x1 Gen3 + USB 2.0/ SATA 6Gps. Default: PCIe3.0 x1;
Environment	Operating Temp.	-10 ~ 60°C
	Storage Temp.	-20 ~ 70°C (-40~185 °F)
	Relative Humidity	40°C @95%, Non-Condensing
Physical Characteristics	Dimensions	279.7* 63 * 166 mm (W* H* D)
	Net Weight	3 KG
Regulation	EMC	CE/FCC Class B, CCC
	Safety	CE-LVD, RoHS, CCC

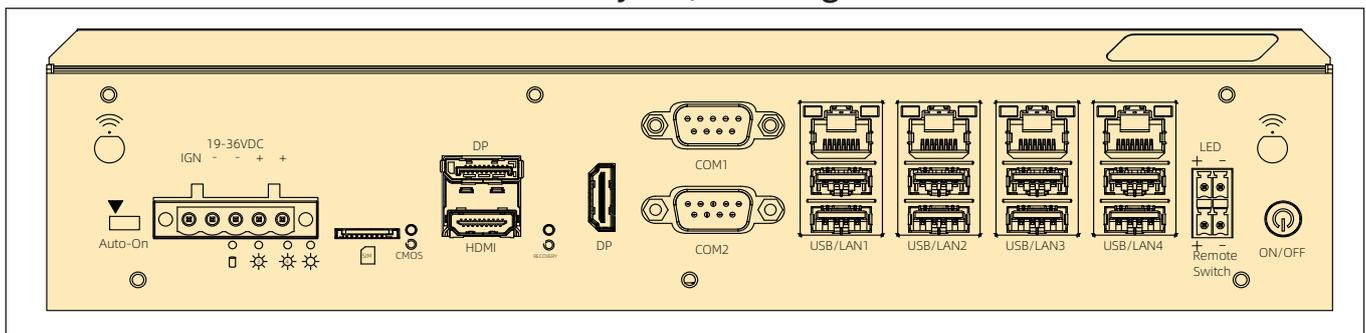
Dimension

Unit:mm



The actual appearance and dimensions are subject to the final configuration

Front Panel External IO Mechanical Layout/Drawing



Ordering Information

SO-DIMM Socket	M.2 2280 M-key Slot	M.2 2230 E-key Slot	M.2 3042/ 3052 B-key Slot	Full Size Mini-PCle	RS232/RS485 switchable	Intel i210-AT GbE LAN	Intel i219-LM GbE LAN			
2	2	1	1	1	2	3	1			
USB3.2	USB2.0	Internal USB 2.0	HDMI	DP	Nano SIM Card Slot	Auto-ON	Recovery Button	External Clearable CMOS	Remote Switch Button	Power Supply
4	4	1	1	2	1	1	1	1	1	DC 19V-30V

Processors Info & Available List

CPU	Code Name	Total Cores	Total Threads	Max Turbo Frequency	Base Frequency	Cache	TDP	Memory Types	Integrated Graphics
Intel® Core™ i3-12100	Alder Lake	4	8	4.30 GHz	3.30 GHz	12 MB Intel® Smart Cache	60W	DDR4	Intel® UHD Graphics 730
Intel® Core™ i5-12400	Alder Lake	6	12	4.40 GHz	2.50 GHz	18 MB Intel® Smart Cache	65W	DDR4	Intel® UHD Graphics 730
Intel® Core™ i7-12700	Alder Lake	12	20	4.90 GHz	2.10 GHz	25 MB Intel® Smart Cache	65W	DDR4	Intel® UHD Graphics 770
Intel® Core™ i9-12900	Alder Lake	16	24	5.10 GHz	2.40 GHz	30 MB Intel® Smart Cache	65W	DDR4	Intel® UHD Graphics 770
Intel® Core™ i3-13100	Alder Lake	4	8	4.50 GHz	3.40 GHz	12 MB Intel® Smart Cache	60W	DDR4	Intel® UHD Graphics 730
Intel® Core™ i5-13400	Alder Lake	10	16	4.60 GHz	2.50 GHz	20 MB Intel® Smart Cache	65W	DDR4	Intel® UHD Graphics 730
Intel® Core™ i7-13700	Alder Lake	16	24	5.20 GHz	2.10 GHz	30 MB Intel® Smart Cache	65W	DDR4	Intel® UHD Graphics 770
Intel® Core™ i3-14100	Alder Lake	4	8	4.70 GHz	3.50 GHz	12 MB Intel® Smart Cache	60W	DDR4	Intel® UHD Graphics 730
Intel® Core™ i5-14400	Alder Lake	10	16	4.70 GHz	2.50 GHz	20 MB Intel® Smart Cache	65W	DDR4	Intel® UHD Graphics 730
Intel® Core™ i7-14700	Alder Lake	20	28	5.40 GHz	2.10 GHz	33 MB Intel® Smart Cache	65W	DDR4	Intel® UHD Graphics 770

All products and company name listed are trademarks or trade names of their respective companies.

!! Note: For more interface configuration or available processors, please consult the sales.

Packing list

Default Items	Qty
AEOLUS-MXM12-4L2C Unit	1
Wall-mounted bracket	1
AC-to-DC Adapter	1
Power cable 3-pin 150cm	1

Options for default items

Optional Items	Qty
Power cable 3-pin 150cm, USA type	-
Power cable 3-pin 150cm, EU type	-
Power cable 3-pin 150cm, UK type	-

Optional accessories or internal modules for unit

Optional Items	Max Qty	Description
4G Module	1	Connected by Mini-PCIE interface
WiFi Module without AP mode	1	Connected by M.2 interface
EtherCAT	1	EtherCAT Master, supporting a maximum of 16 slaves (servos + I/O) at a 1ms cycle
RTX3050 6G	1	MXM TYPEA 50W
RTX4060 8G	1	MXM TYPEA 60W
RTX4070 8G	1	MXM TYPEA 75W
RTX1050TI 8G	1	MXM TYPEA 50W

!! Note: As this product has expansion slots, please consult sales for the specific maximum number of expandable interfaces.