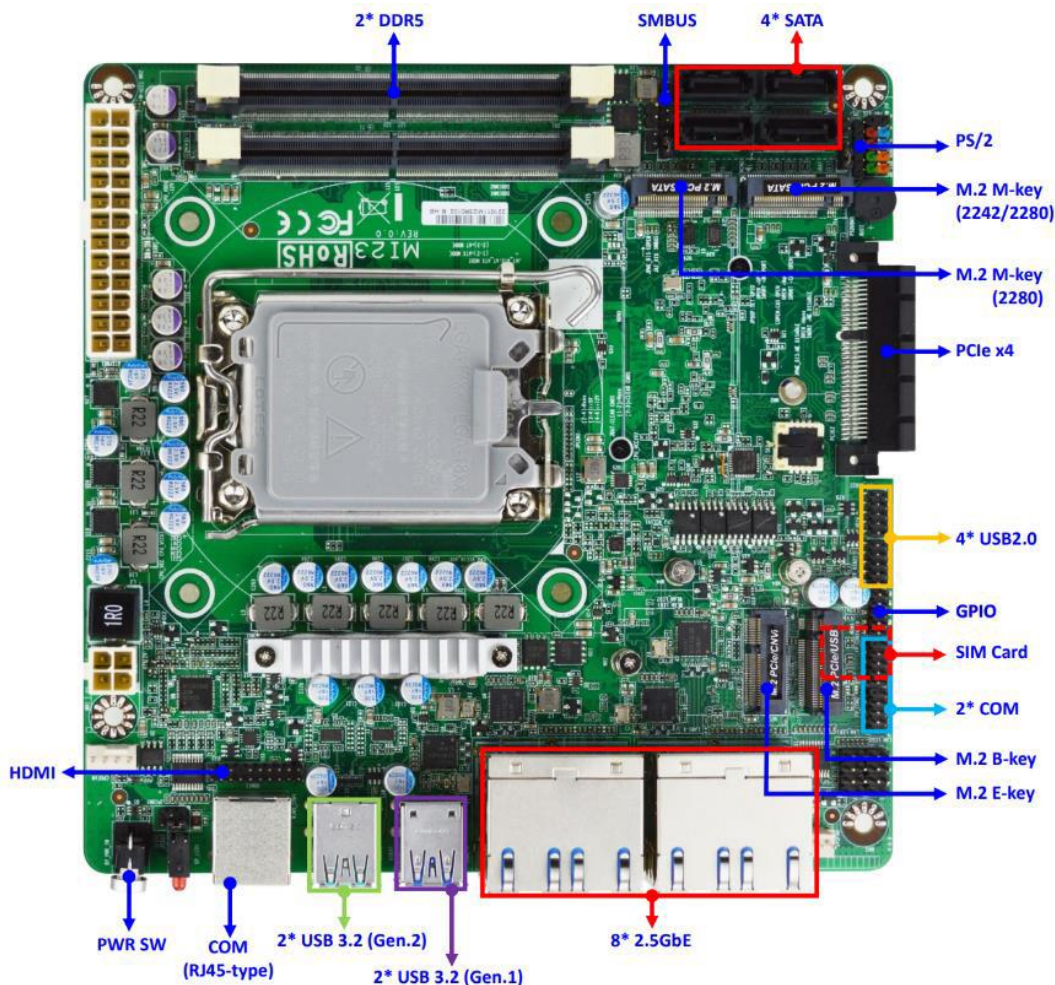


# MI23

## MITX 12/13<sup>th</sup> Gen Industrial Network Motherboard Q670E/R680E (ECC) / 8\*2.5GBE / 3\*M.2 Slots

### Features

1. Long-Life Embedded Class Industrial Motherboard with Planned Lifecycle Through Q1'2037
2. Supports 12/13<sup>th</sup> Gen Intel Processors up to 65W, Alder Lake, Raptor Lake, vPro Capable
3. Supports DDR5 up to up to 64GB Total (R680E ECC support)
4. 8 \* Intel 2.5GBE, one supporting iAMT
5. 4 \* SATA3 RAID, 2 \* M.2 SATA/PCIE 4.0 x4
6. M.2 2230 for WIFI, M.2 3042 with SIM slot for Cellular
7. 4 \* USB 3.2, 4 \* USB 2.0, Audio over HDMI, HDMI Header
8. PCIe 4.0 x4 side-port slot, 3 \* Serial ports
9. Watchdog Timer, 8bit GPIO, TPM2 IC Optional
10. Compatible with Windows 10/11 64bit, Latest Linux
11. Mini-ITX Form Factor (170mm x 170mm)



<b>Model / Series</b>	■ MI23	
<b>Part No</b>	■ MI23-Q6700 ■ MI23-Q6702 (TPM2)	■ MI23-R6800 ■ MI23-R6802 (TPM2)
<b>Processor</b>	■ Socket LGA1700, Supports 12/13 <sup>th</sup> Gen Intel processors up to 65W, Alder Lake, Raptor Lake	
<b>Chipset</b>	■ Q670E	■ R680E
<b>Video</b>	■ Intel HD Graphics	
<b>Memory</b>	■ 2 * DDR5-4800 SODIMM Non-ECC up to 64GB total	■ 2 * DDR5-4800 SODIMM ECC/Non-ECC up to 64GB total
<b>Expansion Slots</b>	<ul style="list-style-type: none"> <li>■ PCIe 4.0 x4 side-port slot</li> <li>■ M.2 E-key 2230 (USB2/PCIe)</li> <li>■ M.2 B-key 3042 with SIM slot for Cellular (USB3/USB2/PCIe)</li> </ul>	
