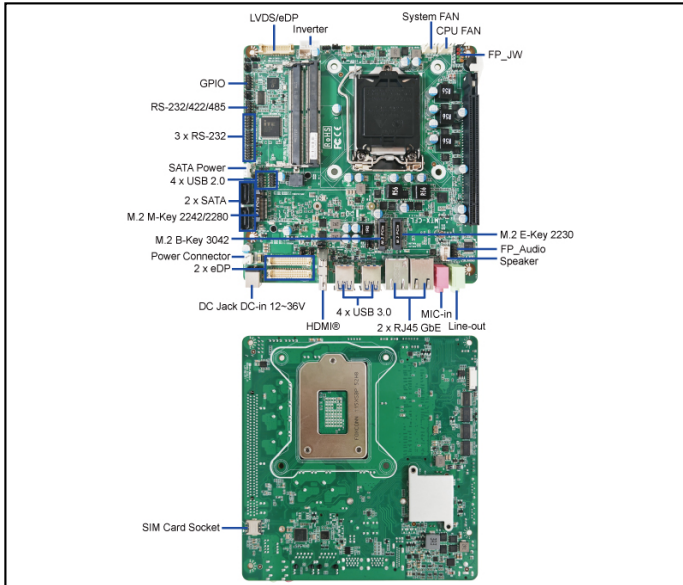


Intel® Coffee Lake-S H310 chipset, supports 8th/9th CPU(Max 65W), DDR4 up to 64GB



Features

- Intel® LGA1151 Socket supports 8th / 9th Gen Core Processor (Max 65W)
- Intel® Coffee Lake H310
- 2 x DDR4 2666 MT/s, up to 64 GB
- 1 x Intel® I210-AT GbE + 1 x Intel® I219-V GbE
- 1 x M.2 M-Key (PCIe x4 Interface, NVMe), 1 x M.2 E-Key (PCIe x1+ USB 2.0 Interface), 1 x M.2 B-Key (PCIe x1 + USB 2.0 Interface)
- 2 x SATA III (6 Gb/s), 1 x PCIe x16 (Gen 3)
- 1 x HDMI®, 2 x eDP, 1 x LVDS/eDP
- 1 x RS-232/422/485, 3 x RS-232, 4 x USB 3.0, 4 x USB 2.0

