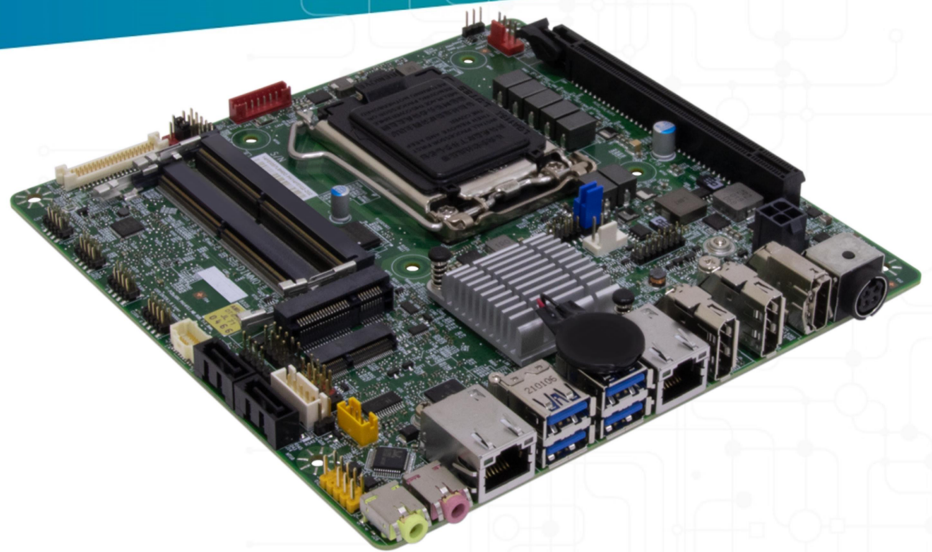


Intel® Coffee Lake-R 8/9th Processor with Q370 Chipset Mini-ITX



Extended
Temperature
+85°C
-40°C

CPU Full Speed



MINI-ITX COMPUTER

- Support 8/9th Intel® Core™ i9/i7/i5 Coffee Lake LGA1151 Socket Processor
- Intel® Q370 Chipset
- Intel® vPro technology support
- 2 x DDR4 SO-DIMM up to 64GB
- Support triple display for HDMI, DisplayPort and LVDS
- 1 x M.2 2280M-key (NVME), 1 x M.2 2230 E-key (CNVi), 1 x mPCIe Full size, 1 x PCIe X16
- 2 x Intel® Gigabit Ethernet
- 12V DC input
- Operating Temperature : ET : -20°C ~ 70°C ; UT : -40°C ~ 85°C

Specifications

SYSTEM

CPU	9th & 8th Gen Intel Coffee Lake LGA1151 Socket Processor, Core i7/i5/i3 6-core TDP Max. 95W, Core i9 8-core TDP Max 35W
System Memory	DDR4 2666MHz, 2 x 260-pin SO-DIMM, Max. 64GB (Non-ECC)
Chipset	Intel Q370 (Support RAID 0 / 1) support vPro
Graphics	Intel® HD Graphics
I/O Chipset	Nuvoton NCT6116D
TPM	TPM Header
BIOS	AMI BIOS / 256 Mbit SPI
H/W Monitor	Temperature Monitor / Voltage Monitor / Fan Monitor
Watchdog Timer	1~255 steps by software program

EXPANSION SLOT

M.2	1 x M.2 2230 E key(PCIe / USB) / 1 x M.2 2260 / 2280 M key (Gen3 PCIeX4, SATAIII)
Mini PCIe	1 x Mini PCIe Full size (PCIe / USB / SATAIII)
PCIe Slot	1 x PCIe 3.0 X16 slot

DISPLAY

HDMI	Up to 4K (4096 x 2160) @30 Hz
Dsisplayport	Up to 4K (4096 x 2304) @60 Hz
LVDS	Up to 1920 x 1200 @60 Hz

ETHERNET

Chipset	Intel® I219-LM Giga LAN + Intel® I210-AT Giga LAN
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AUDIO

Codec	Realtek® ALC662
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REAR I/O

