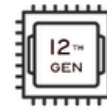


4U RACKMOUNT COMPUTER

D-4007P-MA20



ALDER LAKE
INTEL CORE PROCESSORS



WINDOWS 10 IOT &
WINDOWS 11 PRO
SUPPORT

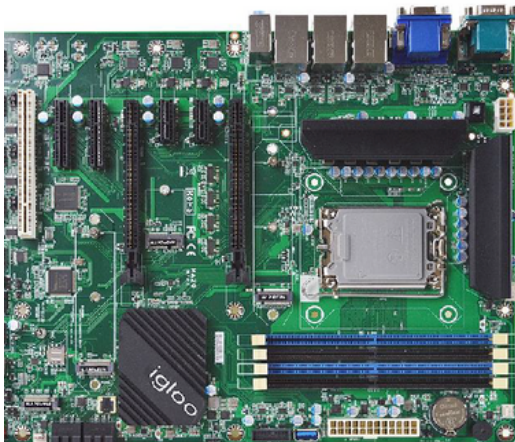


6X PCIe
1X PCI

Intel® Socket LGA 1700 (Formerly Alder Lake-S and Raptor Lake-S) 4U Rackmount Computer with 6x PCIe & 1x PCI



D-400-7 Chassis



MA20 Motherboard

FEATURES

- Patented Aluminum Front Panel with Locks
- Front Access USB2.0 x2
- 80mm x1 Cooling Fan
- Removable Air Filter
- Power and HDD LED
- Power and Alarm Reset Switch
- Optional Aluminum Chassis

THE CHASSIS



D-400-7

4U COMPACT STYLISH
RACKMOUNT CHASSIS

CHASSIS SPECIFICATIONS

Model Number	Security	Air Filter	
D-400-7	Front Bezel	Removable & Washable	
RoHS Compliance	Material of Front Bezel	Motherboard Size	
YES	Aluminum alloy	12 x 9.6 (ATX, microATX)	
Form factor	Material of Handle	Cooling Fan	
4 U	1.2mm SECC Zinc-Coated Steel	1x80mm	
Standard Drive Bays	Material of Main Chassis	Optional Fan:	
3.5" Drives: 1 5.25" Drives: 7 3.5" Drive (internal): 1	1.2mm SECC Zinc-Coated Steel (Japan Made)	1x80mm	
Indicators	Color of Front Bezel	Dimensions (WxHxD)	
LEDs for Power ON/OFF, HDD, Fan & Alarm	Black	Width	19.00" (482.6 mm)
Switches Power ON/OFF, System & Alarm Reset	Black	Height	7.00" (177.8 mm)
		Depth	20.80" (528.3 mm)
Expansion Slots	Front Connector		
7	Front USB 2.0 x 2 Connector		

