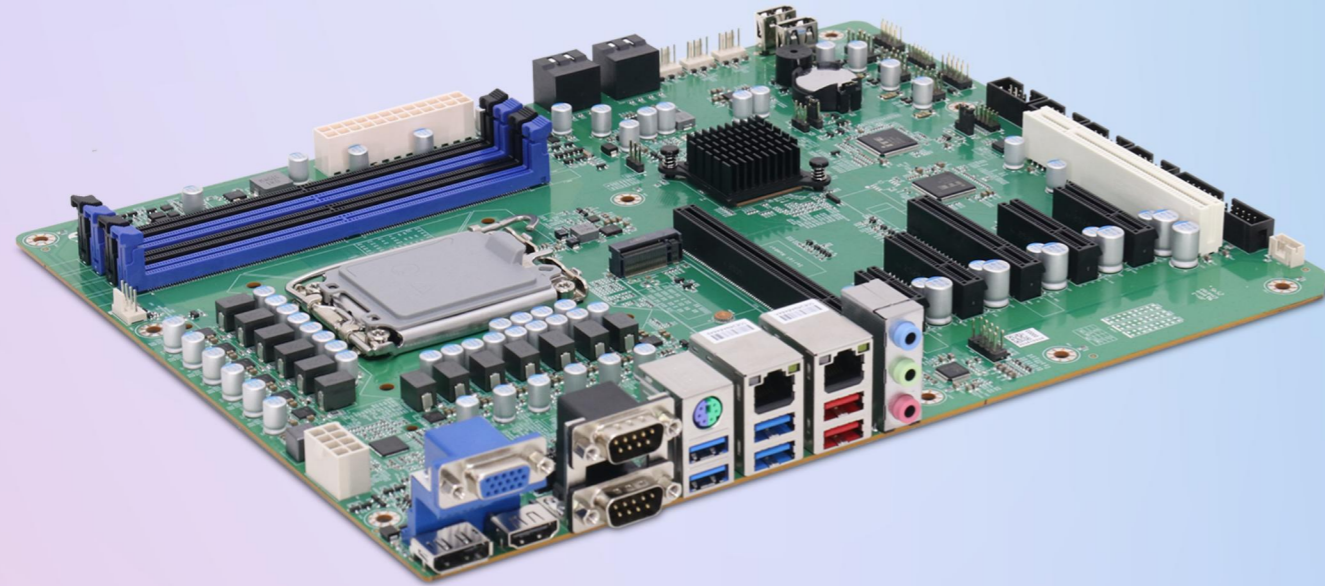


# ATX Industrial Motherboard



## KTB-789G2

Based on the Intel Q870 Chipset  
Supports LGA1851 Intel Core Ultra 9/7/5/3 Processors

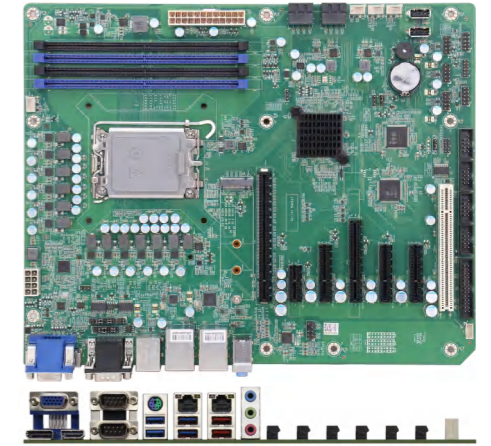
### Industrial ATX Motherboard

Based on the Intel Q870 chipset, the KTB-798 supports LGA1851 Intel Core Ultra 9/7/5/3 processors and up to 192GB DDR5 memory via 4 DIMM slots. It provides rich I/O interfaces including VGA+HDMI+DP display output, dual LAN, 6 COM ports, 4 SATA III, 1 M.2, and multiple USB ports (USB3.2, USB3.0, USB2.0). The board also supports software RAID 0/1/5/10, PCIe x16/PCIe x4/PCI expansion, and a watchdog reset function (1–255 seconds). With industrial-grade anti-interference and strong EMC performance, it is widely used in industrial control, automation, vision systems, and mission-critical applications.

## ATX Industrial Motherboard Based on Intel Q870 Chipset

### Product Features:

- Based on the Intel Q870 chipset, supporting LGA1851 Intel Core Ultra 9/7/5/3 processors
- 4x DIMM memory slots, supporting dual-channel DDR5 5600, with a maximum onboard memory capacity of 192GB
- Provides VGA + HDMI + DP display interfaces
- Supports 4x SATA III, 1x M.2, 2x LAN, 6x COM, and 14x USB ports
- Supports 1x PS/2, 1x LPT, 8x GPIO, and audio interfaces including Line-out, Line-in, and Mic-in
- Supports 1x PCIe x16 Gen 5, 1x PCIe x8 Gen 4, 3x PCIe x4 Gen 4, 1x PCIe x1 Gen 4, and 1x PCI
- Motherboard dimensions: 305mm x 244mm



### Product Specifications

Model	KTB-789G2
Processor	Supports LGA1851 Intel Core Ultra 9/7/5/3 Processors Series 2
Chipset	Intel Q870 Chipset
Memory	4x DIMM memory slots, supporting dual-channel DDR5 5600MHz Max. 48GB per DIMM, up to 192GB total system memory
Storage	4x SATA III ports, supporting software RAID 0/1/5/10 1x M.2 (2242/2260/2280 Key-M SSD socket, supporting NVMe protocol)
BIOS	64Mb SPI FLASH
Display	VGA + HDMI + DP display interfaces VGA: 1x standard DB15 VGA port, max. resolution 1920x1200@60Hz HDMI: 1x standard HDMI port, max. resolution 3840x2160@30Hz DP: 1x standard DP port, max. resolution 4096x2304@60Hz
Network	2x LAN ports, 10/100/1000Mbps adaptive Ethernet, with Intel I219V + Intel I210 controllers
Serial Port	6x COM ports COM1, COM2: support RS232/485/422, COM3–COM6: support RS232
USB	2x USB3.2, 4x USB3.0 (I/O ports), 8x USB2.0 (6x onboard pin headers, 2x onboard vertical connectors)
Audio	Realtek ALC897; supports Line-out, Line-in, Mic-in
Other I/O	1x LPT, 1x PS/2 1x TPM2.0
GPIO	1x 2x5 Pin 2.54mm GPIO pin header, supporting 4 inputs and 4 outputs
Expansion Interface	1x PCIe x16 (Gen 5) 1x PCIe x4 (Gen 4, in PCIe x8 slot) 3x PCIe x4 (Gen 4) 1x PCIe x1 (Gen 4) 1x PCI
Watchdog	Watchdog function, supporting 1–255 seconds system restart
Power Supply	Standard ATX 24pin + 8pin power input
Operating Environment	Operating temperature: 0°C ~ 60°C Storage temperature: -20°C ~ 85°C Operating humidity: 5% ~ 95% RH, non-condensing
OS	Supports Windows 10, Windows 11, Linux
Dimensions	305mmx 244mm