<b>Storage</b>	<ul style="list-style-type: none"> <li>■ 4 * SATA3 6Gb/s ports supporting RAID 0/1/5/10</li> <li>■ M.2 M-key 2242/2280 SATA/PCIe 4.0 x4</li> <li>■ M.2 M-key 2280 SATA/PCIe 4.0 x4</li> </ul>	
<b>Audio</b>	■ Intel audio over HDMI	
<b>Network</b>	<ul style="list-style-type: none"> <li>■ 1 * Intel i225-LM 2.5GbE (IAMT)</li> <li>■ 7 * Intel i225-V 2.5GbE</li> </ul>	
<b>Other Features</b>	■ Support ACPI S3, AHCI, CPU Smart FAN, Watchdog Timer 10-255 min/sec, TPM2 Optional	
<b>Rear Panel I/O</b>	<ul style="list-style-type: none"> <li>■ 2 * USB 3.2 Gen2 (10Gb/s), 2 * USB 3.2 Gen1 (5Gb/s)</li> <li>■ 1 * RJ45 RS232 port, 8 * RJ45 LAN ports</li> <li>■ Power button &amp; LEDs</li> </ul>	
<b>Internal I/O</b>	<ul style="list-style-type: none"> <li>■ 2 * USB headers for 4 * USB 2.0 ports</li> <li>■ 2 * Serial headers (RS232)</li> <li>■ AT/ATX mode, SMBUS, 8bit GPIO, Chassis Intrusion header, PS/2 combo header</li> <li>■ 24-pin ATX + 4-pin 12V power connectors</li> </ul>	
<b>BIOS</b>	■ AMI UEFI Flash ROM with Intel PTT (TPM2 emulation)	
<b>Box Contents</b>	■ Motherboard, I/O Shield, SATA cable, COM cable, HDMI cable	
<b>Certification</b>	■ CE, FCC, RoHS, ErP	
<b>Temperature</b>	<ul style="list-style-type: none"> <li>■ Operating Temperature 0 - 60° C</li> <li>■ Storage Temperature -20 - 85° C</li> </ul>	
<b>Form Factor</b>	■ Mini-ITX Form Factor (170mm x 170mm)	
<b>Warranty</b>	■ 2 Years Limited Warranty	

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



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