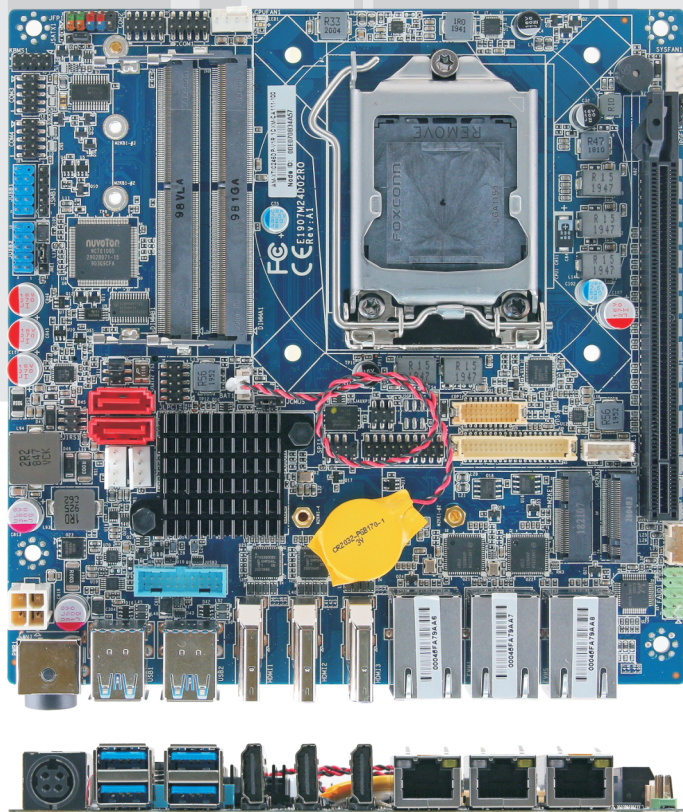


GMB-IC24600

Intel® 8th/9th Gen. Coffee Lake mini-ITX mainboard



Features

- Support Intel® 8/9th Gen. Xeon®/ Core™ i7,i5,i3/Pentium®/Celeron® Processor
- Deliver up to 64GB maximum DDR4-2666 SO-DIMM
- Support multiple displays by 3 x HDMI and Dual-CH LVDS
- Triple Gigabit Ethernet based on 1 x Intel® I219LM 2 x Intel® I210AT
- Rich I/O connections such as four serial ports, USB 3.0/2.0, SATAIII ports
- Support on board TPM2.0

Packing List

- 1 x Mainboard
- 1 x I/O Shield
- 1 x Driver CD
- 1 x SATA Power cable
- 2 x SATA cable

Recommended CPU List

- Intel® Core™ i7-8700
- Intel® 8th Gen. 65W CPU
- Intel® 9th Gen. 65W CPU (4/6 Core)
- Intel® 9th Gen. 35W CPU (8 Core)



Specifications

Main Information	
CPU	Intel® 8 th /9 th Generation Processor (LGA1151) Intel® Xeon®/ Core™ i7, i5, i3/ Pentium®/ Celeron® Processor supported
Chipset	Intel® C246
BIOS	AMI uEFI BIOS, 256Mbit SPI Flash ROM
OS Support	Windows®10 IoT Enterprise LTSC 2019 64 bit
System Memory	2 x 260-pin DDR4 2400/2666MHz SO-DIMM socket, up to 64GB (ECC memory supported depends on CPU)
Storage	2 x SATA III
Watchdog Timer	H/W Reset, 5~255 seconds/5~255 minutes
H/W Status Monitor	CPU & System Temperature and Voltage
TPM	Onboard Infineon SLB9665 support TPM 2.0
M.2	1 x M.2 (2242/2260/2280) M-Key, support Intel RST, PCI-e x4 mode SSD 1 x M.2 (2230) E-Key, support WiFi module 1 x M.2 (3042/2242/2260/2280) B-Key, support WWAN+GNSS with SIM card slot & SSD
PCIe	1 x PCI-e x16 (Max TDP 25W)

