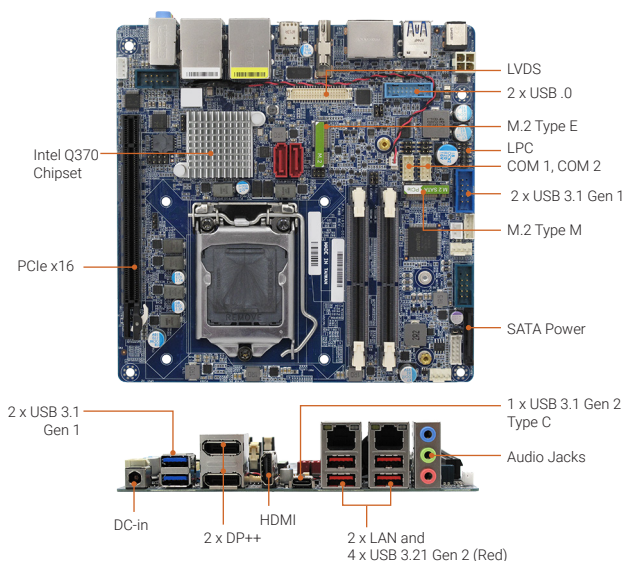


## Features

- High Reliability Gold Plating Connectors
- Socket LGA 1151 supports 8th/9th Generation Intel® Core™/Pentium®/ Celeron® Processors\*
- 2 x SoDIMM support up to 32 GB DDR4 2400 MHz System MemoryRich 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	Supports 8th Gen LGA1151 Intel® Core-i™, Pentium, and Celeron processors* up to 65W DP. 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® Q370 PCH
System Memory	2 x Gold Plated SoDIMM up to 32GB Dual Channel DDR4 2400MHz Vertical Type Memory Sockets
Audio	Realtek ALC888S
Ethernet	LAN1: Intel® I219-LM Gigabit Ethernet Controller LAN2: Intel® I211-AT Gigabit Ethernet Controller
BIOS	AMI® UEFI 256Mb SPI BIOS
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)
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, Win 8, Linux
Intel® Advanced Technologies	Intel® Rapid Storage Technology for PEI Express Storage Intel® Active Management Technology (Intel® AMT) Intel® Optane Memory Support Intel® Smart Sound Technology Intel® High Definition Audio (Intel® HD Audio) Intel® Platform Trust Technology (Intel® PTT)
External I/O	
Display	1 x HDMI Vertical Type Connector (Gold Plated) 2 x DisplayPort Connector (supports DP++) (Gold Plated)
LAN & USB	2 x RJ45 & Dual USB 3.1 Gen 2 (Stacked)
USB	2 x USB 3.1 Gen 1 Ports and 1 x USB 3.1 Gen 2 Type C
Audio	1 x 3 Jacks Audio Connector (30mm Height)
DC-in	1 x DC-In Jack (Gold Plated)



Internal I/O	
LVDS	1 x LVDS Header, 1 x Backlight Locking Type Header
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)
SATA	2 x SATA III
MIO	1 x SATA Power Connectors (Gold Plated)
Display	
Chipset	Intel Core i7/i5/i3 Processors: Intel® UHD Graphics 630 Intel Celeron/Pentium Processors: Intel® UHD Graphics 610 * Graphic performance will depend on which processor you use with this motherboard.
Resolution	HDMI Max Resolution: 4096x2160@24Hz DP Max Resolution: 4096x2304@60Hz LVDS Max Resolution: 1920x1200@60Hz  * Max resolution depends on how many displays are active One Panel Display: 4096 x 2304 @ 60 Hz Two Panel Displays Concurrently: 2880 x 1800 @ 60 Hz Three Panel Displays Concurrently: 2304 x 1440 @ 60 Hz
Capability	Supports 3 Independent Displays
Mechanical & Environment	
Power Type	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
Storage Humidity	5% ~ 90% Relative Humidity, Non-condensing
Form Factor	Mini ITX
Dimensions	6.7" (L) x 6.7" (W)
Certification	CE, FCC Class B
Weight	0.88 lbs

\* All product specifications and images are subject to change without notice. Last update: 2020/12/14