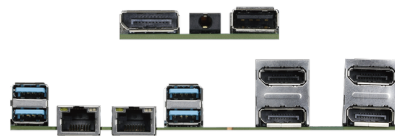
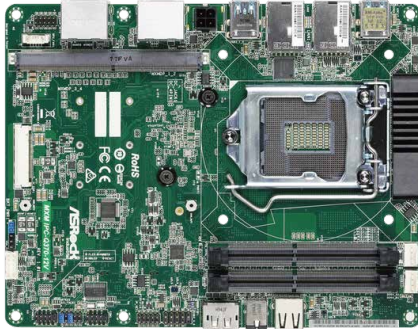


# MXM IPC-Q370-12V

Micro-STX Motherboard



## KEY FEATURES

- Intel® 9<sup>th</sup>/ 8<sup>th</sup> Gen (Coffee Lake-S) Core™ Processors with Q370 chipset
- 2 x 260-pin SO-DIMM up to 64GB DDR4 2666 MHz (32GB per DIMM)
- 1 x MXM with PCIe x16 Lanes (Gen3), 4 x USB 3.1 Gen1, 3 x USB 2.0, 2 x M.2 Key M, 1 x M.2 Key E, 1 x COM, 2 x SATA3
- 2 x Intel Gigabit LAN
- Supports Hexa Display, 5 x DP 1.2, 1 x VGA, 1 x eDP
- TPM Header
- Supports Intel® vPro, AMT, RAID 0/1
- 12V DC-In (4-pin plug PWR cable for maximum 200 watt DC input)

## SPECIFICATIONS

### Form Factor

Dimensions	Micro-STX (5.8-in x 7.4-in)
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### Processor System

CPU	Intel® 9 <sup>th</sup> / 8 <sup>th</sup> Gen (Coffee Lake-S) Core™ Processors
Chipset	Intel® Q370
Socket	LGA1151
BIOS	AMI SPI 128 Mbit

### Memory

Technology	Dual Channel DDR4 2666 MHz
Capacity	64GB* * Intel Core i9/i7/i5 CPUs support up to 64GB (32GB per DIMM) Intel Core i3/Pentium/Celeron CPUs support up to 32GB (16GB per DIMM)
Socket	2 x 260-pin SO-DIMM

### Graphics

Controller	Intel® Gen9 Graphics DX 11/12
HDMI	N/A
DisplayPort	DisplayPort 1.2, DP++ Max resolution up to 4096x2304@60Hz
VGA	Max resolution up to 1920x1200@60Hz
LVDS	N/A
eDP	eDP 1.4 Max resolution up to 4096 x 2304@60Hz
DVI	N/A
MultiDisplay	Hexa Display

### Expansion Slot

MXM	1 x MXM with PCIe x16 Lanes (Gen3) Supports NVIDIA Quadro P5000 & GTX Series (Type A/Type B/ Type B+)
PCI	N/A
mini-PCIe	N/A
M.2	1 x M.2 (Key E, 2230) with PCIe x1, CNVi and shared USB 2.0 for Wireless
SIM Socket	N/A

### Audio

Interface	Realtek ALC233, High Definition Audio.
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### Ethernet

Controller/ Speed	LAN1: 1 x Intel® I210 with 10/100/1000 Mbps LAN2: 1 x Intel® I219LM with 10/100/1000 Mbps, supports AMT/vPro
Connector	2 x RJ-45

### Front I/O

HDMI	N/A
DisplayPort	1 x DP 1.2
USB	1 x USB 2.0
Audio	1 (Mic-in, Line-out)

### Rear I/O

HDMI	N/A
DisplayPort	4 x DP 1.2
VGA	N/A
DVI	N/A
Ethernet	2 x 1 Gigabit LAN
USB	4 x USB 3.1 (Gen1)
Audio	N/A
COM	N/A
PS2	N/A

### Internal Connector

USB	2 x USB 2.0 (2 x 2.54 pitch header)
COM	COM1(RS-232)
Parallel	N/A
GPIO	N/A
TPM	TPM Header
LVDS	N/A
eDP	1
VGA	1
SATA PWR Output	N/A
Speaker Header	N/A

### Storage

M.2	2 x M.2 (Key M, 2242/2260/2280) with PCIe x4 & SATA3 for SSD
mSATA	N/A
SATA	2 x SATA3 (6Gb/s)
RAID	Intel® SATA RAID 0/1
eMMC	N/A

### Watchdog Timer

Output Interval	From Super I/O to drag RESETCON# 256 Segments, 0, 1, 2, ...255sec
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### Power Requirements

Input PWR Power On	12V DC-In (4-pin plug PWR cable for maximum 200 watt DC input) AT/ATX Supported - AT : Directly PWR on as power input ready - ATX : Press button to PWR on after power input ready
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### Environment

Operating Temp	0°C ~ 60°C
Storage Temp	-40° C ~ 85° C
Operating Humidity	5% ~ 90%
Storage Humidity	5% ~ 90%

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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