Edge I/O Interface	
Display	3 x HDMI 1.4b: 3840 x 2160 @ 30 Hz
USB	3 x USB 3.2 Gen 2 at I/O 1 x USB 3.2 Gen 1 at I/O (upper left connector)
LAN	100/1000 Base-Tx GbE compatible 1 x Intel® I219LM Gigabit Ethernet PHY 2 x Intel® I210AT PCI-e Gigabit Ethernet (Co-lay Intel® I211AT/I210AT)

Display	
Graphic Chipset	Intel® 8/9th Generation CPU integrated
SPEC & Resolution	3 x HDMI 1.4b: 3840 x 2160 @ 30 Hz 2CH 18/24bits LVDS 1920 x 1080 (Chrontel. CH7511B eDP to LVDS Converter)
Multiple Display	Triple Display

Audio	
Audio Codec	Realtek ALC892 HD Audio Decoding Controller
Amplifier	TI TPA3113D2PWP Stereo Class-D 6W amplifier

Ordering Guide	
• GMB-IC24600	Mini-ITX, LGA1151, Intel® 8/9th Gen., C246 PCH, DDR4 SO-DIMM, DC-input

Onboard I/O Interface	
USB	2 x 2 x 5 pin pitch 2.54mm connector for 4 x USB 2.0 1 x 2 x 10 pin, pitch 2.0mm connector for 2 x USB 3.0
COM	COM 1: Support RS232/422/485 selected by BIOS 1 x 2 x 3 pin, pitch 2.00mm connector for COM1 support RS422/485 connector with Pin 5, +5V(JIRS1) 1 x 2 x 3 pin, pitch 2.00mm connector(for jumper setting) for COM 1 support RS232 with Pin 9,+5V/+12V/RI by jumper 4 x 2 x 5 pin, pitch 2.00mm connector for COM 1~4 support RS-232 connector
GPIO	1 x 2 x 10 pin, pitch 2.00mm connector for GPIO: 16 bits & +5VS Level SMBus
SATA Power	2 x SATA power connectors
CPU/ System FAN	1 x 1 x 4 pin, pitch 2.54mm CPU fan connector with smart fan function supported 1 x 1 x 4 pin, pitch 2.54mm System fan connector with smart fan function supported
Buzzer	1 x Onboard buzzer
Front Panel	1 x 2 x 5 pin, pitch 2.54mm connector for front panel
RTC Battery	1 x 2 Pin Pitch 1.25mm Vertical type battery connector
AT/ATX Selector	1 x 1 x 3 pin pitch 2.00mm connector for AT/ATX jumper
Clear CMOS	1 x 1 x 3 pin, pitch 2.54mm connector for COMS Clear
LVDS	1 x 2 x 20 pin, pitch 1.25mm connector for LVDS
LCD Inverter	1 x 1 x 5 pin, pitch 2.00mm Wafer connector for LCD inverter backlight connector (5V/12V)
LPC	1 x 2 x 5 pin, pitch 2.0mm connector for LPC
BIOS SPI	1 x 2 x 4 pin, pitch 2.00mm connector for BIOS SPI
Audio	1 x 2 x 5 pin, pitch 2.54mm connector for front Audio
Activity Indicator LED	1 x 2 x 3 pin, pitch 2.00mm connector for LAN1 ~LAN3 Activity Indicator LED Power good LED
DC-Input	1 x 2 x 2 pin for DC in power connector (DC in +12V~26V(+/-5%) 4-pin DC-in)
Amp Connector	1 x 4 pin, pitch wafer 2.00mm connector for 6W Speaker
PS2	1 x PS2 KB/MS by pin header
System I2C	1 x 1 x 5 pin, pitch 2.00mm, +3.3S Level

Mechanical & Environment	
Power Requirement	DC in +12~26V (+/-5%) 4-pin DC-in
Power Mode	AT/ ATX Mode Switchable Through Jumper
Operation Temperature	0°C ~ 60°C with 0.7m/s air flow
Storage Temperature	-40~ +75°C
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Size (L x W)	6.7" x 6.7" (170mm x 170mm)
Weight	0.40 kg