LA20

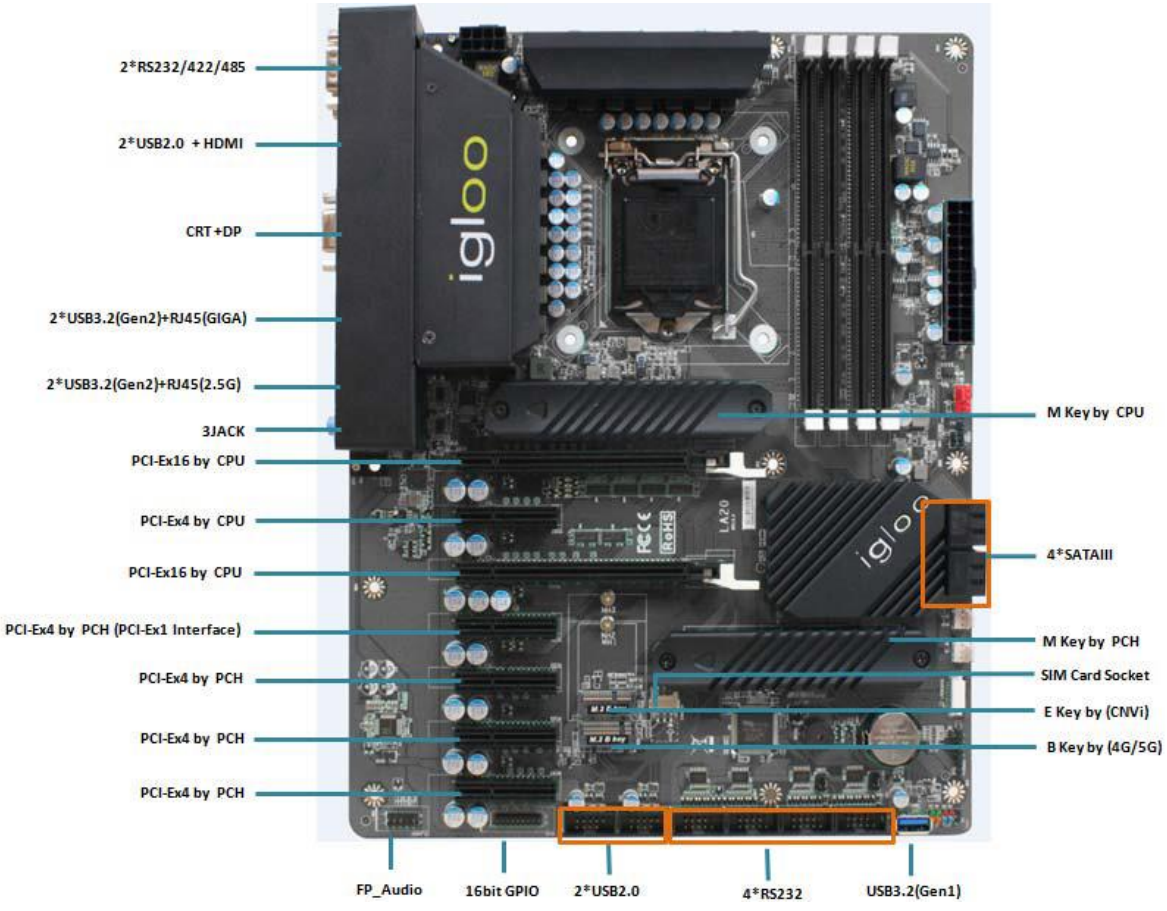
ATX 10/11th Gen Industrial Motherboard / Q470E
2 LAN / 6 COM / HDMI/DP/VGA / RAID / VPRO





Features

1. Long-Life Embedded Class Industrial Motherboard with Planned Lifecycle Through Q2'2035
2. Supports 10/11th Gen Intel Processors, Comet Lake
3. Supports up to DDR4-2933 DIMM up to 128GB Total
4. Up to 3 Displays, HDMI 4K@30, DP 4K@60, VGA
5. 1 * Intel 1GBE, 1 * Intel 2.5GBE, HD Audio
6. 4 * SATA3 RAID, M.2 PCIE 3.0 x4 NVME
7. (when using 11th gen CPU + 1 * M.2 PCIE 3.0 x4 NVME)
8. 4 * USB 3.2 Gen2, 1 * USB 3.2 Gen1, 4 * USB 2.0
9. PCIE 3.0 x16, 4 * PCIE x4,1 * PCIE x4 (x1), 16-bit GPIO
10. 6 * Serial Ports, TPM Option, Watchdog Timer
11. Compatible with Windows 10/11 64bit, Latest Linux
12. ATX Form Factor (305mm x 244mm



Model / Series	■ LA20
Part No	■ JLA20-10 ■ JLA20-12 (TPM 2.0)
Processor	■ Socket LGA1200, Supports 10/11th Gen Intel processors up to 125W (Comet Lake), VPRO
Chipset	■ Q470E
Video	■ Intel HD Graphics
Memory	■ 4 * DIMM supporting DDR4-2933 up to 128GB total (depends on CPU)
Expansion Slots	■ 2 * PCIE 3.0 x16 (x16/x0 or x8/x8), 4 * PCIE 3.0 x4, 1 * PCIE 3.0 x4 (x1 bandwidth)
Storage	■ 4 * SATA3 6Gb/s ports RAID 0/1/5/10 ■ M.2 M-key PCIE 3.0 x4 2242/2280 ■ M.2 M-key PCIE 3.0 x4 2242/2280 (only usable with 11th gen CPU)
Audio	■ Realtek HD audio
Network	■ 1 * Intel i219-LM gigabit LAN (IAMT) ■ 1 * Intel i225/i226-V 2.5GbE LAN
Other Features	■ Support ACPI S3, AHCI, CPU Smart FAN, Watchdog Timer 10-255 min/sec, TPM optional
Rear Panel I/O	■ 4 * USB 3.2 Gen2 (10Gb/s), 2 * USB 2.0 ports ■ 2 * RJ45 ports, 2 * Serial (RS232/422/485), line-in, line-out, Mic ■ VGA, HDMI 1.4 4K@30Hz, Displayport 1.2 4K@60Hz
Internal I/O	■ 1 * USB 3.2 Gen1 Type-A female port ■ 1 * USB header for 2 * USB 2.0 ports ■ 4 * Serial headers (RS232) ■ AT/ATX mode, SMBUS, 16bit GPIO, Chassis Intrusion header ■ 24-pin ATX + 8-pin 12V power connectors
BIOS	■ AMI 128Mb Flash ROM
Box Contents	■ Motherboard, I/O Shield
Certification	■ CE, FCC, RoHS, ErP
Temperature	■ Operating Temperature 0~60 ° C, Storage Temperature -20-70 ° 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.

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