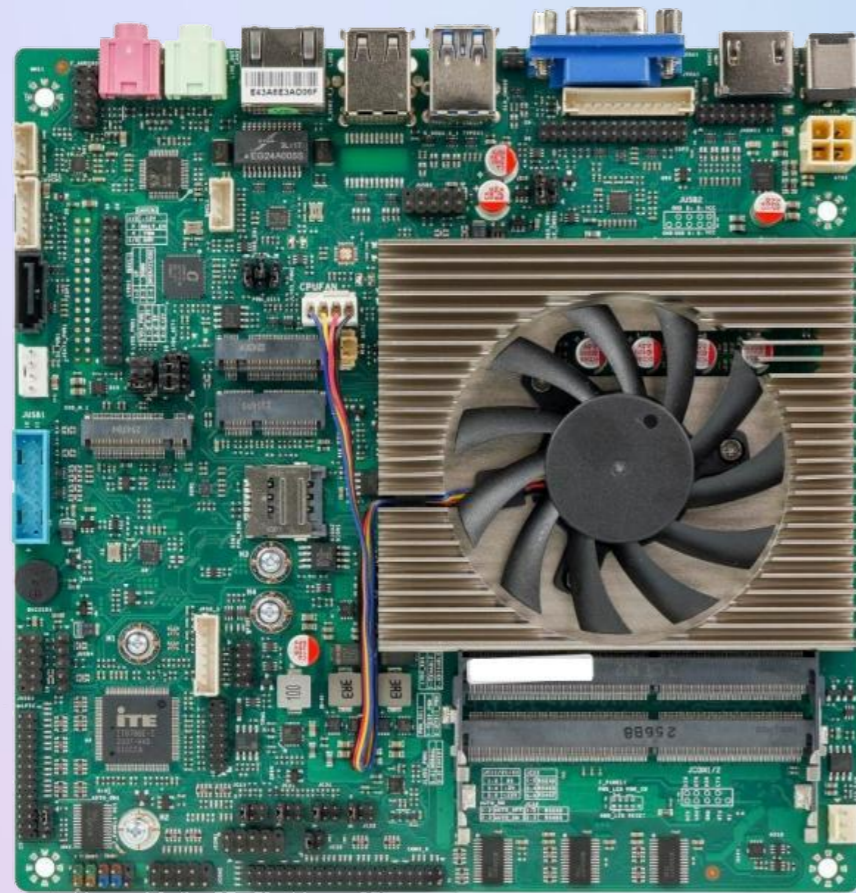


Industrial Mini ITX Motherboard



KTB-12ITX

Supports Intel 13th Raptor Lake & 12th Alder Lake (U/P/H Series)

Industrial Mini ITX Motherboard

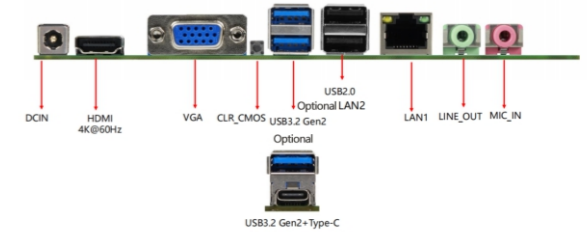
The KTB-12ITX motherboard supports Intel 13th Raptor Lake & 12th Alder Lake (U/P/H Series) CPUs. It conforms to the standard Mini ITX motherboard specification, featuring dual-channel SO-DIMM, DDR4 3200MHz, with a maximum support of 64GB.

It supports LVDS/EDP1+EDP2+HDMI (4K 60Hz)+VGA, enabling four-screen synchronous and asynchronous display. It comes with 1LAN (dual-network optional), 2*USB 3.2, 2*USB 3.0, 7*USB 2.0, 6*COM. COM1 supports TTL (optional), COM2 supports RS232/422/485 (optional), and COM3 supports RS485/232 (optional). It also supports SATA, M.2, and PCIe.

Supports Intel 13th Raptor Lake & 12th Alder Lake (U/P/H Series)

Product Features:

- Supports Intel 13th Raptor Lake & 12th Alder Lake (U/P/H Series)
- Supports dual-channel SO-DIMM, DDR4 3200MHz, Max 64GB
- Supports LVDS/EDP1 + EDP2 + HDMI (4K 60Hz) + VGA, four-screen synchronous and asynchronous display
- Onboard 1*RTL8111H Gigabit Network Card (dual-network optional)
- Supports 2*USB3.2 Gen2 (10*Gbps, 1*type-C optional); 2*USB3.0 Gen1 (5Gbps); 7*USB2.0
- Supports 6*COM RS232; among them, COM1 supports TTL optional, COM2 supports RS485/422/232 optional, COM3 supports RS485/232 optional
- 1*M.2 M Key, supports SATA/PCIe4.0 X4 auto-adaptation; 1*SATA3.0 Port
- 1*M.2 B Key, supports 4G/5G module expansion (5G needs to be communicated with the business for optional configuration)
- 1*M.2 E Key, supports Wifi6 CNVi/Bluetooth module expansion
- DC/4Pin ATX 12-19V wide-voltage power supply; supports system backup/restore (shortcut key)



Product Specifications:

Model	KTB-1 2ITX
Processor	Intel 13th Raptor Lake & 12th Alder Lake (U/P/H)
Chipset	Intel SOC
Display Chip	Intel Iris Xe Graphics
Display Output	LVDS/EDP1 + EDP2 + HDMI + VGA
Multi-display Support	Four-screen Synchronous and Asynchronous
USB	2*USB3.2 Gen2(10Gbps, 1*type-C optional) 2*USB3.0 Gen1(5Gbps), 7*USB2.0
Memory	2*SO-DIMM DDR4 3200MHz Max64GB
Audio	Onboard ALC897 Audio Codec Controller Independent Power Amplifier NS4251, 3W@4Ω max
Network Card	Onboard 1*RTL8111H Gigabit Network Card (Dual-network Optional)
Storage	1*M.2 M Key, 1*SATA3.0 Port
Rear I/O	1*DC IN, 1*HDMI, 1*VGA, 1*Clear CMOS 2*USB3.2 Gen2(10Gbps)1*type-C optional, 2*USB2.0(LAN2 optional) 1*LAN1, 1*LINE OUT, 1*MIC IN
Internal I/O Pins	1*Speaker Pin, 1*AUDIO Pin, 1*LVDS Pin, 1*EDP1 Pin, 1*INVC Pin, 1*SATA Pin, 1*SATA PWR Pin 1*USB1 (Expandable to 2*USB3.0 Gen1 5Gbps; when 5G is selected, this port is USB2.0 Signal) 3*F USB (Expandable to 5*USB2.0), 1*LPT Pin, 1*PS2 Pin, 1*GPIO Pin, 1*TPM Pin, 1*F PANEL Pin 6*COM Pins, 1*CFAN Pin, 1*SFAN Pin, 1*EDP2 Pin, 1*VGA Pin, 1*HDMI Pin, 1*ATX Socket
Expansion Slots	1*M.2 E Key, Supports Wifi6 CNVi/Bluetooth Module Expansion 1*M.2 B Key, Supports 4G/5G Module Expansion
I/O Chip	IT8786E
BIOS	AMI BIOS
Power Supply	DC/4Pin ATX, 12 - 19V Wide Voltage Power Supply It is recommended that customers use 19V 4.7A/12V 7A Power Supply
Cooling System	Self-contained Fan Cooler
Environment	Operating: 0 - 60°C; Storage: -20 - 75°C 0% - 95% Relative Humidity, No Condensation
Motherboard Size	170*170mm