Front View



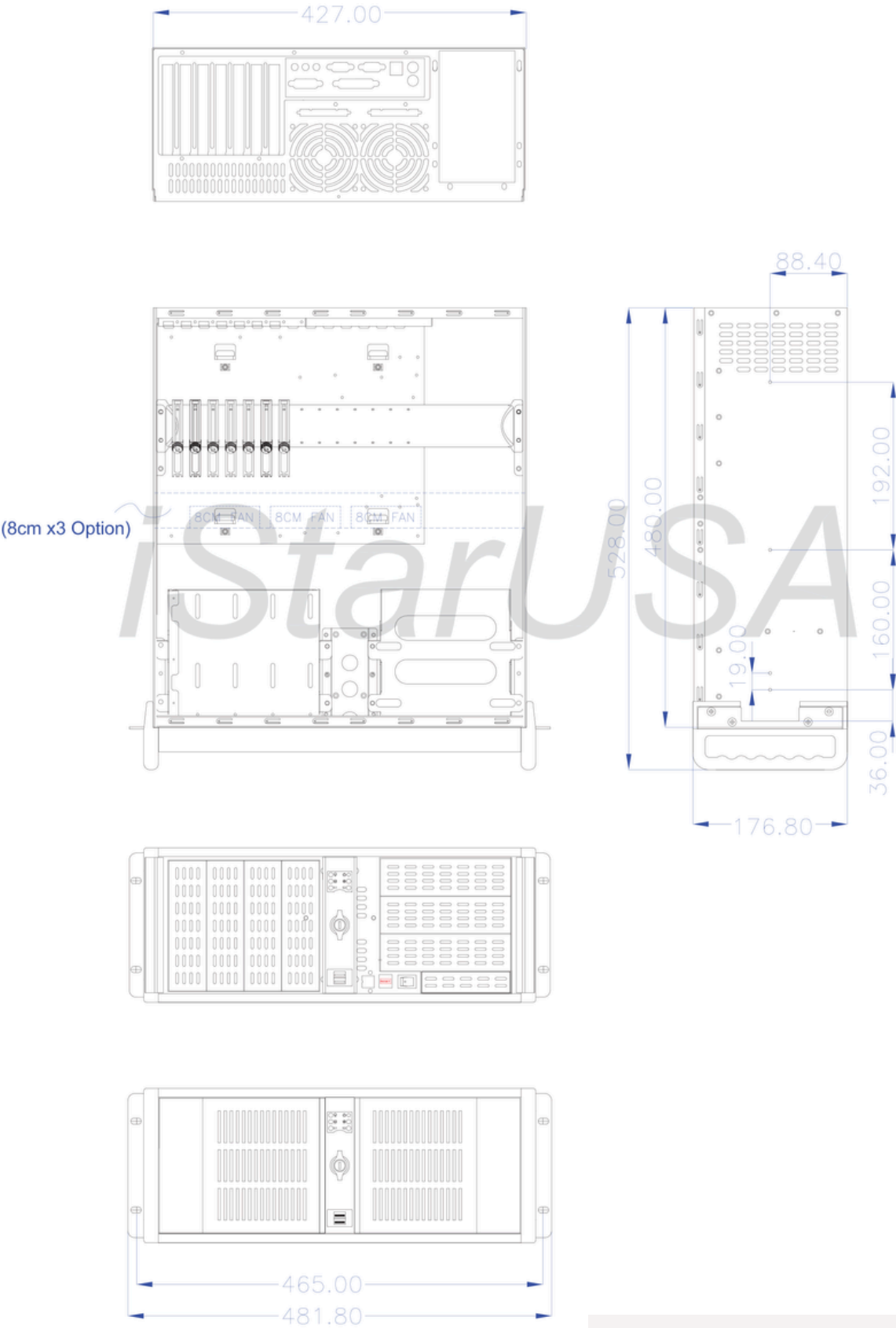
Side View

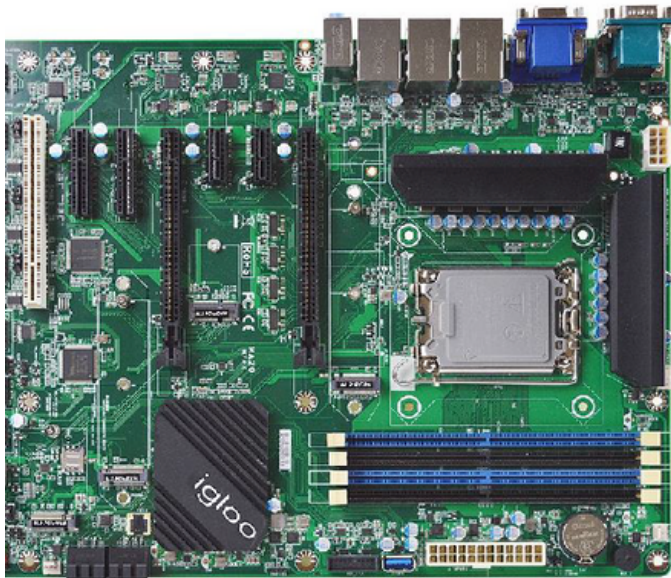


Rear View



CHASSIS DRAWING & MEASUREMENTS





THE MOTHERBOARD

MA20

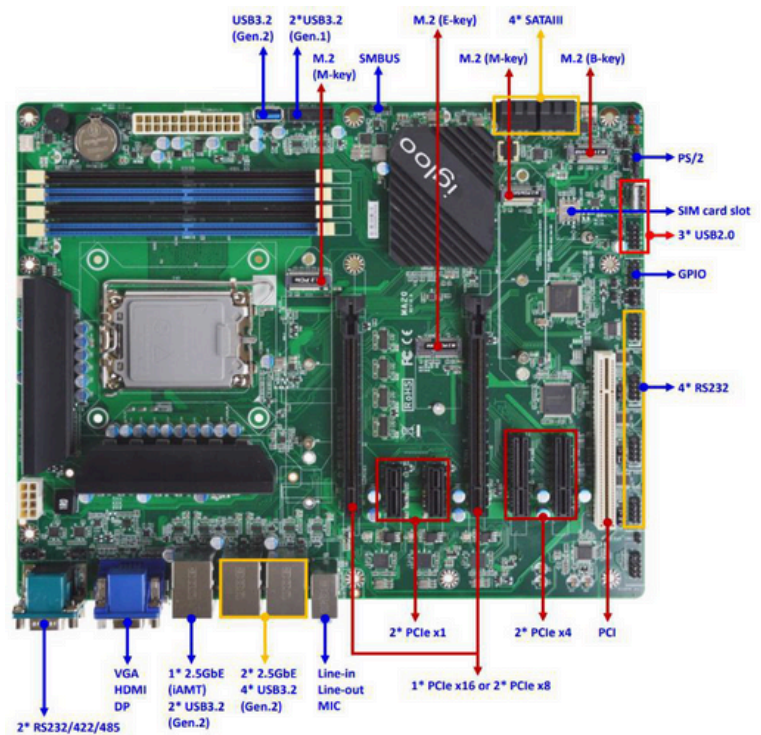
**ATX Q670E / R680E
INDUSTRIAL MOTHERBOARD**

ALDER LAKE / DDR5 / 3*2.5GBE / 4*M.2



MOTHERBOARD FEATURES

- Long-Life Embedded Class Motherboard with Planned Lifecycle Through Q1 2037
- Supports 12/13/14th Gen Intel Processors up to 125W Max Turbo Boost (Alder Lake/Raptor Lake), IAMT/VPRO
