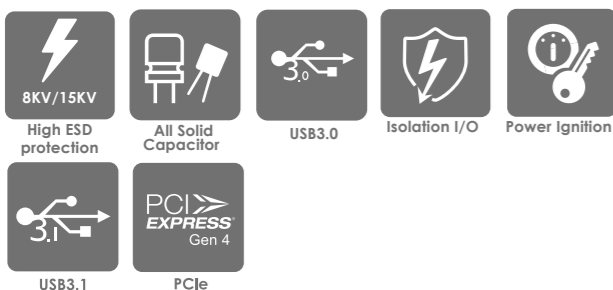


MZ1-10ADP

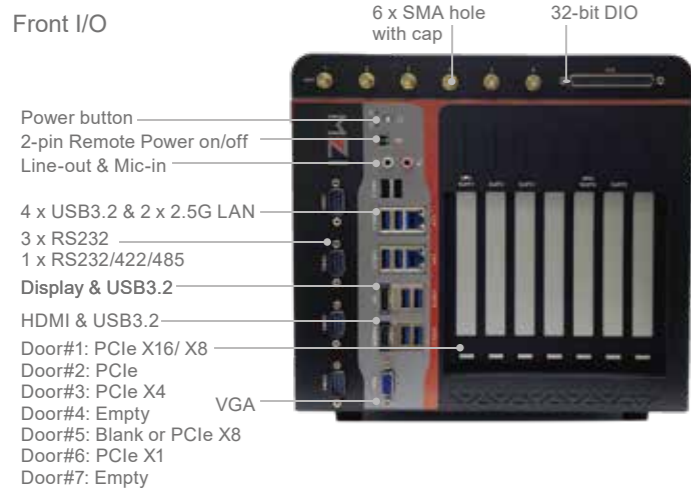
Rugged GPU Computing System
Supports Intel® Alder Lake-S Core-i TDP up to 125W

Introduction

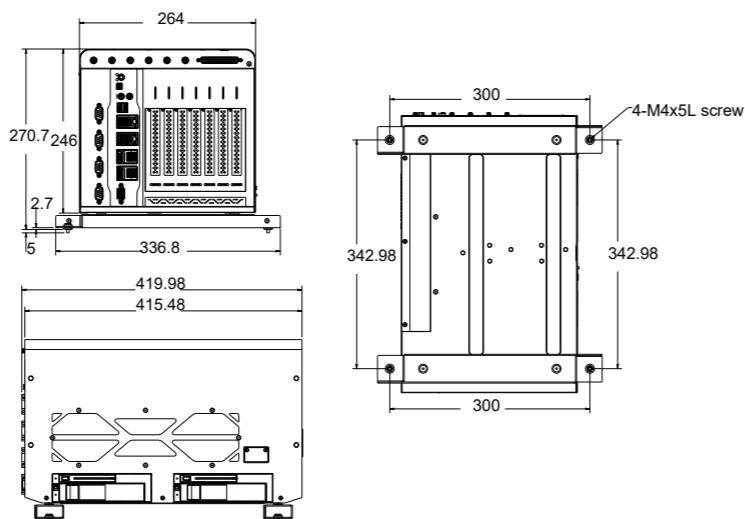
- Intel® 12th Gen Alder Lake-S Core i (Up to 125W)
- Support 2 x DDR5 SO-DIMM (Up to 64GB)
- HDMI, DisplayPort, VGA, Dual 2.5G LAN
- Support 10 x USB, 4 x RS232, and 32-bit DIO
- 9~48V Wide Power Range



I/O Interface



Dimension (mm)



