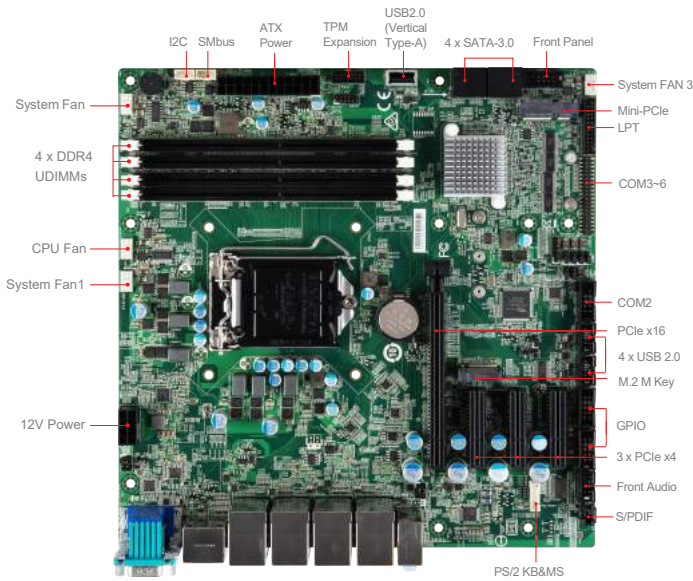


MS-98L2

Micro-ATX with 8th Gen Intel® Coffee Lake-S Xeon, Core™ i7/i5/i3, Pentium®, Celeron® Processor for Superior I/O & Expansion Capability for High-Performance Solution

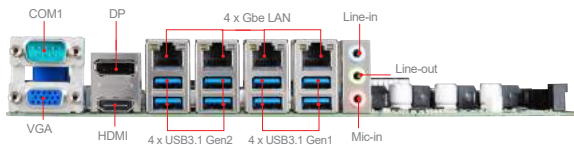
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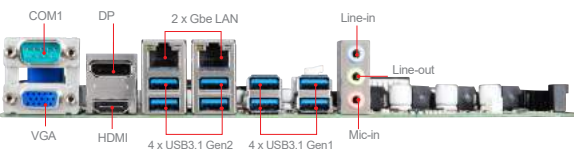
Specifications

		SKU1	SKU2	SKU3	
Processor	CPU	8th Gen Intel® Desktop Coffee Lake-S Xeon®/i7/i5/i3/Pentium®/Celeron® Series Processor, Max 95W			
	Frequency	2.1GHz~4.7GHz(Depends on CPU)			
	L2 Cache	2MB~12MB (Depends on CPU)			
	CPU Type	Socket (LGA 1151)			
	Chipset	Intel® C246 Express	Intel® Q370 Express		
Memory	BIOS	AMI UEFI			
	Technology	Dual-channel DDR4 (ECC/ non-ECC) 2666MHz	Dual-channel DDR4 (non-ECC) 2666MHz		
	Max. Capacity	Up to 64GB			
	Socket	4 x 288-pin UDIMMs			
Display	Controller	Intel® HD Graphics			
	Graphic Memory	Shared system memory up to 1.7 GB SDRAM			
	LVDS	N/A			
	VGA	1			
	HDMI	1			
	DisplayPort	1			
	Multiple Display	3 independent displays			
Display Interface	VGA up to 1920 x 1200 @60Hz HDMI up to 4096 x 2160 @24Hz DP up to 4096 x 2304 @60Hz				
	Ethernet	Controller	1 x Intel® I219-LM GbE LAN PHY 3 x Intel® I210-AT GbE LAN	1 x Intel® I219-LM GbE LAN PHY 1 x Intel® I211-AT GbE LAN	
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	Box header (Default) Infineon SLB9665TT2.0 (by BOM option)			
I/O Interface	USB	4 x USB3.1 Gen2 Type-A (4 x Rear) 4 x USB3.1 Gen1 Type-A (4 x Rear) 5 x USB 2.0 (5 x internal with one Vertical Type-A)			
	Serial	6 x COM ports (internal) COM1: RS-232/422/485, Ring/0V/5V/12V, Auto-flow Control COM2: RS-232/422/485, 0V/5V/12V, Auto-flow Control COM3-6: RS-232, 0V/5V/12V	6 x COM ports (internal) COM1: RS-232/422/485, Ring/0V/5V/12V, Auto-flow Control COM2-6: RS-232, 0V/5V/12V		
	Parallel	1			
	PS/2	1 x PS/2 port by Y-cable for keyboard and mouse			
	GPIO	16-bits (8 x GPI; 8 x GPO), 5V			
	Expansion Slot	PCIe x16	1		
		PCIe x4	3 (Slot2 signal shared with M.2; 2*PCIe x4 NVMe)		
M.2		1 x M Key (PCIe x4 NVMe, SATA 3.0), 2242/2260/2280			
Mini-PCIe		1 x Full-size/Half-size			
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	244 x 244mm (uATX)			
	Weight	0.625 kg	0.6 kg		
Certification	EMC	CE, FCC Class B, BSMI, RCM, VCCI			
Software Platform	OS Support	Windows 10 (64-bit) Linux Kernel 4.x (by request)			

SKU1/SKU2



SKU3



Features

- Intel® Coffee Lake-S Series CPU to maximize performance
- 4 DDR4 2666MHz UDIMMs slots up to 64 GB memory
- Supports 3 independent displays with multiple video outputs (DP, HDMI & VGA)
- Supports 2/4 Intel® GbE LAN and AMT 12.x
- Supports 4 SATA-3.0 and 6 COM ports for flexible applications
- Supports 1 PCIe x16, 3 PCIe x4 Slots, full-size and half-size mini-PCIe for multiple expansion slots
- M.2 supports high speed PCIe NVMe SSD storage
- Plenty USB ports for more peripherals (8 USB 3.1 & 5 USB 2.0)

Ordering Information

Art. N° 155658	MS-98L2-C246 (SKU1)
Art. N° 155659	MS-98L2-Q370 (SKU2)
Art. N° 157380	MS-98L2-Q370 (SKU3)