- 4* DDR5 UDIMM up to 128GB (R680E ECC Support)
- 4* SATA3 RAID, 1* M.2 SATA & PCIE 4.0x4 NVME, 1* M.2 PCIE 4.0 x4 NVME
- 3* Intel 2.5GbE, 3 displays HDMI, DP, VGA
- 2* PCIE 4.0 x16, 2* PCIE 4.0 x4, 2* PCIE 3.0 x1, 1PCI
- M.2 for WIFI, M.2 for Cellular, 6* Serial Ports, 8-bit GPIO
- Watchdog Timer, Optional TPM2 IC
- Compatible with Win10, Win11, UEFI Linux
- ATX Form Factor (305mm x 244mm)

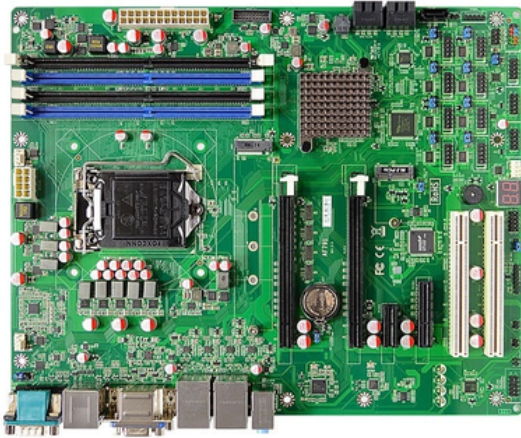


*Specifications subject to change without notice.

