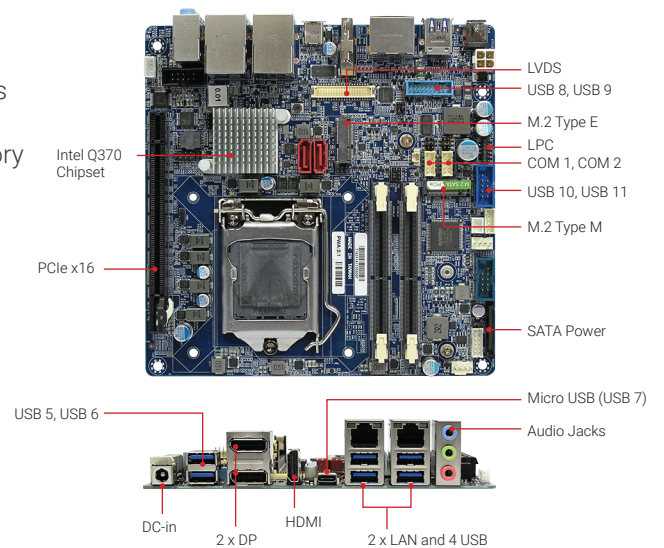


Features

- LGA1151 Socket supports 8th Gen Intel® Coffee Lake Processors
- High Reliability Gold Plating Connectors*
- 2 x SoDIMM support up to 32 GB DDR4 2400 MHz System Memory
- Rich Expansion Interfaces: PCIe x16, M.2 Type M and Type A/E
- Supports Triple Display via 1 x HDMI, 2 x DP and/or LVDS
- 4 x USB 3.1 Gen 1
- 4 x USB 3.1 Gen 2
- 1 x USB 3.1 Gen 2 Type-C
- 2 x USB 2.0
- 2 x COM Ports, 2 x SATA III
- Supports TPM 2.0



Specifications

System	
CPU	LGA1151 Socket supports Intel® Coffee Lake Core i, Pentium, Celeron Processor up to 65W TDP
System Memory	2 x Gold Plated SoDIMM up to 32GB Dual Channel DDR4 2400MHz Vertical Type Memory Sockets
BIOS	AMI® UEFI 256Mb SPI BIOS
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec.
H/W Status Monitor	Monitoring System Temperature and Voltage with Auto Throttling Control
Expansion	1 x PCIe x16 Slot (From CPU) (Gold Plated) 1 x M.2 Type M 2242, 2280 Slot (with USB, PCIe x4 & SATA III) (Gold Plated) 1 x M.2 Type A/E 2230 (with USB & PCIe x2) (Gold Plated)
TPM	Infineon® SLB 9665 TPM 2.0 Controller
Supported OS	Win 10, Win 8, Linux
External I/O	
Display	1 x HDMI Vertical Type Connector (Gold Plated) 2 x DisplayPort Connector (Gold Plated)
LAN & USB	2 x RJ45 & Dual USB 3.1 Gen 2 (Stacked)
USB	2 x USB 3.1 Gen 1 Ports 1 x USB Type-C (USB 3.1 Gen 2 Speed)
Audio	1 x 3 Jacks Audio Connector (30mm Height)
DC-in	1 x DC-In Jack (Gold Plated)
Internal I/O	
SATA	2 x SATA III 1 x SATA Power Connectors (Gold Plated)
USB	1 x USB 2.0 2.54mm Headers with Shroud (2 Ports) (Gold Plated) 1 x USB 3.1 Gen 1 Header with Shroud (2 Ports) (Gold Plated)
COM	1 x RS-232/422/485 Headers (with Voltage Selection) 1 x RS-232 Headers (with Voltage Selection)
LVDS	1 x LVDS Header, 1 x Backlight Locking Type Header
MIO	1 x LPC, 1 x SPI, 1 x Front Audio, 1 x Amplifier, 1 x Front Panel, 1 x 8-bit GPIO, 1 x Chassis Intrusion Locking Type Header, 1 x Cable Type CMOS Battery, 1 x 4 Pin CPU Fan, 1 x 4 Pin Mini-Fit Jr DC-in Connector (Gold Plated)

Audio	
Chipset	Realtek® ALC892 or ALC887
Amplifier	3 Watts Per Channel Amplifier
Ethernet	
LAN 1	Intel® I211-AT Gigabit Ethernet
LAN 2	Intel® I219-LM Gigabit Ethernet
Mechanical & Environment	
Power Requirement	12V-24V Wide Range DC-In
Operating Temp.	0°C ~ 60°C (32°F ~ 140°F)
Storage Temp.	-20°C ~ 80°C (-4°F ~ 176°F)
Op. Humidity	5% ~ 90% Relative Humidity, Non-condensing
Dimensions	6.7" x 6.7" (170x170mm)
Certification	CE, FCC Class B
Weight	0.88 lbs

* All product specifications and images are subject to change without notice. Last update: 5/23/2018