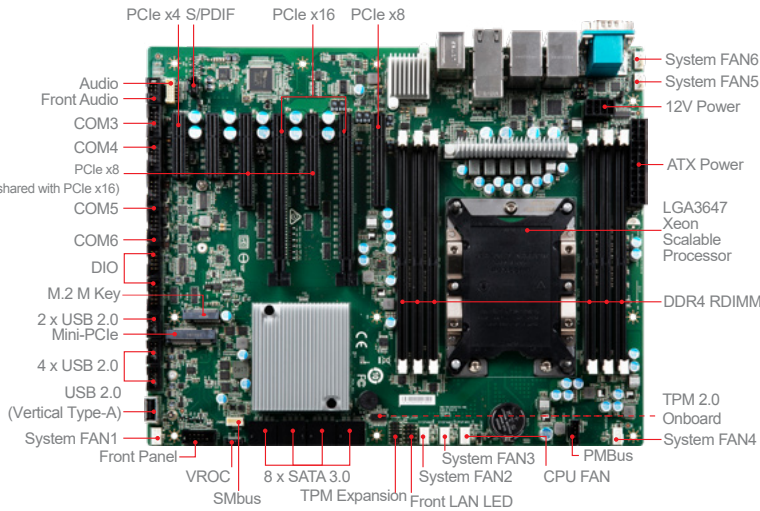


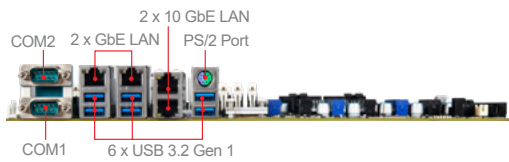
MS-98M9

ATX with 2nd/1st Gen Intel® Cascade Lake/Skylake Xeon® Scalable Processors & Intel® C622/C621 Chipset for Ultra-High Performance Solution

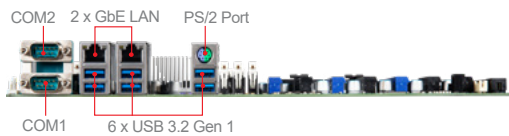
NEW



SKU1



SKU2



Features

- 6 RDIMMs, DDR4 (ECC) 2666 MHz, up to 192GB
- Intel® X557-AT2 PHY for Dual 10GbE LAN ports
- 8 SATA 3.0, 13 USB ports (6 USB 3.2 Gen 1, 7 USB 2.0), 6 COM ports, 6 System FANs, 16-bit DIO, & 1 PS/2
- 2 PCIe x16 (Signal configured as 2 PCIe x16 or 4 PCIe x8 or 1 PCIe x16 + 2 PCIe x8)
- 1 M.2 M key & 1 Mini-PCle
- Intel® VROC for RAID function with NVMe storage
- PMBus features to provide more PSU status to the system

Ordering Information

Nr.	Model	Description
157461	MS-98M9-C621	Board, ATX, C621, S3647, 2PCIe16/1x8/4, M.2, 2GLAN
157462	MS-98M9-C622	Board, ATX, C622, S3647, 2PCIe16/1x8/4, M.2, 4GLAN

Specifications

		SKU1	SKU2	
System Processor	CPU	2nd/1st Gen Intel® Cascade Lake/Skylake Xeon® Scalable Processors, Max 205W		
	Frequency	1.9GHz~2.5GHz (Depends on CPU)		
	L2 Cache	11MB~27.5MB (Depends on CPU)		
	CPU Type	Socket (LGA 3647)		
	Chipset	Intel® C622 Express	Intel® C621 Express	
	BIOS	AMI UEFI		
Memory	Technology	Six-channel DDR4 (ECC) 2666 MHz		
	Max. Capacity	Up to 192GB		
	Socket	6 x 288-pin RDIMMs		
Display	Controller	N/A		
	Graphic Memory	N/A		
	LVDS	N/A		
	eDP	N/A		
	VGA	N/A		
	DVI	N/A		
	HDMI	N/A		
	DisplayPort	N/A		
	Multiple Display	N/A		
	Display Interface	N/A		
Ethernet	Controller	1 x Intel® X557-AT2 PHY for Dual 10 GbE LAN	2 x Intel® I210-AT GbE LAN	
		2 x Intel® I210-AT GbE LAN		
Audio	Controller	Realtek® ALC887-VD2-CG 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 Interfaces	USB	7 x USB 2.0 (7 x internal with one Vertical Type-A) 6 x USB 3.2 Gen 1 (rear)		
	Serial	6 x COM ports (2 x Rear, 4 x 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		
		Parallel	N/A	
		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	2 (Signal configured as 2 PCIe x16 or 4 PCIe x8 or 1 PCIe x16 + 2 PCIe x8)	
PCIe x8		1		
PCIe x4		2 (Slot7 signal shared with M.2)		
PCIe x1		N/A		
M.2		1 x M key (PCIe x4 NVMe), 2242/2280		
Storage	SATA	8 x SATA 3.0 (RAID 0/1/5/10)		
	mSATA	1 x Full-size/Half-size (shared w/ Mini-PCle)		
Power Supply	ATX	ATX-Power 24P, 12V-8P		
Environment	Operating Temperature	0 ~ 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	0.90 kg		
Certification	EMC	CE, FCC Class B, BSMI, RCM, VCCI		
Software Platform	OS Support	Windows Server 2012 (64-bit, Skylake-SP Series) Windows Server 2016 (64-bit, Skylake-SP & Cascade Lake Series) Windows Server 2019 (64-bit, Cascade Lake Series) Windows 10 IoT Enterprise LTSC/SAC 1809 (64-bit, RS5, by request) Linux 4.x (by request)		