USB	4 x USB 3.0
Display I/O	1 x HDMI 1.4 / 2 x DisplayPort 1.2
Audio I/O	1 x Mic-in / 1 x Line-out
LAN	2 x RJ-45

Power	1 x DIN – 4pin DC Jack
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INTERNAL I/O

Storage	2 x SATAIII
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USB	5 x USB 2.0
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Display I/O	1 x LVDS / 1 x Backlight Connector
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Audio I/O	1 x Speaker 2W
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Serial Port	4 x RS232 (two supports RS232/422/485 select by BIOS)
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GPIO	1 x MiAPI Header (Programmable)
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Fan	1 x 4-pin CPU Fan Header / 1 x 4-pin System Fan Header
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Power	1 x ATX 4-pin Power Connector, 1 x AT / ATX Mode Select Jumper
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Others	1 x Front Audio Header (Mic-in / Line-out), 1 x CMOS Jumper, 1 x panel power select header, 1 x backlight power select header, 1x buzzer header
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ENVIRONMENTAL

Form Factor	Mini ITX
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Power Type	DC-in 12V DIN 4-pin connector / ATX 4pin 12V
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Dimension	170 mm x 170mm
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Operating TEMP.	ET : -20 ~ 70°C
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	UT : -40 ~ 85°C
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Storage TEMP.	-40 ~ 85°C (-40 ~185°F)
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Relative Hum.	10% ~ 95% R/H (Non-condensing)
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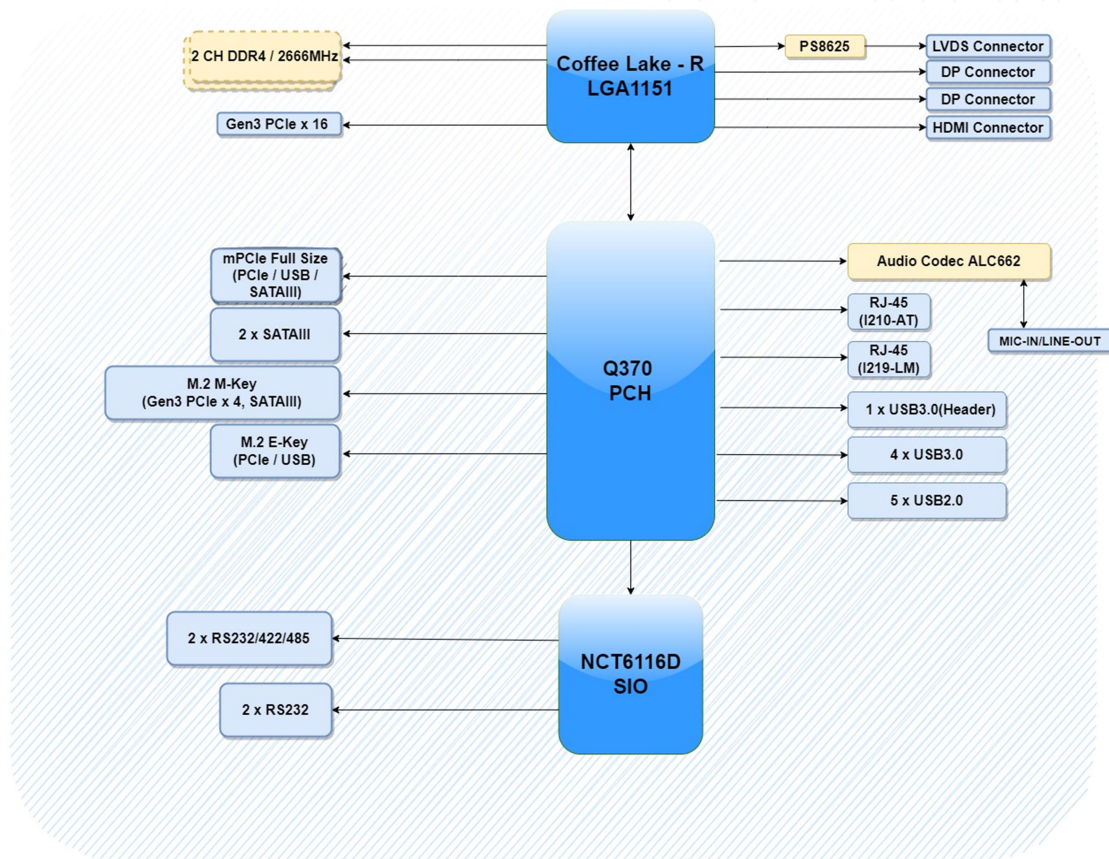
STANDARD COMPLIANCE

