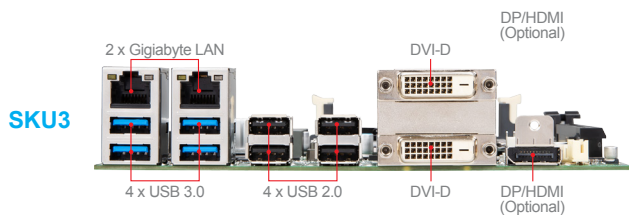
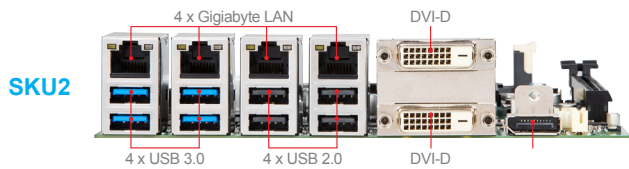
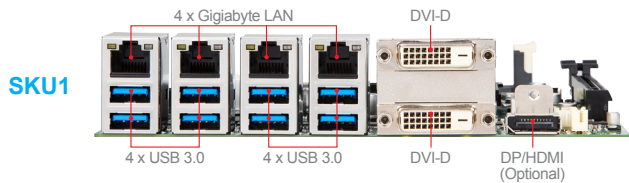
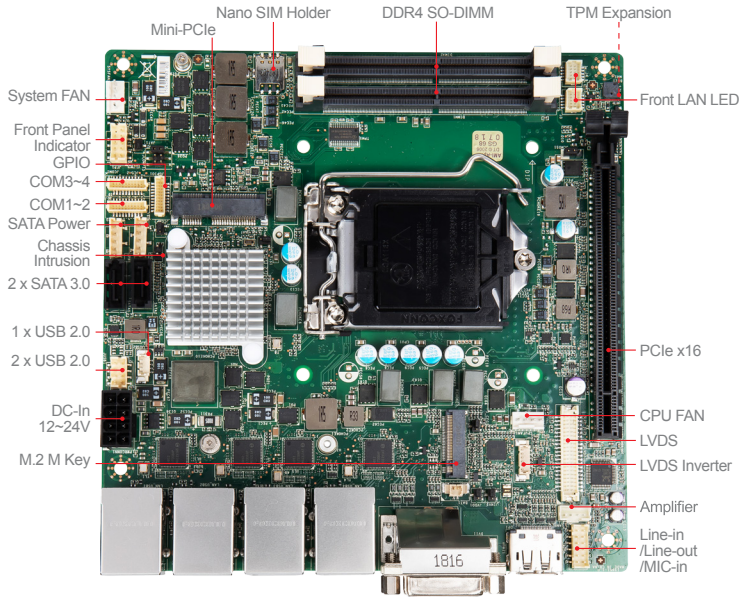


MS-98K1

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

NEW



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-PCle 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

N°	Modell	Description
154717	MS-98K1-SKU1	Board, Mini-ITX, Q170, S1151, PCIe16, M.2, 4GLAN
162105	MS-98K1-SKU2	Board, Mini-ITX, H110, S1151, PCIe16, M.2, 4GLAN
162106	MS-98K1-SKU3	Board, Mini-ITX, H110, S1151, PCIe16, M.2, 2GLAN

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		
	BIOS	AMI			
Memory	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	Infineon SLB9665TT 2.0	Pin header (Default) Infineon SLB9665TT 2.0 (by BOM option)		
		I/O Interfaces	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)
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				
Expansion Slot	GPIO	16-bits (8 x GPI; 8 x GPO), 5V			
	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		
Storage	Mini-PCle	1 x Full-size (w/ SIM holder)			
	SATA	2 x SATA 3.0			
Power Supply	DC Input	DC-in 12~24V			
	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)			