

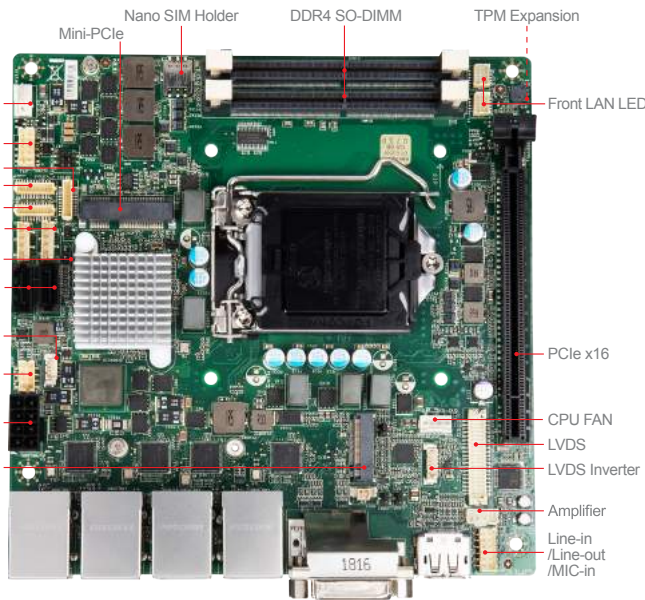
MS-98K1

Mini-ITX with 7th/6th Gen Intel® Kaby Lake/Skylake Processor with Multi-LAN, Expansion Capability & Wide Voltage with High-Performance Solution

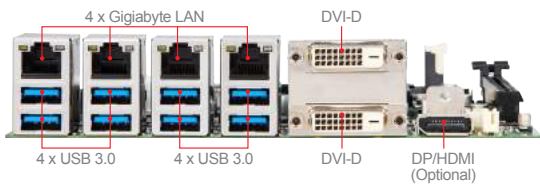
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Specifications