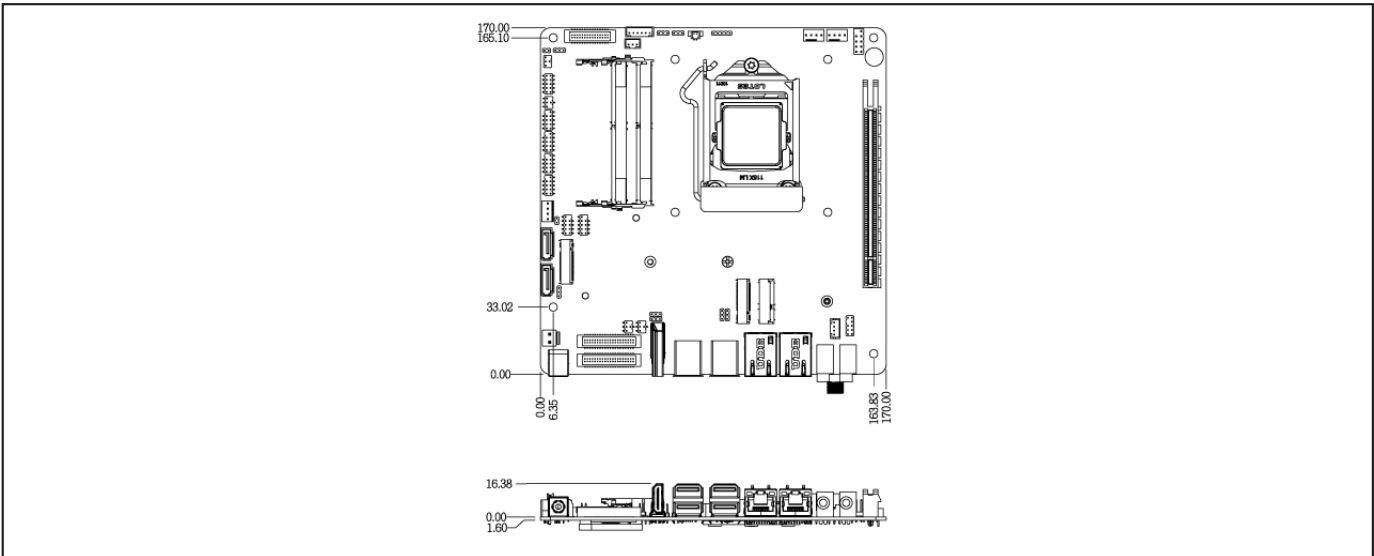
Packing List

PART NUMBER	DESCRIPTION	QTY
—	MTX-CFL1-H31000A1/ MTX-CFL1-H31002A1 (TPM2.0) M/B	1
F04-MB-075-2F	I/O shield	1
G01-COM-H2M22-1F	COM Cable	2
G01-SATA3-BL-1F	SATA Cable	1

Specifications

SYSTEM	
MB FORM FACTOR	Mini-ITX
CPU	Intel® LGA1151 8/9th Gen Socket Processor (Formerly Coffee Lake-S, TDP 65W) For additional compatible CPUs, please contact regional sales
CHIPSET	Intel® Coffee Lake H310
MEMORY	2 x DDR4 2666 MT/s Dual Channel SO-DIMM, up to 64GB
BIOS	AMI 128Mb Flash ROM
WAKE ON LAN	Yes
WATCHDOG TIMER	255 Levels
SECURITY	Intel® PTT (Integrated fTPM) & TPM 2.0 (dTPM)
RTC BATTERY	Lithium Battery
DIMENSION (W x D)	170.0 (W) x 170.0 (D) mm (6.7" x 6.7")
OS SUPPORT	Windows® 11 (64bit), Windows® 10 (64bit), Linux, Windows® 7 (64bit)
POWER	
POWER REQUIREMENT	DC-in 12-36V
POWER ON MODE	AT / ATX
CONNECTOR	DC Jack Internal 2-pin Header
DISPLAY	
GPU	Intel® HD Graphics, shared Memory
LVDS	1 x LVDS (Max. Resolution: 2560 x 1600 @60Hz, co-layout eDP)
eDP	2 x eDP (Max Resolution: 2560 x 1600@60Hz)
HDMI®	1 x HDMI® (Max.Resolution: 3840 x 2160@30Hz)
MULTIPLE DISPLAY	Support 2 Displays
AUDIO	
CODEC	Realtek ALC897
Line-out	1 x Audio Jack for Line-out
MIC-in	1 x Audio Jack for MIC-in
AMPLIFIER	3W
LAN	
ETHERNET	1 x RJ45 for Intel® I210-AT GbE 1 x RJ45 for Intel® I219-V GbE
USB PORT	
USB	Internal Header for 4 x USB 2.0 4 x USB 3.0
SERIAL PORT	
COM	Internal Header for 1 x RS-232/422/485 Internal Header for 3 x RS-232
INTERNAL I/O	
GPIO	8-Bit (5V)
SMBUS	Yes
I2C	Yes
FAN	1 x CPU Fan Header (Smart Fan) 1 x System Fan Header (Smart Fan)
FRONT PANEL	Storage Activity LED, Power LED, Power On/Off, Reset
ADDITIONAL	1 x Chassis intrusion 1 x AT Mode Selection 1 x Inverter (PH2.0) 1 x 4pin Speaker header 1 x Audio Header
STORAGE	
SATA	2 x SATA III (6.0Gb/s) 1 x SATA Power Connector
EXPANSION	
PCIe	1 x PCIe Gen 3 x16
M.2	1 x E-Key 2230 (USB 2.0/PCIe x1) Support Wi-Fi/BT 1 x B-Key 3042 (PCIe x1/USB2.0) Support 4G Module 1 x M-Key 2242/2280 (PCIe 3.0 x4) Support NVMe
SIM	1 x SIM Card Slot
ENVIRONMENT & CERTIFICATION	
OPERATING TEMPERATURE	0°C - 60°C (32°F - 140°F)
STORAGE TEMPERATURE	-20°C - 70°C (-4°F - 158°F)
OPERATING HUMIDITY	10 - 90% @ 40°C, Non-condensing
CERTIFICATION	CE/FCC Class A
ESG DECLARATION	EU RoHS, China RoHS, REACH

Dimension Unit: mm



Ordering Information

PART NUMBER	MTX-CFL1-H31000A1	MTX-CFL1-H31002A1
CPU	Intel® Socket LGA1151 CPU	Intel® Socket LGA1151 CPU
SECURITY	Intel® PTT (Integrated TPM)	TPM 2.0 (dTPM)