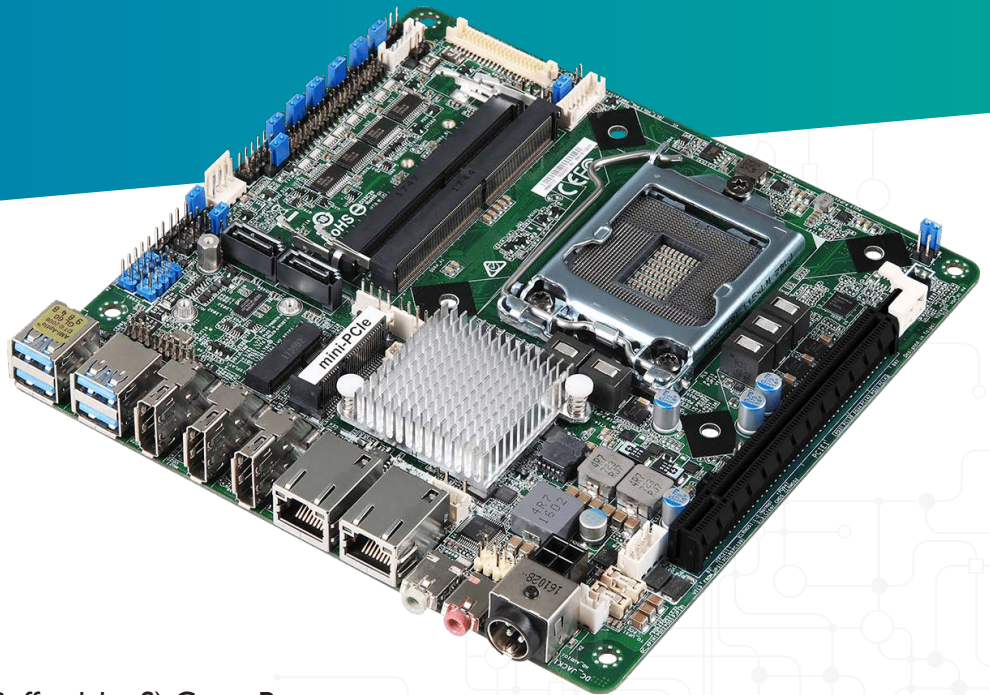


# Intel® 8th Gen. Coffee lake-S Processor Mini ITX Motherboard with Q370 Express Chipset



- Supports Intel® 8th Gen (Coffee lake-S) Core. Processors
- Supports Dual Channel DDR4 SODIMM 2400/2666, up to 32GB
- 3 x Displayport, 1 x eDP, 1 x Dual Channel 24-bit LVDS
- 4 x USB 3.1, 4 x USB 2.0, 2 x SATA, 4 x COM
- 1 x PCIe x16, 1 x mini-PCIe, 2 x M.2 Expansion Slot
- 2 x Intel Gigabit Ethernet
- 12V/19~28V DC-in
- Extended operating temp. -20~+70°C



Extended  
Temperature  
70°C  
-20°C

## INS8365A

System	
Processor	LGA1151 for Intel® 8th Gen. Core™ i7 /i5 / i3 processors, TDP 65W max.)
PCH	Q370
Memory Type	2 x SO-DIMM up to DDR4 32GB
Watchdog	1-255 sec
mini PCIe	1 x (PCIex1, USB 2.0)
M.2 Slot	1 x 2230 (PCIex1, USB 2.0) 1 x 2242/2260/2280 (PCIex4, SATA3)
Expansion Slot	1 x PCIex16
Display	
Chipset	Intel® HD Graphics Gen9 Engines with Low power 16 execution unit, supports DX11.3/12, OpenGL 4.3/4.4/4.5 and OpenCL1.2/2.0/2.1
DisplayPort	Resolution up to 4096x2304@60Hz
eDP	Resolution up to 4096x2304@60Hz
LVDS	Dual Channel 24-bit, max resolution up to 1920x1200@60Hz
Ethernet	
Chipset	1 x Intel I210-AT, 1 x I219-LM GbE
Power Requirements	
Power Type	12V/19~28V DC-in
Audio	
Codec	Realtek ALC887

Rear I/O	
DisplayPort	3
Ethernet	2 x RJ45
USB	4 x USB 3.1
Audio	1 x Line-Out, 1 x MIC-In
DC-IN	1
Internal I/O	
SATA	2 x SATAIII (6Gb/s)
COM	2 x RS232, 2 x RS232/422/485
eDP	1
LVDS	1
TPM	1
USB	4 x USB2.0
GPIO	4 x GPI, 4 x GPO
Mechanical and Environment	
Form Factor	Mini-ITX
Power Type	12V/19~28V DC-in
Dimension	170mm x 170mm
Operating Temp.	-20 to 70°C
Storage Temp.	-40 to 85°C
Relative Humidity	10% to 90%, non-condensing

## Ordering information

### INS8365A

**Intel® Coffee lake-S LGA1151 with Q370 chipset, 3 x DP/ 1 x eDP/ 1 x LVDS, PCIe X16, 2 M.2 Slot, 2 Gigabit LAN, 2 SATA, 4 COM, DC 12V/19~28V Input**

Note: Specifications are subject to change without prior notice