Standard Compliance	CE/FCC
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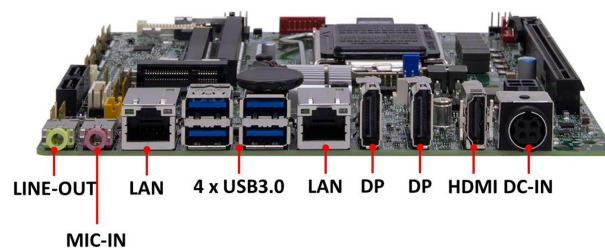
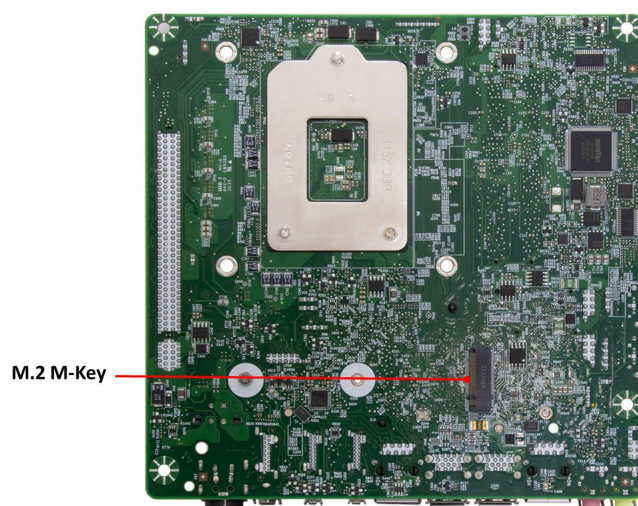
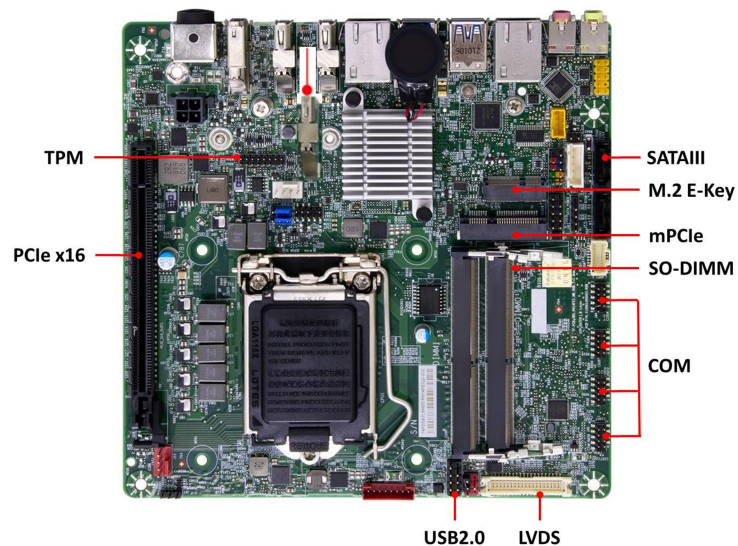
OS

OS Support	Windows®10 64-bit Linux(Support by request)
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Block Diagram



Dimension



Ordering Information

Model	CPU	PCH	Expansion	USB3.0/2.0	System Power Input	Operation Temp.
INS8365B-ET	8/9 th LGA 1151 (Up to 95W)	Q370	1 x M.2 M-Key 2260/2280	4/5	DC 12V	-20 to 70°C
INS8365B-UT			1 x M.2 E-Key 2230 1 x mPCIe Full Size 1 x PCIe16 Slot			-40 to 85°C