



Industrial 4HDMI motherboard

Model: MB-520-i7-1165G7-4HD



Product Description

- Supports Intel® Tiger Lake-UP3/H35 processors (e.g., 1125G4/1145G7)
- Supports dual-channel SO-DIMM with DDR4 3200MHz and up to 64GB
- Supports LVDS/EDP1+4*HDMI (HDMI 2.0) display output for any four displays with asynchronous operation
- Built-in 1*Intel i219LM Gigabit Ethernet card (optional dual-network configuration: i219LM + i210AT)
- Supports 2×USB 3.2 Gen 2 (10Gbps) and 9×USB 2.0
- Supports 6*COM RS232; COM1 supports TTL, COM2 supports optional RS485/422, COM3 supports optional RS485; COM1/2/3 supports optional live connection
- 1. M.2 Key, supporting SATA3/PCIe 4.0 X4 signals via BOM (Bill of Materials);
- 1*M.2 E Key with CNVi/Bluetooth module expansion support;
- 1*M.2 B Key, supports 4G/5G module expansion (5G requires service notification for optional configuration)
- 1*PCIEX4 expansion slot with DC/4-pin ATX 12~19V wide voltage power supply
- Supports Vpro (requires CPU support); supports system backup/restore (shortcut key)

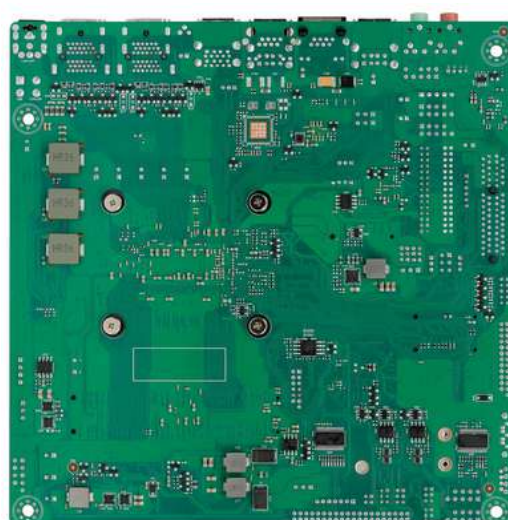
Specification

Product Description	Intel®Tiger Lake-UP3/H35 Processor 11th Intel® 1115G4/1125G4/1145G7/1165G7 and other processors
chipset	Intel® SOC
display chip	Intel® Iris® Xe graphics card
Display output	LVDS/EDP1+4*HDMI

Multi-display support	quadruple display asynchronous
USB	2*USB3.2 G en2 (10Gbps); 9*USB2.0
internal storage	2*SO-DIMM DDR4 3200MHz Max64GB
sound effect	The onboard ALC897 audio decoder controller; Independent power amplifier NS4251 with a maximum output of 3W at 4Ω
network card	1 x Intel i219LM Gigabit Ethernet card Optional dual- network configuration: i219LM + i210AT
memory	1× M.2 Key, supports PCIEX4/SATA signals via BOM selection; 1× SATA III (6.0 Gb/s)
expansion slot	1× M.2 E Key with CNVi/Bluetooth module expansion support; 1× SIM card slot 1* M.2 B Key with 4G/5G module expansion support; 1* PCIe X4 expansion slot
I/O slug	IT8786E
BIOS	AMI BIOS
supply electricity	DC/4-pin ATX power supply with 12-19V wide voltage range (recommended 19V/4.7A)
cooling system	Fan-cooled radiator

environment	Working temperature: 0~60°C; Storage temperature: -20°C~75°C Relative humidity: 0% to 95%, no condensation
Mainboard size	170X170mm
No. of CAN Channels	1*DC_IN port 2 HDMI ports (1 HDMI optional) 2 HDMI ports (1 HDMI optional) 2*USB3.2 Gen2 (10Gbps) 2 USB 2.0 ports (1 LAN 2 optional) LAN1 port 2 USB 2.0 ports 1*F_OUT port 1*F Mic port
internal I/O pin	1*F Audio Pin 1*Speaker pin 3*J_USB (Supports 5*USB2.0 expansion) 1*LVDS pin (optional 1*EDP) 1*INVCN pin 1*PCIEX4 expansion slot 1*GPIO pin 1 LPT pin 1*SATA pin 1*SATA_PWR pin 6*COM pin 1*TPM pin 1*PS/2 pin 1*F Panel Pin 1*SYS_FAN pin 1*CPU_FAN pin 1×4-pin ATX socke

Images





- Optional fanless radiator, part number: ST00000211
- The installation diagram of the fanless radiator is shown below:

