MXM IPC-Q170-Q
Micro-STX Motherboard

Spotlight Features

- Supports Intel® 7th/ 6th Gen (Kabylake-S/Skylake-S) Core™ Processors (Socket 1151)
- Supports MXM Graphics Card (Type-B , Up to 150W)
- Supports DDR4 SO-DIMM 2400, up to 32GB
- 5 x DisplayPort (1 from CPU, 4 from MXM), 1 x eDP (From CPU)
- 4 x USB 3.0, 3 x USB 2.0, 2 x COM
- 3 x M.2 (1 x Key E, 2 x Key M)
- 2 x Intel LAN
- 1 x TPM Header
- DC 19V Input (220W for Quadro P5000)

Specifications

Form Factor

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

Processor System

CPU	Supports Intel® 7th/ 6th Gen (Kabylake-S/Skylake-S) Core™ Processors (Socket 1151)
Chipset	Intel® Q170

Expansion Slot

PCIe	N/A
Mini-PCIe	N/A
MXM slot	1
M.2	1 x M.2 (KEY E, 2230) with PCIe x1 and USB 2.0 for Wireless
	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

Memory

Technology	Dual Channel DDR4 2400 MHz
Max.	32GB
Socket	2 x SO-DIMM

Graphics

Controller	- CPU integrated graphics to support 1 x DP + 1 x eDP (Gen9 Intel Graphics, Support for DirectX 11/12, OpenCL 2.0) - Add on MXM Graphic Card (Type B) to support 4 x DP - NVIDIA Quadro series P5000
VGA	N/A
LVDS	N/A
eDP	Supports max resolution up to 4K@60Hz
HDMI	N/A
DVI	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)
Multi Display	Hexa Display

Ethernet

Ethernet	10/100/1000 Mbps
Controller	1 x Intel® I219LM + 1 x Intel® I210

Front I/O

USB	1 x USB 2.0
DisplayPort	1
Audio	1 (Mic-In & Line-Out Combo)

Rear I/O

VGA	N/A
DVI	N/A
HDMI	N/A
DisplayPort	1 (CPU integrated graphics)
Ethernet	2
USB	4 x USB 3.0
Audio Jack	N/A
Serial	N/A
PS/2	N/A

Internal Connector

USB	2 x USB 1.1/2.0 (1 x 2.54 pitch header)
LVDS	N/A
eDP	1
VGA	N/A
Serial	2 x COM (RS-232)
SATA	2 x SATA3.0 (6.0 Gb/s)
Parallel	N/A
GPIO	N/A
SATA PWR Output Con	N/A
Speaker Header	N/A
TPM	1 x Header

Watchdog Timer

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

Power Requirements

Input PWR	19V DC-In Jack (220W for Quadro P5000)
Power On	AT/ATX Supported AT : Directly PWR on as Power input ready ATX: Press Button to PWR on after Power input ready

Environment

Temperature	0ºC-50ºC w/GTX1060, 0ºC-45ºC w/GTX1070, 0ºC-35ºC w/GTX1080
Storage Temperature	-40ºC – 85° C