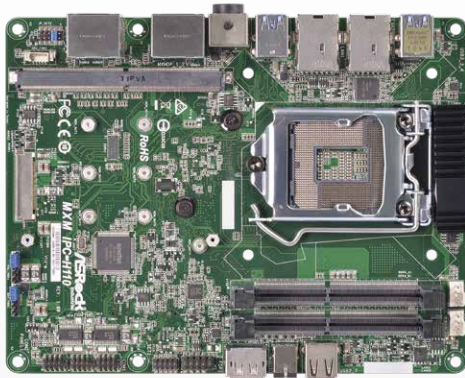


MXM IPC-Q170 / MXM IPC-H110

Mini-ITX Motherboard



Spotlight Features

- Supports 7th/6th Generation Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron® Processors (LGA1151)
- Supports MXM Graphics Card (Type-B , Up to 120W)
- Supports DDR4 2400MHz, 2 x SO-DIMM, up to 32GB system memory
- 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 M.2 (1 x Key E, 1 x Key M)
- Gigabit LAN : 2 x Intel LAN
- 1 x TPM Header
- DC 19V Input (220W for GTX1060/1070, 270W for GTX1080)

Specifications

Processor System	MXM IPC-Q170	MXM IPC-H110
Dimension	Micro-STX (5.8-in x 7.4-in)	
CPU	Supports 7 th /6 th Generation Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron® Processors (LGA1151, Kaby Lake / Skylake)	
Core Number	(by CPU, Max 4)	
Max Speed	(by CPU)	
L3 Cache	(by CPU)	
Chipset	Q170	H110
BIOS	UEFI	

Expansion Slot	
PCIe	0
Mini PCIe	0
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 for SSD

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

Graphics	
Controller	<ul style="list-style-type: none"> • 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 GeForce GTX 1060/1070/1080
VRAM	Shared Memory
VGA	No
LVDS	No
HDMI	No
DVI	No
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		
Interface	10/100/1000 Mbps	
Controller	1 x Intel® I219LM + 1 x Intel® I210	1 x Intel® I219V + 1 x Intel® I210
Connector	2 x RJ45	

SATA	
Max Data Transfer Rate	SATA3 (6.0Gb/s)

Front I/O	MXM IPC-Q170	MXM IPC-H110
USB	1 x USB2.0 Type-A	
DisplayPort	1 (CPU integrated graphics)	
Audio	1 x Mic-In & Line-Out Combo Jack	

Rear I/O	
HDMI	0
DisplayPort	4 (4K@60Hz with MXM Graphics Card)
Ethernet	2
USB	4 x USB3.0 Type-A
Audio	0
Serial Port	0
PS/2	0
Power	1 x 4-pin DC_IN Jack

Internal Connector	
USB	2 x USB 1.1/2.0 (1 x 2.54 pitch header)
LVDS/Inverter	0/0
VGA	0
Serial	2 x COM (supports RS-232 only)
SATA	2 x SATA3.0 1 x M.2 Key M Type 2242/2260/2280 (SATA and PCIe x4)
eDP	1 (CPU integrated graphics)
mPCIe	0
Parallel	0
mSATA	0
IrDA	0
GPIO	0
SATA PWR Output Con	0
Speaker Header	0
SPDIF	0

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 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 Temperature	0°C-50°C w/GTX1060, 0°C-45°C w/GTX1070, 0°C-35°C w/GTX1080