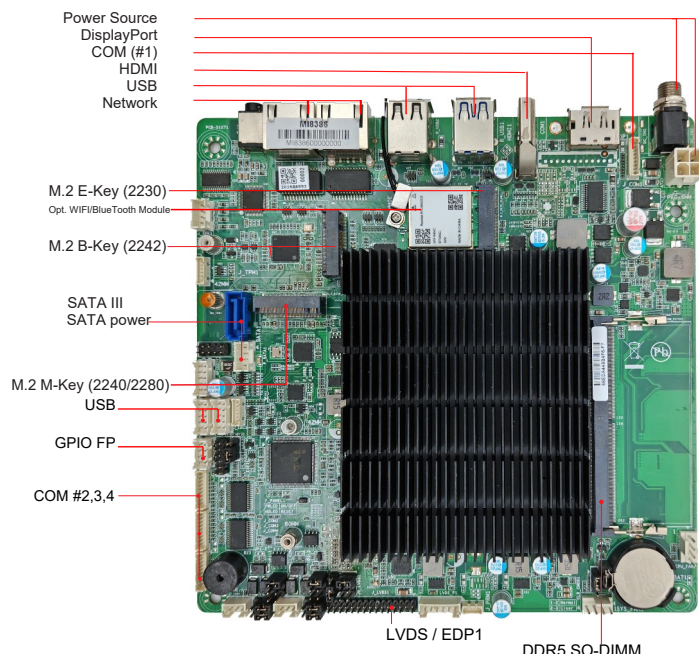




Features

- Intel® Core™ X7211E processor
- 1x DDR5 SO-DIMM 2600, Max. 16GB
- Video output DP, HDMI, LVDS
- 2x RJ45 GbE Intel 210-AT, 226-V
- 8x USB (2x 3.0, 6x 2.0) total
- 1x COM, 3x RS232, 2x COM Multi-Mode
- Storage via SATA III or NVME
- 3x M.2 sockets (E-key, M-key, B-key) NVME/USB
- 12/24Vdc input (mode AT or ATX)
- Supports TPM 2.0, Watchdog timer, Digital I/O

