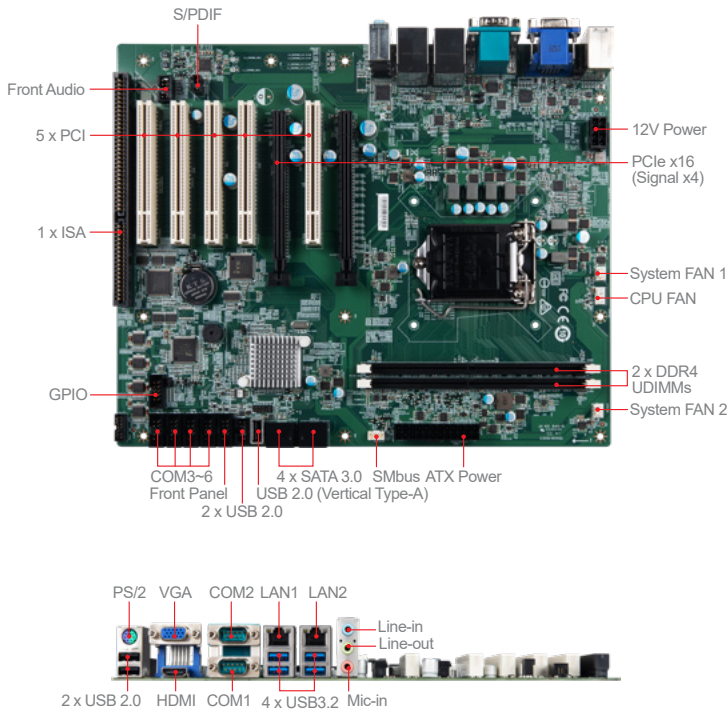


MS-98L9 V2.0

ATX with 7th/6th Gen Intel® Kaby Lake/Skylake Core™ i7/i5/ i3, Pentium®, Celeron® Processor & Intel® H110 for Mainstream with ISA Solution

NEW



Features

- Intel® 7th/6th Gen Kaby Lake-S/Skylake-S Series with H110
- 2 DDR4 2133/2400 MHz UDIMM slots up to 32GB
- Dual independent displays: VGA, HDMI
- 2 GbE LAN with RJ-45
- 1 PCIe x16 (Gen 3), 1 PCIe x4 (Gen 3), 5 PCI, 1 ISA slots
- 4 SATA 3.0 for storage
- 4 USB 3.2 Gen 1, 5 USB 2.0, 6 COM ports (1 RS-485), GPIO, PS/2, Audio, S/PDIF, 2 System FAN
- SMBus, Chassis Intrusion
- ATX Power

Ordering Information

| Part Number | Description |
|--------------|---|
| 919-98L9-002 | MS-98L9/609-98L9-020/809-98L9-006 VER:20 ATX, Intel Kaby Lake-S/Skylake-S H110, 2*DDR4, 1*PCIe x16, 1*PCIe x4, 5*PCI, 1*ISA, HDMI, VGA, 2*LAN, 4*USB3.0, 5*USB2.0, Single, for channel. |
| 919-98L9-101 | MS-98L9/609-98L9-020/809-98L9-101 VER:20 ATX, Intel Kaby Lake-S/Skylake-S H110, 2*DDR4, 1*PCIe x16, 1*PCIe x4, 5*PCI, 1*ISA, HDMI, VGA, 2*LAN, 4*USB3.0, 5*USB2.0, Bulk, for channel. |

Packing List

| Part Number | Description | Quantity |
|-----------------|-------------------|----------|
| K1D-1008261-V03 | SATA Cable ,500mm | 2 |
| E21-98L9010-C22 | I/O Shielding | 1 |
| G71-SEDC208-N56 | Driver CD | 1 |

Part Number

| Part Number | Description |
|-----------------|-----------------------|
| K1B-3008012-E06 | USB3.0 Cable, 330mm |
| K14-1018004-V03 | COM Port Cable, 510mm |
| K39-3002004-E06 | PS/2 Y-Cable, 190mm |

Specifications

| | | |
|--------------------------|------------------------|---|
| System Processor | CPU | 7th/6th Gen Intel® Desktop Kaby Lake/Skylake i7/ i5/i3/Pentium®/Celeron® Series Processor, Max 95W |
| | Frequency | 2.3GHz~4.2GHz (Depends on CPU) |
| | L2 Cache | 2MB~8MB (Depends on CPU) |
| | CPU Type | Socket (LGA 1151) |
| | Chipset | Intel® H110 Express |
| | BIOS | AMI UEFI |
| Memory | Technology | Dual-channel DDR4 2133/2400 MHz |
| | Max. Capacity | Up to 32GB |
| | Socket | 2 x 288-pin UDIMMs |
| Display | Controller | Intel® HD Graphics |
| | Graphic Memory | Depends on CPU |
| | LVDS | N/A |
| | eDP | N/A |
| | VGA | 1 |
| | DVI | N/A |
| | HDMI | 1 |
| | DisplayPort | N/A |
| | Multiple Display | 2 independent displays |
| | Display Interface | VGA up to 1920 x 1200 @60Hz HDMI up to 4096 x 2160 @24Hz |
| Ethernet | Controller | 1 x Intel® I219-LM GbE LAN PHY 1 x Intel® I211-AT GbE LAN |
| Audio | Controller | Realtek® ALC887-VD2-CG Audio Codec |
| Super I/O | Controller | Fintek F81866AD-I |
| H/W Monitor | Watchdog Timer | 256-level Watchdog Timer |
| | Smart Fan | Yes |
| TPM | Controller | Box header |
| I/O Interfaces | USB | 5 x USB 2.0 (2 x rear, 3 x internal with one Vertical Type-A) 4 x USB 3.2 Gen 1 (rear) |
| | Serial | 6 x COM ports (2 x rear, 4 x internal) COM1: RS-232/422/485, 0V/5V/12V, Auto-flow Control COM2-6: RS-232, COM2: 0V/5V/12V |
| | Parallel | N/A |
| | PS/2 | 1 x PS/2 port by Y-cable for keyboard and mouse |
| | GPIO | 8-bits (4 x GPI; 4 x GPO by default), 5V 8-bits (8 x GPI or 8 x GPO by request), 5V |
| | PCIe x16 | 1 |
| Expansion Slot | PCIe x4 | 1 (PCIe x16 Slot Type) |
| | PCIe x1 | N/A |
| | PCI | 5 |
| | M.2 | N/A |
| | Mini-PCIe | N/A |
| Storage | SATA | 4 x SATA 3.0 |
| Power Supply | ATX | ATX-Power 24P, 12V-8P |
| 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 (W x D x H) | 305 x 244mm (ATX) |
| | Weight | 0.70 kg |
| Certification | EMC | CE, FCC Class B, BSMI, RCM, VCCI |
| Software Platform | OS Support | Windows 10 (64-bit) Windows 7 (32/64-bit) (Skylake-S Series CPU Only) Windows 8.1 (64-bit) (Skylake-S Series CPU Only) Linux Fedora 25 (by request) Linux Ubuntu 16.04 (by request) |