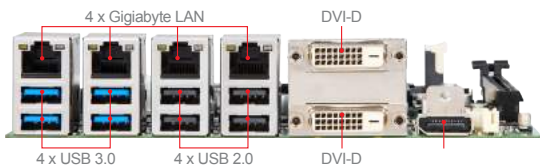
| | | SKU1 | SKU2 | SKU3 | | |
|--------------------------|-----------------------|---|--|--|--|--|
| Processor | CPU | 7th Gen Intel® Desktop Kaby Lake-S i7-7700/i7-7700T/i5-7500/i5-7500T/i3-7101E/i3-7101TE, Max 65W 6th Gen Intel® Desktop Skylake-S i7-6700/i7-6700TE/i5-6500/i5-6500TE/i3-6100/i3-6100TE/G4400/G4400TE/G3900/G3900TE, Max 65W | | | | |
| | Frequency | 2.3GHz~4.0GHz (Depends on CPU) | | | | |
| | L2 Cache | 2M ~ 8M (Depends on CPU) | | | | |
| | CPU Type | Socket (LGA 1151) | | | | |
| | Chipset | Intel® Q170 Express | Intel® H110 Express | | | |
| Memory | BIOS | AMI | | | | |
| | Technology | Dual-channel DDR4 (non-ECC) 2133MHz/2400MHz | | | | |
| | Max. Capacity | Up to 32 GB | | | | |
| | Socket | 2 x 260-pin SO-DIMMs | | | | |
| | Controller | Intel® HD Graphics | | | | |
| Display | Graphic Memory | Shared system memory up to 1.7 GB SDRAM | | | | |
| | LVDS | 1 x Dual channel 18/24-bit | | | | |
| | DVI | 2 (DVI-D) | | | | |
| | HDMI | 1 (Co-lay with DP by Optional) | | | | |
| | DisplayPort | 1 | | | | |
| Multiple Display | | 3 independent displays | 2 independent displays | | | |
| | Display Interface | LVDS up to 1920 x 1200 @60Hz DVI-D up to 1920 x 1200 @60Hz HDMI up to 4096 x 2160 @24Hz DP up to 4096 x 2160 @60Hz | | | | |
| Ethernet | Controller | 4 x Intel® I210-AT GbE LAN (Front LAN LED Supported) | 4 x Intel® I211-AT GbE LAN (Front LAN LED Supported) | 2 x Intel® I211-AT GbE LAN (Front LAN LED Supported) | | |
| | | Audio | Controller | Realtek® ALC887 HD Audio Codec | | |
| | | Super I/O | Controller | Fintek F81866AD-I | | |
| H/W Monitor | Watchdog Timer | 256-level Watchdog Timer | | | | |
| | Smart Fan | Yes | | | | |
| | TPM | Controller | Infinion SLB9665TT 2.0 | Pin header (Default) Infinion SLB9665TT 2.0 (by BOM option) | | |
| USB | | 8 x USB3.0 (rear) 3 x USB2.0 (internal) | 4 x USB3.0 (rear) 5 x USB2.0 (4 x rear; 1 x internal) | | | |
| | I/O Interfaces | Serial | 4 x COM ports (Internal) COM1: RS-232/422/485, RI/5V/12V COM2~4: RS-232/422/485, 0V/5V/12V | 4 x COM ports (Internal) COM1: RS-232/422/485, RI/5V/12V COM2~4: RS-232, 0V/5V/12V | | |
| Parallel | | N/A | | | | |
| PS/2 | | N/A | | | | |
| GPIO | | 16-bits (8 x GPI; 8 x GPO), 5V | | | | |
| Expansion Slot | PCIe x16 | 1 (Maximum 75W Supported) | | | | |
| | M.2 | 1 x M Key (PCIe x4, SATA3.0), 2242/2280 | 1 x M Key (SATA3.0), 2242/2280 | | | |
| | Mini-PCIe | 1 x Full-size (w/ SIM holder) | | | | |
| Storage | SATA | 2 x SATA 3.0 | | | | |
| | DC Input | DC-in 12 ~24V | | | | |
| Power Supply | AC Input | N/A | | | | |
| | Environment | Operating Temperature | -10 ~ 60°C | | | |
| Operating Humidity | | 10 ~ 90%, non-condensing | | | | |
| Storage Temperature | | -20 ~ 80°C | | | | |
| Storage Humidity | | 10 ~ 90%, non-condensing | | | | |
| Form Factor | Dimensions | 170 x 170mm (Mini-ITX) | | | | |
| | Weight | 0.42 kg | 0.39 kg | | | |
| Certification | EMC | FCC, CE, RCM, VCCI, BSMI (Class A) | | | | |
| Software Platform | OS Support | Windows 10 (64-bit) Windows 7 (32/64-bit) (Skylake-S Series only) Windows 8.1 (64-bit) (Skylake-S Series only) Linux Fedora 23 (by request) Linux Ubuntu 16.04 (by request) | | | | |



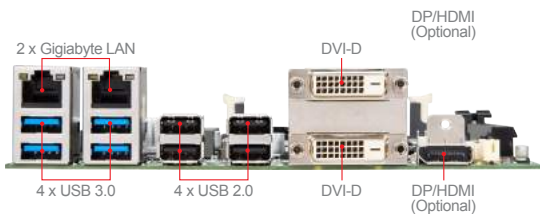
SKU1



SKU2



SKU3



Features

- 3 or 2 independent displays with multiple video outputs (2 DVI-D, DP/HDMI, LVDS)
- Supports maximum 4 Intel® GbE LAN
- Supports DDR4-2400MHz SO-DIMM memory up to 32GB
- Supports 2 SATA 3.0 ports, M.2 M Key 2242/2280 for storage
- Supports PCIe x16, and Mini-PCIe slot with SIM Holder
- Supports maximum 8 USB 3.0 ports, 4 COM ports & 16Bit GPIO
- Supports wide voltage DC-in 12~24V

Ordering Information

| Part Number | Description |
|--|-------------|
| Please check MSI IPC website at http://ipc.msi.com for details. | |

Packing List

| Number | Description |
|--|-------------|
| Please check MSI IPC website at http://ipc.msi.com for details. | |

Optional Item

Please check MSI IPC website at <http://ipc.msi.com> for details.