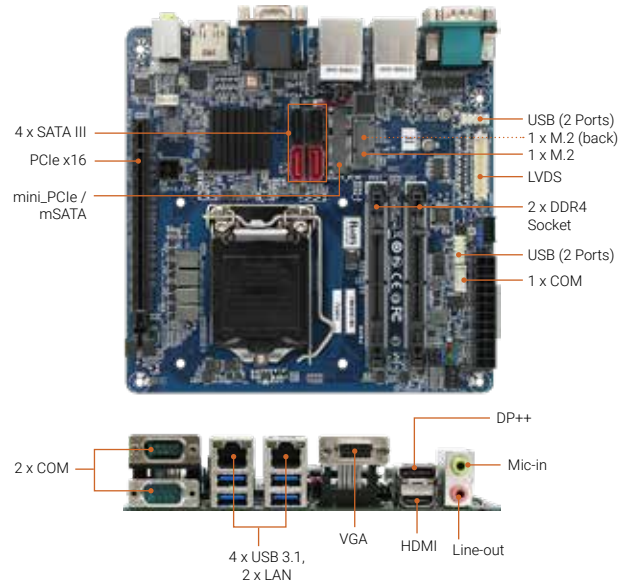


Features

- Socket LGA 1151 supports 8th/9th Generation Intel® Core™/ Pentium®/ Celeron® Processors*
- Intel H310 PCH
- 2 x SoDIMM supports up to 32GB Dual Channel DDR4 2400 MHz System Memory
- Rich Expansion Interface: 1 x PCIe x16, 2 x M.2, 1 x mini-PCIe with mSATA Support
- Display Interface: 1 x HDMI, 1 x DP++, 1 x VGA, 1 x LVDS
- 4 x USB 3.1 Gen 1 Ports, 4 x USB 2.0
- 3 x COM, 4 x SATA III
- ATX Power Input
- TPM 2.0



Specifications

System	
CPU	Supports 8th Gen LGA1151 Intel® Core-i™, Pentium, and Celeron processors* up to 65W TDP Supports 9th Gen LGA1151 Intel® Core-i™, Pentium, and Celeron processors* with 6 cores or less & up to 65W TDP Supports 8 Core 9th Gen LGA 1151 Intel® Core-i™ processors* up to 35W TDP * Processor lccMax <= 138A.
System Chipset	Intel® H310 PCH
System Memory	2 x SoDIMM Up to 32GB Dual Channel DDR4 2400MHz Horizontal Type Memory Sockets
Audio	Realtek HD Audio support 7.1 channel sound playback
Ethernet	LAN1: Intel® I211-AT Gigabit Ethernet LAN2: Intel® Intel® I219-V Gigabit Ethernet
BIOS	AMI® UEFI 128Mb SPI BIOS
Expansion	1 x PCIe x 16 Slot 1 x M.2 Type M 2260, 2280 Slot (with PCIe x2 & SATA III) 1 x M.2 Type A/E 2230 (with USB & PCIe x1) 1 x Full Size mini-PCIe with mSATA Support
Watchdog Timer	Reset: 1 sec. ~ 255min. and 1sec. or 1min./step
H/W Status Monitor	Monitoring System Temperature, Voltage, with Auto Throttling Control
TPM	Infineon® SLB 9665 TPM 2.0 Controller
Supported OS	Win 10
Display	
Chipset	Intel® Integrated HD Graphic (CPU Dependent)
# of Display	Dual Display via HDMI, DisplayPort (supports DP++), VGA, and/or LVDS
External I/O	
Display	1 x HDMI 1 x DisplayPort (supports DP++) 1 x VGA
USB	4 x USB 3.1 Gen 1 Ports
LAN	2 x RJ45
Audio	1 x Line-out, 1 x Mic-in
COM	2 x RS-232/422/485 COM Ports

Internal I/O	
LVDS	1 x LVDS Header 1 x Backlight Locking Type Header
USB	2 x USB 2.0 Headers with Shroud (4 Ports Total)
COM	1 x RS-232 Headers
SATA	2 x SATA III Connectors (Red) 2 x SATA III Connectors (Black) (Shared with mSATA/M.2)
I2C	1 x I2C
MIO	1 x SMBus Header, 1 x Front Audio Header, 1 x Front Panel Header with Shroud, 1 x 8-bits GPIO Header with Shroud, 1 x Chassis Intrusion Locking Type Header, 1 x Onboard Buzzer, 1 x Cable Type CMOS Battery, 1 x 4 Pin CPU Fan Header, 1 x 4 Pin Chassis Fan Header

Mechanical & Environment	
Power & Connector	1 x Standard 24 pin ATX Connector 1 x 4 pin ATX 12 Connector AT/ATX Mode Jumper
Operating Temp.	0°C ~ 60°C (32°F ~ 140°F)
Storage Temp.	-20°C ~ 80°C (-4°F ~ 176°F)
Operating Humidity	5% ~ 90% Relative Humidity, Non-condensing
Storage Humidity	5% ~ 90% Relative Humidity, Non-condensing
Form Factor	Mini ITX
Dimensions	6.7" (L) x 6.7" (W)
Certification Information	CE, FCC Class B
Weight	0.88 lbs

Ordering Info	
MX310H	Intel® H310 Mini ITX Motherboard with ATX Power
Accessories	1 x I/O Shield

* All product specifications and images are subject to change without notice. Last update: 2021/06/11