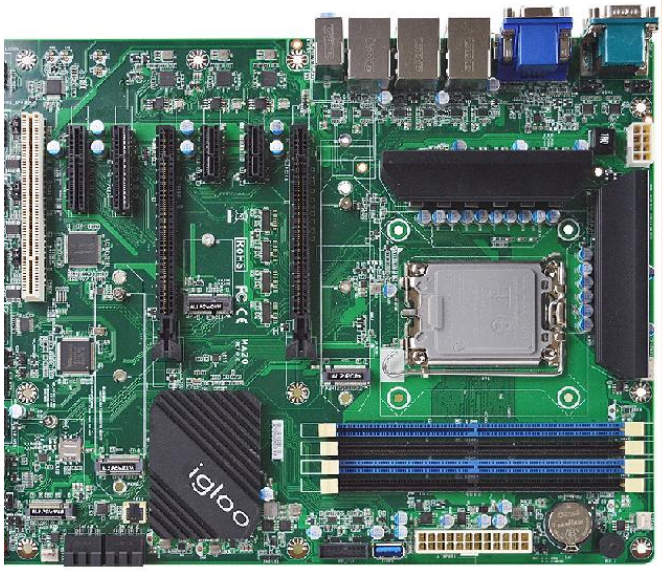
MA20

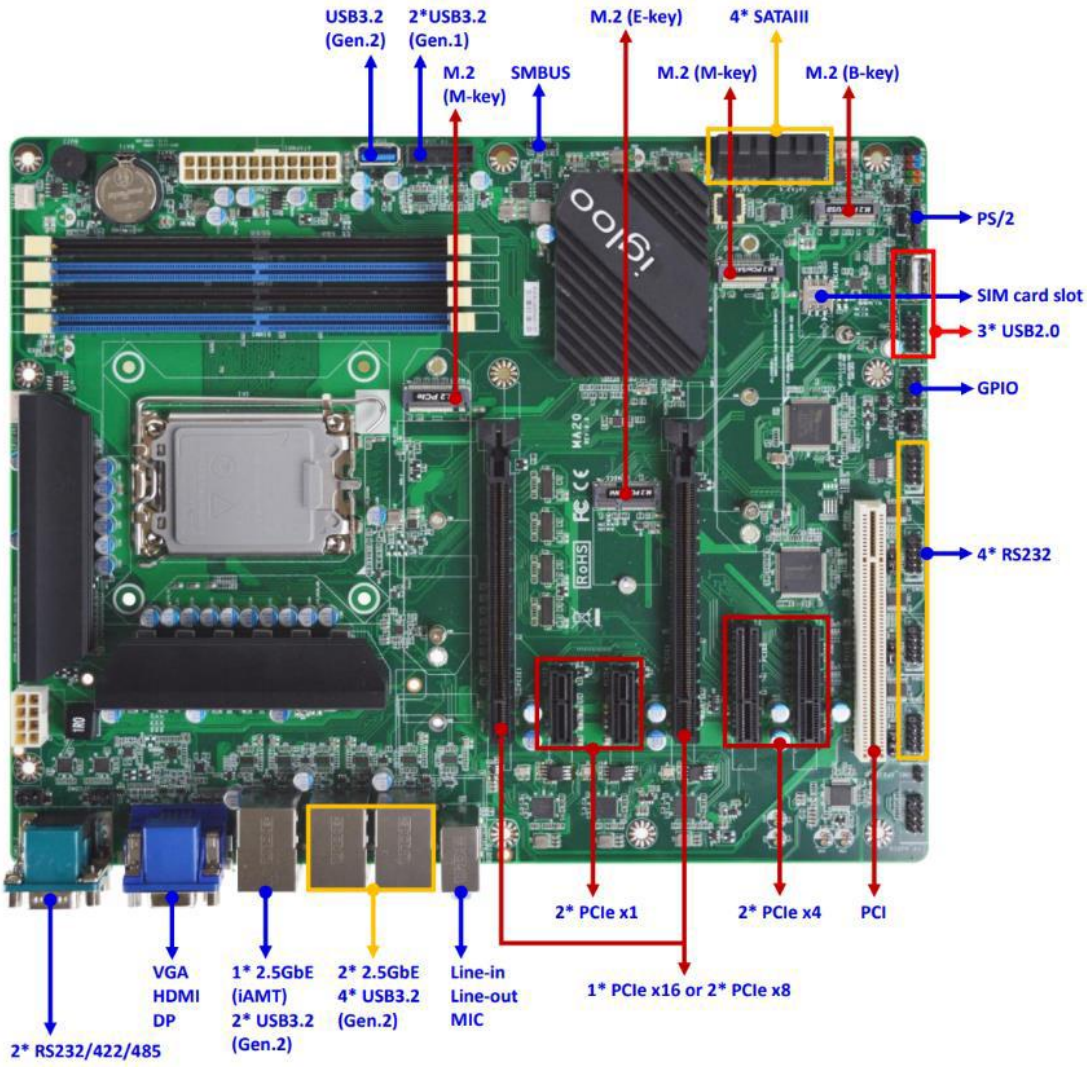
ATX Q670E / R680E Industrial Motherboard
Alder Lake / DDR5 / 3*2.5GBE / 4*M.2





Features

1. Long-Life Embedded Class Motherboard
2. Supports 12/13/14th Gen Intel Processors up to 125W Max Turbo Boost (Alder Lake/Raptor Lake), IAMT/VPRO
3. 4 * DDR5 UDIMM up to 128GB (R680E ECC Support)
4. 4 * SATA3 RAID, 1 * M.2 SATA & PCIE 4.0x4 NVME, 1 * M.2 PCIE 4.0 x4 NVME
5. 3 * Intel 2.5GbE, 3 displays HDMI, DP, VGA
6. 2*PCIE 4.0 x16, 2*PCIE 4.0 x4, 2*PCIE 3.0 x1, 1PCI
7. M.2 for WIFI, M.2 for Cellular, 6 * Serial Ports, 8-bit GPIO
8. Watchdog Timer, Optional TPM2 IC
9. Compatible with Win10, Win11, UEFI Linux
10. ATX Form Factor (305mm x 244mm)



Model / Series	MM20	
Part No	MA20-Q6700-A1 MA20-Q6702 -A1(TPM 2.0)	MA20-R6800 MA20-R6802 (TPM 2.0)
Processor	Socket LGA1700, Supports 12/13/14th 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 *12th Gen CPU supports DDR5-4800	4* UDIMM slots supporting DDR5-5600 up to 128GB total, ECC/Non-ECC *12th 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 i226-V 2.5GbE 1 * Intel i226-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	

*Specifications subject to change without notice, not responsible for typographical errors.

JETWAY
Tech.On The Move

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