

MS-98K1

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

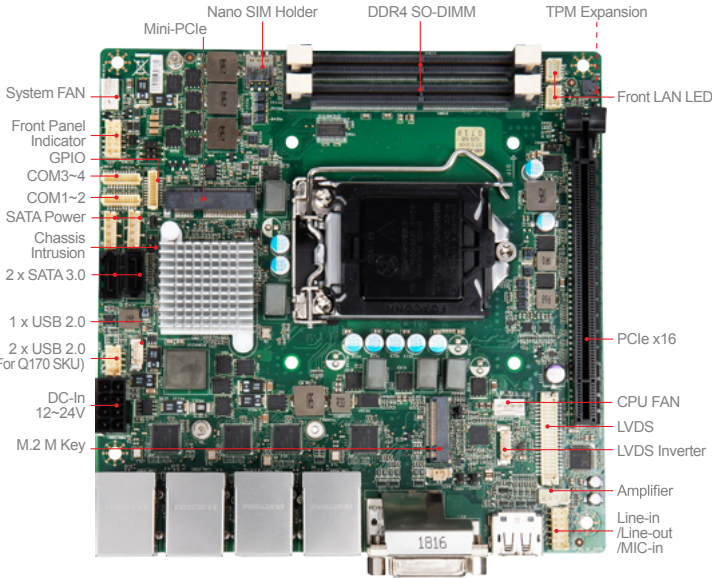
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Specifications

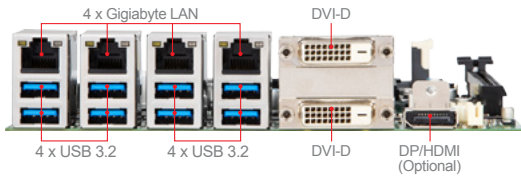
		SKU1	SKU2	SKU3	
System Processor	CPU	7th Gen Intel® Desktop Kaby Lake-S i7-7700/i7-7700T/i5-7500/i5-7500T/i3-7101E/i3-7101TE, Max 65W			
	Frequency	6th Gen Intel® Desktop Skylake-S i7-6700/i7-6700TE/i5-6500/i5-6500TE/i3-6100/i3-6100TE/G4400/G4400TE/G3900/G3900TE, Max 65W			
	L2 Cache	2M ~ 8M (Depends on CPU)			
	CPU Type	Socket (LGA 1151)			
	Chipset	Intel® Q170 Express	Intel® H110 Express		
	BIOS	AMI			
Memory	Technology	Dual-channel DDR4 (non-ECC)			
	Max. Capacity	2133MHz/2400MHz			
	Socket	2 x 260-pin SO-DIMMs			
Display	Controller	Intel® HD Graphics			
	Graphic Memory	Depends on CPU			
	LVDS	1 x Dual channel 18/24-bit			
	DVI	2 (DVI-D)			
	HDMI	1 (Co-lay with DP by Optional)			
Multiple Display	DisplayPort	1			
	Multiple Display	3 independent displays	2 independent displays		
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)	
		Controller			Realtek® ALC887 HD Audio Codec
		Watchdog Timer			256-level Watchdog Timer
H/W Monitor	Smart Fan			Yes	
	USB	3 x USB 2.0 (internal) 8 x USB 3.2 Gen 1 (rear)	5 x USB 2.0 (4 x rear, 1 x internal) 4 x USB 3.2 Gen 1 (rear)		
Serial		4 x COM ports (internal) COM1: RS-232/422/485, RI/5V/12V COM2-4: RS-232/422/485, 0V/5V/12V			
	GPIO	16-bits (8 x GPI; 8 x GPO), 5V			
TPM	Controller	Infineon SLB9665TT 2.0	Pin header (Default) Infineon SLB9665TT 2.0 (by BOM option)		
		Expansion Slot	PCIe x16	1 (Maximum 75W Supported)	
Storage	M.2		1 x M key (PCIe x4 NVMe, SATA 3.0), 2242/2280	1 x M key (SATA 3.0), 2242/2280	
	Power Supply	Mini-PCIe	1 x Full-size (w/ SIM holder)		
SATA		2 x SATA 3.0			
Operating Temperature	DC Input	DC-in 12 ~24V			
	AC Input	N/A			
Operating Humidity	Operating Temperature	-10 ~ 60°C			
	Operating Humidity	10 ~ 90%, non-condensing			
Storage Temperature	Storage Temperature	-20 ~ 80°C			
	Storage Humidity	10 ~ 90%, non-condensing			
Form Factor	Dimensions (W x D x H)	170 x 170mm (Mini-ITX)			
	Weight	0.42 kg	0.42 kg	0.39 kg	
Certification	EMC	FCC, CE, RCM, VCCI, BSMI (Class A)			
	Software Platform	OS Support	Windows 7 (32/64-bit) (Skylake-S Series CPU Only)		
Windows 8.1 (64-bit) (Skylake-S Series CPU Only)					
Windows 10 (64-bit)					
Linux Fedora 23 (by request) Linux Ubuntu 16.04 (by request)					

Optional Item

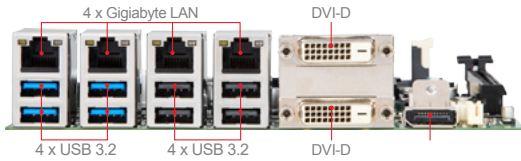
Part Number	Description
Please check MSI IPC website at http://ipc.msi.com for details.	



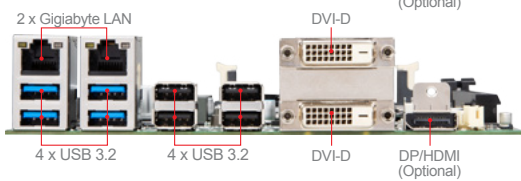
SKU1



SKU2



SKU3



Features

- Intel® 7th/6th Gen Skylake-S/Kaby Lake-S Series with Q170/H110
- 2 DDR4 2400 MHz SODIMM slots up to 32GB
- Triple independent displays: 2 DVI-D, DP (HDMI by option), LVDS
- 4 GbE LAN with RJ-45
- 1 PCIe x16 (Gen3), 1 Mini-PCIe (Full size, with SIM Holder) slots
- M.2 M Key, 2 SATA 3.0 for storage
- SATA RAID 0/1/5 (RAID 5 Configured with M.2 M Key)
- 8 USB 3.2 Gen 1, 3 USB 2.0, 4 COM (4 RS-485), GPIO, Audio, System FAN
- Onboard TPM 2.0 (by option)
- SMBus, Chassis Intrusion
- 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

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