Optional Peripheral

MS-01IGN-S10



Vehicle Power Ignition Card,
12V/24V and Power ON/OFF Timing Selectable

MZ1-10ADP Fan Embedded System



SYSTEM	
CPU	Intel® 12th Gen Alder Lake-S Core i9/i7/i5/i3/Celeron/Pentium (Up to 125W)
Chipset	Intel® R680E
System Memory	DDR5 4800MHz, 2 x 262-pin SO-DIMM, Max. 64GB
Graphics	Intel® UHD Graphics
Display Interface	VGA, DisplayPort 1.4, HDMI 1.4
Storage Slot	2 x mSATA 1 x M.2 B Key 2280/2260/2242 Slot 2 x Hot Swappable 2.5" HDD Tray (support 7-9.5mm height) 2 x Hot Swappable 3.5" HDD Tray 1 x CFAST slot / 1 x M.2 M Key 2280/2262/2242 SSD slot
Ethernet	1 x Intel®I225-LM 2.5GbE LAN + 1 x Intel® I225-V 2.5GbE LAN
Audio	Realtek® ALC888S
I/O Chipset	Nuvoton NCT6126D
TPM	Nuvoton NPCT750AAAYX TPM2.0
Expansion Slot	1 x M.2 3052 / 3042 / 2242 / 2260 / 2280 B key (USB3.0, SATAIII, PCIeX1) w/ SIM slot 1 x M.2 2230/ 2242 / 2260 / 2280 M key (PCIeX4 NVME, SATAIII) 1 x M.2 2230 E key (CNV1, PCIeX1, USB 2.0) 2 x Mini PCIe Full size (USB2.0 / SATAIII / PCIeX1) #1: 1 x PCIe X16 or PCIe X8 #2: 1 x PCIe X4 in PCIe X16 physical connector #3: 1 x PCIe X4 in PCIe X16 physical connector #4: Blank or 1 x PCIe X8 in PCIe X16 physical connector #5: 1 x PCIe X1 in PCIe X1 open ended connector
Indicator	Power Button, Power LED, HDD LED
FRONT I/O	1 x HDMI 1.4 1 x 2-pin Terminal Block Remote Power on / off 3 x RS232 / 4 x USB3.2 Gen2 / 4 x USB3.2 Gen1 6 x SMA hole with rubber cap / 1 x DB37 connector for 32 bit DIO
REAR I/O	2 x 4-pin Terminal Block Power Input 2 x SIM slot to M.2 B Key slot 2 x SIM slot to mPCIe slot 1 x CFAST slot
Internal Speaker	1 x Buzzer
POWER REQUIREMENT	
Power Input	9~48V Wide Range DC Input w/ dual Terminal Block Connectivity
MECHANICAL	
Thermal Design	Fan
Mounting	Wallmount
Dimension	264mm(W) x 415mm(D) x 245(H)
Material	Top cover: Aluminum Alloy, Bezel and chassis: Steel
ENVIRONMENTAL	
Operating Temperature	*Please consult with your sales contact window about the Operating Temperature of GPU Card Configurations / -40°C ~ 70°C (w/ 35W CPU, w/o GPU card) -40°C ~ 60°C (w/ 65W CPU, w/o GPU card) / -40°C ~ 50°C (w/ 80W CPU, w/o GPU card) -40°C ~ 40°C (w/ 125W CPU, w/o GPU card) *Max OT limit -10°C w/ dual GPU card / with 0.7m/s Air Flow and Wide Temperature Memory/Storage
Storage Temperature	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10%~90% R/H (Non-condensing)
Storage Humidity	10% ~ 95% @85°C non-condensing
Vibration Resistance	MIL-STD-810H, Follow Method 514.8C-1 Category 4 for Truck
Shock Resistance	MIL-STD-810H 516.8 procedure I - functional shock, Operating 20G, 11ms (Follow IEC 60068-2-27 half sine)
Certification	CE / FCC
OS	
OS Support	Windows® 10 64-bit, Linux (support by request) <small>*with 0.7m/s Air Flow and Wide Temperature Memory/Storage</small>

Ordering Information

Model Number	PCIe Slot	Power	AC Adaptor
MZ1-10ADP-R680E	#1: 1 x PCIe X16 or PCIe X8 (switchable) #2: 1 x PCIe X4 #4: Blank or 1 x PCIe X8 (switchable)	9~48V Wide Range DC Input w/ Dual Terminal Block Connectivity	None
MZ1-10ADP-R680E-AC300	#3: 1 x PCIe X4 #5: 1 x PCIe X1		300W AC to DC Adaptor

Packing List

Packing			
• 1 x MZ1-10ADP	• 1 x Wall Mount Bracket	• 1 x 2-pin Terminal Block Male Connector	• 2 x 4-pin Terminal Block Power Connector