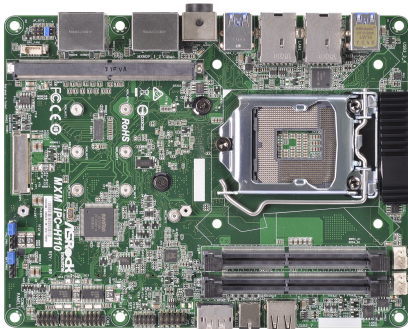


MXM IPC-H110

Micro-STX Motherboard



KEY FEATURES

- Supports 7th/6th Generation (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 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 COM (RS232 only)
- 2 x M.2 (1 x Key E, 1 x Key M)
- 2 x Intel 1 Gigabit LAN
- 1 x TPM Header
- DC 19V Input (220W for GTX1060/1070, 270W for GTX1080)

SPECIFICATIONS

Form Factor

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

Processor System

| | |
|---------|--|
| CPU | Intel® 7 th /6 th Gen (Kabylake-S/Skylake-S) Core. Processors, up to 65W |
| Chipset | Intel® H110 |
| 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 | 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" |
| 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) |
| VGA | 1 x Header (Supports max. resolution 1920 x 1200) |
| LVDS | N/A |
| eDP | Max resolution up to 4096 x 2304@60Hz |
| DVI | N/A |
| MultiDisplay | Hexa 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. |
|-----------|--|

Ethernet

| | |
|-------------------|---|
| Controller/ Speed | LAN1: Intel® I210 with 10/100/1000 Mbps LAN2: Intel® I219V with 10/100/1000 Mbps |
| 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 |
| eDP | 1 |

Storage

| | |
|-------|--|
| M.2 | 1 x M.2 (KEY M, 2242/2260/2280) with PCIe x4 and SATA3 for SSD |
| mSATA | N/A |
| SATA | 2 x SATA3.0 (6.0 Gb/s) |
| 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 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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