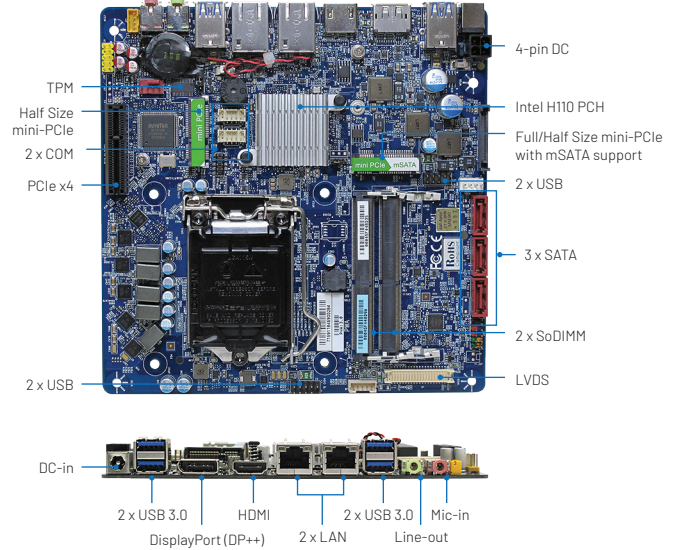


## Features

- Thin mini-ITX, Low Profile Design
- Intel LGA1151 socket supports 6th/7th generation 14nm Intel Kaby Lake<sup>1</sup> / Skylake Core i7/i5/i3 and Celeron processors
- Intel® H110 Express Chipset
- 2 x So-DIMM sockets support up to 32 GB DDR4 2133MHz 2 x Gigabit Ethernet
- 1 x HDMI, 1 x DisplayPort (DP++), 1 x LVDS, Optional eDP
- 3 x SATA III, 2 x COM
- 4 USB 3.0, and 4 USB 2.0
- TPM 2.0
- 1 x Full and Half Size mini-PCIe with mSATA Support, 1 x Half-Size mini-PCIe, 1 x PCIe x4
- 12V ~ 24V DC Input
- Kaby Lake processors support OS Win 10 and above; support Win 7 with external video cards



## Specifications

System	
<b>CPU</b>	Intel LGA1151 socket supports 6th/7th generation 14nm Intel Kaby Lake <sup>1</sup> / Skylake Core i7/i5/i3 and Celeron processors
<b>System Chipset</b>	Intel® H110 PCH
<b>System Memory</b>	2 x 260-pin So-DIMM sockets support up to 32 GB Dual Channel DDR4 @ 1.2V, 2133MHz Non-ECC memory modules
<b>Audio</b>	Realtek® ALC888S
<b>Ethernet</b>	LAN1: Intel® I219 Gigabit Ethernet Controller LAN2: Intel® I210 Gigabit Ethernet Controller
<b>BIOS</b>	AMI UEFI BIOS 16MB (128Mb) Flash ROM
<b>I/O Chip</b>	Nuvoton® NCT6104D or Equivalent
<b>Expansion</b>	1 x PCIe 3.0 x4 Slot 1 x Full/Half Size mini-PCIe with mSATA Support (SATA III) 1 x Half Size mini-PCIe
<b>TPM</b>	TPM 2.0
<b>Watchdog Timer</b>	Reset: 1 sec. ~ 255min. and 1sec. or 1min./step
<b>H/W Status Monitor</b>	Monitoring System Temperature, Voltage, with Auto Throttling Control
Display	
<b>Graphics Engine</b>	Intel® Integrated HD Graphic (CPU Dependent)
<b>Display Memory</b>	Shared Memory
<b>Interfaces</b>	1 x DisplayPort (DP++), 1 x HDMI, 1 x LVDS, Optional eDP
<b>Multiple Display</b>	Supports Dual Display
External I/O	
<b>Audio</b>	Line-out, Mic-in
<b>USB</b>	4 x USB 3.0
<b>LAN</b>	2 x RJ-45 Gigabit LAN
<b>HDMI</b>	1 x HDMI
<b>DisplayPort</b>	1 x DisplayPort (supports DP++)
<b>DC-in</b>	1 x DC-in

Ethernet	
<b>LVDS</b>	1 x LVDS Header
<b>USB</b>	2 x USB 2.0 Headers (4 Ports Total)
<b>COM</b>	2 x RS-232
<b>SATA</b>	3 x SATA III Connectors
<b>DC-in</b>	1 x 4-pin DC-in
<b>MIO</b>	1 x Front Audio, 1 x Amplifier Locking Type Header, 1 x Front Panel, 1 x Backlight Locking Type Header, 1 x Cable Type CMOS Battery, 1 x 4 Pin CPU Fan Header, 1 x 4 Pin Chassis Fan Header, 1 x 4 Pin DC-In Connector

Mechanical & Environment	
<b>Power Type</b>	12V ~ 24V DC Input
<b>Operating Temp</b>	0°C ~ 60°C
<b>Storage Temp</b>	-20 ~ 60°C
<b>Operating Humidity</b>	5% ~ 80% Relative Humidity, Non-condensing
<b>Storage Humidity</b>	20% ~ 90% Relative Humidity, Non-condensing
<b>Form Factor</b>	Mini ITX
<b>Dimensions</b>	6.7" (L) x 6.7" (W)
<b>Certification Information</b>	CE, FCC Class B
<b>Weight</b>	0.88 lbs

Ordering Info	
<b>MX110HD</b>	Intel H110 Low Profile mini-ITX Motherboard with DC Input
<b>Accessory Included</b>	1 x Low Profile I/O Shield, 1 x Regular I/O Shield, 1 x SATA Power Cable

\* All product specifications and images are subject to change without notice. Last update: 2021/06/24