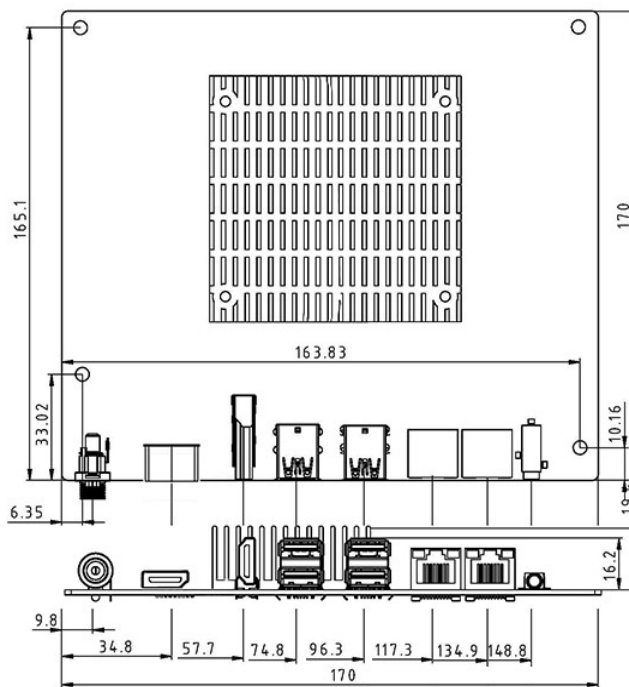
Specifications

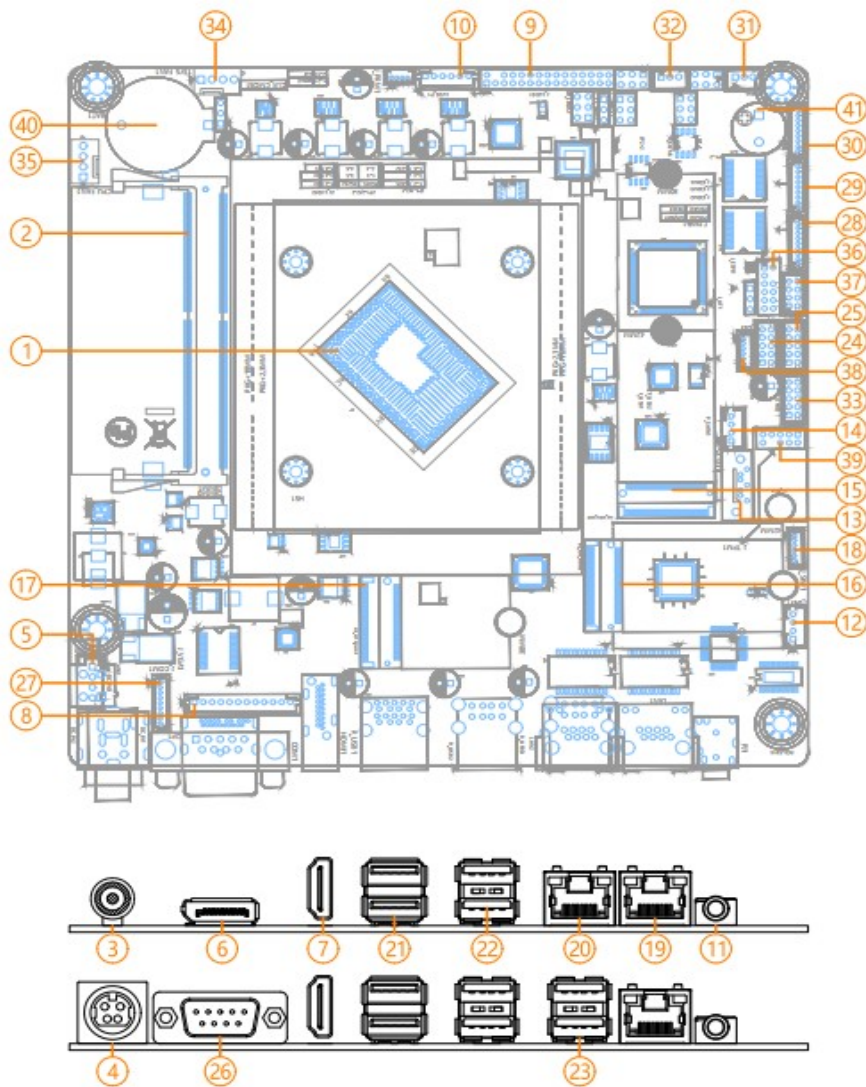
CPU	Intel® X7211E Atom™ X
PCH	N/A
Memory	1x DDR5 SO-DIMM, Max. 16GB
BIOS	AMI UEFI BIOS
Watchdog Timer	256 levels
H/W Monitor	Yes
Storage Device Interface	SATA III, M.2 2280/2240 NVME
Mini Type Slots	3x M.2 sockets (E-key, M-key, B-key) (PCIe Gen 3.0)
Graphics Controller	Intel® SoC integrated Gen12 graphics
Video Output	DP, HDMI and LVDS (Dual channels)
Ethernet	Dual Intel GbE LAN Chip (10/100/1000 Mbps, RJ45)
I/O Chipset	on board
Serial Port	1x RS232 (COM1 on edge) 3x RS232 on header, 2x Multi mode RS232/485) 2Wires
USB 2.0	4x USB 2.0 via (pin header), 2x TYPE-A on edge
USB 3.X	2x USB 3.0 TYPE-A on edge
Serial ATA	1x SATA III / with power on header
Audio	built-in HD audio + ALC888S codec Intel processor serie X or N
TPM	TPM 2.0 (dTPM)
Others	Digital I/O (4-in/4-out), 12V DC-in/ATx
Dimensions (L x W)	102mm x 147mm (4" x 5.8")
Power Consumption	Up to 12w TDP
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-20°C~75°C (-4°F~176°F)
Relative Humidity	10% ~ 90% (non-condensing)

Ordering Information

MI8386F	Intel® X7211E SoC on board Mini-iTx SBC Dual Core 6w 3.2GHz, 2xEthernet, 8xUSB, 6xCom, 12/24v DC-in, DP / HDMI / LVDS
MI8385F	Intel® X7211E SoC on board Mini-iTx SBC Dual Core 6w 3.2GHz, 2xEthernet, 8xUSB, 6xCom, 12/24v DC-in, VGA / HDMI / LVDS

Dimensions and Drawing





- 1) CPU INTEL Alder Lake-N (N97)
- 2) MEMORY SO-DIMM DDR5
- 3) Power In 12/24Vdc DIN-IN (Φ2.5mm)
- 4) (ALT) 12/24Vdc 4-DIN JACK (Φ2.5mm)
- 5) Power In/internal 12/24Vdc Wafer ATX4 or In 4Rows
- 6) Colay/Video Output DP
- 7) Video Output HDMI
- 8) Wafer for Video output VGA
- 9/10) eDP/LVDS Header 3.3v/PWMI
- 11) Audio port (CTIA)
- 12) Audio Output port (5W8Ω)
- 13) SATA-III Port.
- 14) SATA Power out
- 15) M.2-M 2280/2242 Nvme PCIe^{x2}
- 16) M.2-B 2240
- 17) M.2-E 3042 USB2+3, Wifi/Cell
- 18) SIM interface for Cell 4g/5g
- 19) Edge RJ45 Network Intel i210-AT
- 20) Edge RJ45 Network Intel i2226-V
- 21) Edge R_USB1 Type-A USB 3.0
- 22) Edge R_USB2 Type-A USB 2.0
- 23) Edge R_USB3 Type-A USB 2.0
- 24) F_USB1, Wafer/Header USB 2.0
- 25) F_USB2, Wafer/Header USB 2.0
- 26) CoLay/COM1, RS232, DB9M Edge
- 27) COM1, RS232, Wafer, Full Wires, PD
- 28) COM2, RS232, Wafer, Full Wires, PD
- 29) COM3, RS232, Wafer, Full Wires, PD
- 30) COM4, RS232, Wafer, Full Wires, PD
- 31) COM5, RS232/RS485, 2-wires, Wafer, PD selectable
- 32) COM6, RS232/RS485, 2-wires, Wafer, PD selectable
- 33) CPIO Header 4 IN / 4 xOUT
- 34) Sys FAN 4P, 12V Header
- 35) CPU FAN 4P, 12V Header
- 36) factory Header for ESPI
- 37) Front Panel Header (PwrON, Reset, PwrLed, PwrHD)
- 38) I2C Header
- 39) Header, SPI Signal for TPM
- 40) Battery
- 41) Buzzer
- xx) CLR_MOS, Jumper Clear-CMOS
- xx) AT/ATX, Jumper
- xx) fTPM module
- xx) BIOS 16 GB

Note. (ALT) and (Colay) need to be selected.