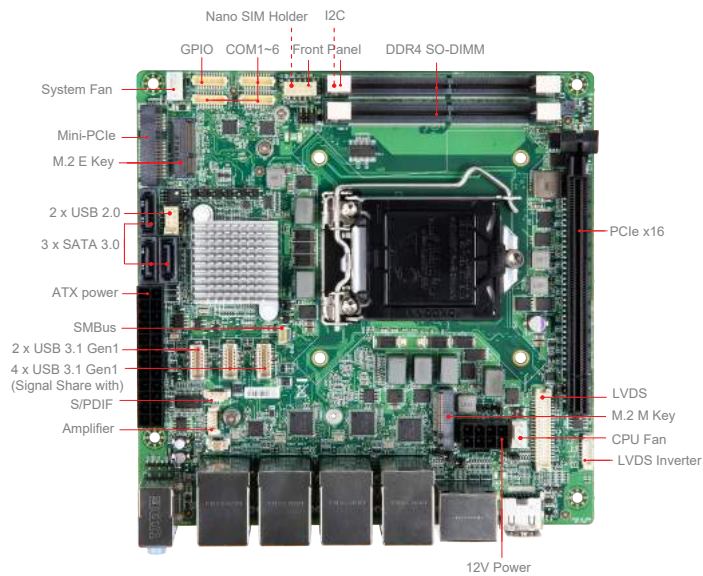


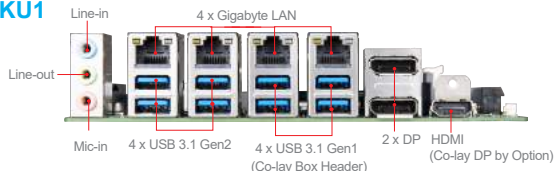
MS-98L1

Mini-TX with 8th Gen Intel® Coffee Lake-S Xeon®, Core™ i7/i5/i3, Pentium®, Celeron® Processor & Intel® C246/Q370/H310 for High-Performance Solution

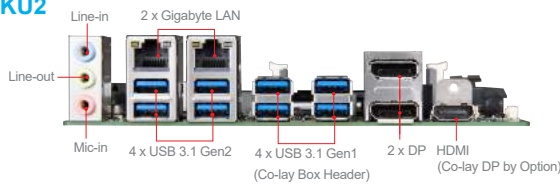
NEW



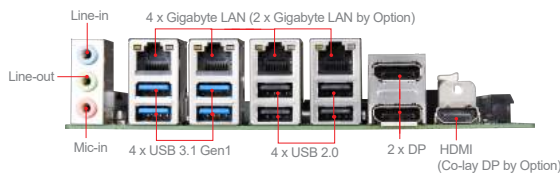
SKU1



SKU2



SKU3/SKU4



Features

- Intel® Coffee Lake-S Series CPU to maximize performance
- 2 DDR4 2666MHz SO-DIMMs slots up to 32GB memory
- Supports Dual DP, HDMI, 4 Intel® GbE LAN and AMT 12.x
- Supports 3 SATA 3.0, 4 USB 3.1 Gen2, 6 USB3.1Gen1 (4 rear, Signal Share with Internal Box Header; 2 internal), 2 USB 2.0 and 6 COM ports for flexible applications
- Supports 1 PCIe x16 Slot

Ordering Information

Part Number	Description
Coming soon	

Packing List

Part Number	Description
Coming soon	

Specifications

		SKU1	SKU2	SKU3	SKU4
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	Intel® H310 Express	
Memory	BIOS	AMI UEFI			
	Technology	Dual-channel DDR4 (ECC/non-ECC) 2666MHz		Dual-channel DDR4 (non-ECC) 2666MHz	
	Max. Capacity	Up to 32GB			
	Socket	2 x 260-pin DDR4 SO-DIMMs			
Display	Controller	Intel® HD Graphics			
	Graphic Memory	Shared system memory up to 1.7 GB SDRAM			
	LVDS	Dual channel 18/24-bit		N/A	
	VGA	N/A		N/A	
	HDMI	1 (Co-lay with DP by Optional)			
	DisplayPort	2			
	Multiple Display	3 independent displays		2 independent displays	
Display Interface	LVDS up to 1920 x 1200 @60Hz	HDMI up to 4096 x 2160 @24Hz		DP up to 4096 x 2304 @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® I210-AT GbE LAN	1 x Intel® I219-LM GbE LAN PHY 3 x Intel® I211-AT GbE LAN	1 x Intel® I219-LM GbE LAN PHY 1 x Intel® I211-AT GbE LAN
	Controller	Realtek® ALC887 Audio Codec (Co-lay ALC888S)			
Super I/O	Controller	Fintek F81866AD-I			
H/W Monitor	Watchdog Timer	256-level Watchdog Timer			
	Smart Fan	Yes			
TPM	Controller	Infineon SLB 9665TT.2.0		Box header (Default) Infineon SLB9665TT.2.0 (by BOM option)	
I/O Interface	USB	4 x USB 3.1 Gen2 (4 x rear) 6 x USB 3.1 Gen1 (4 rear, Signal Share with Internal Box Header; 2 internal) 2 x USB 2.0 (2 x internal)		4 x USB 3.1 Gen1 (4 rear) 4 x USB 2.0 (4 rear)	
	Serial	6 x COM ports COM1: RS-232/422/485, RI/5V/12V, Auto-flow Control COM2 RS-232/422/485, 0V/5V/12V, Auto-flow Control COM3~6 RS-232, 0V/5V/12V, Auto-flow Control		6 x COM ports COM1: RS-232/422/485, RI/5V/12V, Auto-flow Control COM2~6 RS-232, 0V/5V/12V, Auto-flow Control	
Expansion Slot	GPIO	16-bits (8 x GPI; 8 x GPO), 5V			
	PCIe x16	1			
	M.2	1 x M Key (PCIe x4 NVMe, SATA), 2242/2280 1 x E Key (PCIe x1, USB 2.0, CNVi), 2230		1 x M Key (SATA), 2242/2280 1 x E Key (PCIe x1, USB 2.0, CNVi), 2230	
Storage	Mini-PCIe	1 x Full-size (w/SIM holder)			
	SATA	3 x SATA 3.0 (Support RAID 0/1/5/10, AHCI Mode, RAID 10 Configured with M.2 M Key)		3 x SATA 3.0 (Support AHCI Mode)	
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	170 x 170mm (Mini-ITX)			
	Weight	0.405 kg	0.375 kg	0.39 kg	0.375 kg
Certification	EMC	CE, FCC Class B, BSMI, RCM, VCCI			
Software Platform	OS Support	Windows 10 (64-bit) Linux Kernel 4.x (by request)			