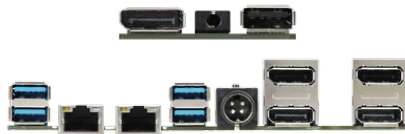
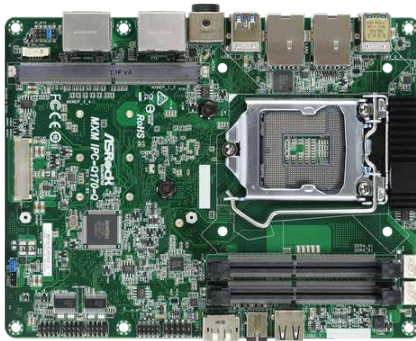


MXM IPC-Q170-Q

Micro-STX Motherboard



KEY FEATURES

- Supports Intel® 7th/ 6th Gen (Kabylake-S/Skylake-S) i7/Core™ i5/Core™ i3/ Pentium®/Celeron® Processors (LGA1151)
- Supports MXM Graphics Card (Type-A or Type-B , Up to 150W)
- Supports DDR4 SO-DIMM 2400, up to 32GB
- 5 x DisplayPort (1 from CPU, 4 from MXM)
- 4 x USB 3.0, 3 x USB 2.0, 2 x COM (RS232 only)
- 3 x M.2 (1 x Key E, 2 x Key M=>R1.04)
- 2 x Intel 1 Gigabit LAN
- 1 x TPM Header
- Supports Intel® vPro, AMT, RAID 0/1/5/10
- DC 19V Input (220W for Quadro P5000, GTX1060/1070, 270W for GTX1080)

SPECIFICATIONS

Form Factor

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

CPU	Intel® 7 th / 6 th Gen (Kabylake-S/Skylake-S) Core. Processors, up to 65W
Chipset	Intel® Q170
Socket	LGA1151
BIOS	AMI SPI 128 Mbit

Memory

Technology	Dual Channel DDR4 2400 MHz
Capacity	32GB (16 GB per DIMM)
Socket	2 x 260-pin SO-DIMM

Graphics

Controller	Intel® Gen8 Graphics DX 11,OGL3.2
HDMI	N/A
DisplayPort	1 x Supports max resolution up to 4K@60Hz (CPU integrated graphics) 4 x Supports max resolution up to 4K@60Hz (MXM Graphics Card)
LVDS	N/A
DVI	N/A
MultiDisplay	Penta Display

Expansion Slot

mini-PCIe	1x Full size with PCIe x1 and USB 2.0
M.2	1 x M.2 (Key E, 2230) with PCIe x1, USB 2.0 and CNVi for Wireless

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

DisplayPort	1 (CPU integrated graphics)
USB	1 x USB2.0 Type-A
Audio	1 (Mic-in or Line-out)

Rear I/O

HDMI	N/A
DisplayPort	4 x DP1.2 (for VGA card)
VGA	N/A
DVI	N/A
Ethernet	2 x 1 Gigabit LAN
USB	4 x USB 3.0
Audio	N/A
COM	N/A
DC Jack	1

Internal Connector

USB	2 x USB2.0 (1 x 2.54 pitch header)
COM	2 x COM(RS-232)
Parallel	N/A
GPIO	N/A
TPM	TPM Header

Storage

M.2	1 x M.2 (KEY M, 2242/2260/2280) with PCIe x4 and SATA3 1 x M.2 (KEY M, 2242/2260/2280) with SATA or PCIe x4
mSATA	N/A
SATA	2 x SATA3.0 (6.0 Gb/s)
RAID	Intel® SATA RAID 0/1/5/10
eMMC	N/A

Watchdog Timer

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

Power Requirements

Input PWR	19V DC-In Jack (220W for Quadro P5000, GTX1060/1070, 270W for GTX1080)
Power On	AT/ATX Supported - AT : Directly PWR on as power input ready - ATX : Press button to PWR on after power input ready

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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