MOTHERBOARD SPECIFICATIONS

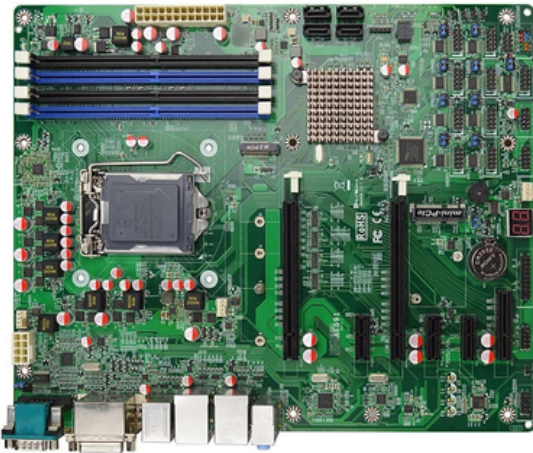
Model / Series	MM20	
Part No	MA20-Q6700 MA20-Q6702 (TPM 2.0)	MA20-R6800 MA20-R6802 (TPM 2.0)
Processor	Socket LGA1700, Supports 12/13/14 th Gen Intel processors up to 125W, Alder Lake, VPRO	
Chipset	Intel Q670E Chipset	Intel R680E Chipset
Video	Intel graphics in processor	
Memory	4 * UDIMM slots supporting DDR5-5600 up to 128GB total, Non-ECC *12 th Gen CPU supports DDR5-4800	4 * UDIMM slots supporting DDR5-5600 up to 128GB total, ECC/Non-ECC *12 th Gen CPU supports DDR5-4800
Expansion Slots	2 * PCIE 4.0 x16 (x16/0 or x8/x8), 2 * PCIE 4.0 x4, 2 * PCIE 3.0 x1, 1 * PCI M.2 E-key 2230 for WIFI, M.2 B-key 3042/3052 for Cellular	
Storage	4 * SATA3 6Gb/s ports, Supporting RAID 0/1/5/10 1 * M.2 M-Key SATA & PCIE 4.0 x4 NVME 2242/2280 1 * M.2 M-Key PCIE 4.0 x4 NVME 2242/2280	
Audio	Realtek HD Audio	
Network	2 * Intel i225-V 2.5GbE, 1 * Intel i225-LM 2.5GbE (iAMT)	
Other Features	Support ACPI S3, CPU Smart FAN, Watchdog Timer 10-255 min/sec, Optional onboard TPM2 IC	
Rear Panel I/O	6 * USB 3.2 Gen2 ports (10Gb/s) 3 * RJ-45 Ports, Line-in, Line-out, mic, 2 * Serial RS232/422/485 ports 1 * HDMI 2.0b 4K@60Hz, 1 * DP 1.4a 4K@60Hz, 1 * VGA	
Internal I/O	1 * USB Header for 2 * USB 3.2 Gen1 ports (5Gb/s), 1 * Vertical Type-A USB 3.2 Gen1 1 * USB Headers for 2 * USB 2.0 ports, 1 * Vertical Type-A USB 2.0 4 * RS232 headers, 1 * PS/2 combo connector, SMBUS header 8-bit GPIO, Chassis Intrusion Header, AT/ATX mode jumper 24-pin ATX and 8-pin 12V_ATX Power connectors	
BIOS	AMI UEFI Flash ROM	
Box Contents	MA20 Motherboard, I/O Shield, SATA cable, COM cable	
Certification	CE, FCC, RoHS, ErP	
Temperature	Operating Temperature -0~60 ° C, Storage Temperature -20-85 ° C	
Form Factor	ATX Form Factor (305mm x 244mm)	
Warranty	2 Years Limited Warranty	

OTHER AVAILABLE MOTHERBOARD OPTIONS



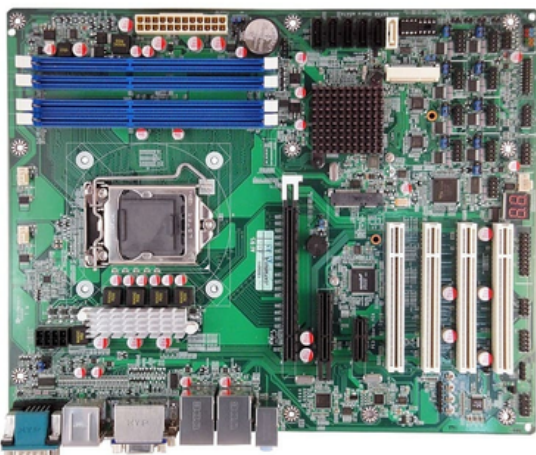
NAF79I

- 8TH GENERATION INTEL® CORE™ I3/I5/I7
- 2X GBE, 6X USB 3.0, 1X RS-232/422/485
- 4X PCIE, 2X PCI
- UP TO THREE INDEPENDENT DISPLAYS — HDMI (UP TO 4K), DISPLAYPORT (UP TO 4K), VGA, AND DVI-D
- ACCOMMODATES 5X SATA DRIVES FOR RAID 0/I/5/10 SUPPORT
- WIN 10 AND LINUX SUPPORT



NAF59I

- 6TH GENERATION INTEL® CORE™ I3/I5/I7
- 2X GBE, 6X USB 3.0, 1X RS-232/422/485
- 6X PCIE
- UP TO THREE INDEPENDENT DISPLAYS — HDMI (UP TO 4K), DISPLAYPORT (UP TO 4K), AND DVI-D
- ACCOMMODATES 4X SATA DRIVES FOR RAID 0/I/5/10 SUPPORT
- WIN 7, WIN 10 AND LINUX SUPPORT



NAF95

- 4TH GENERATION INTEL® CORE™ I3/I5/I7
- 2X GBE, 2X USB 3.0, 4X USB 2.0
- 3X PCIE, 4X PCI
- ACCOMMODATES 6X SATA DRIVES FOR RAID 0/I/5 SUPPORT
- WIN 7 AND WIN 10 SUPPORT

ORDERING INFORMATION

HOW TO ORDER THE D4007P-MA20

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