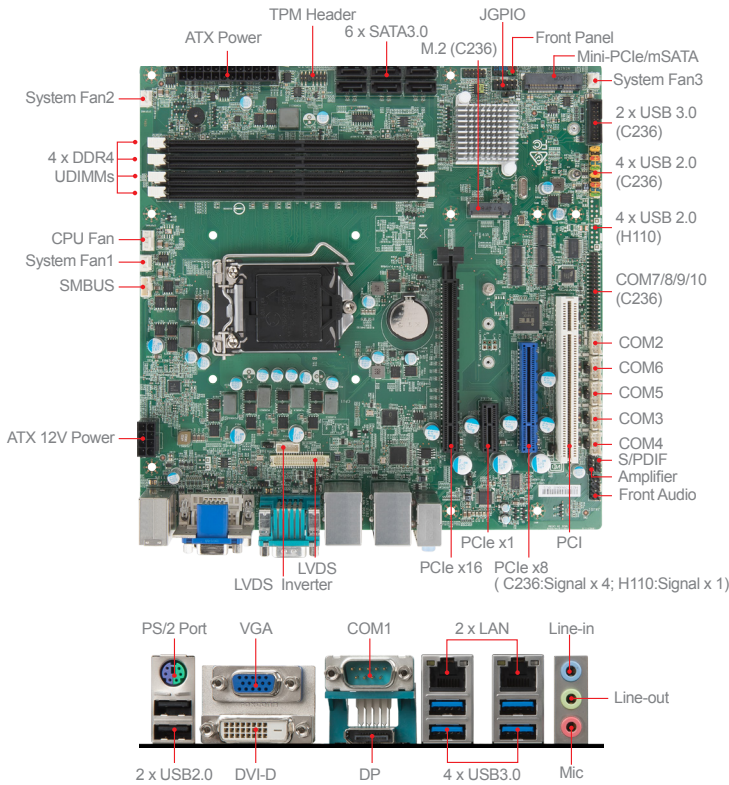


MS-98E2

Micro-ATX with 7th/6th Gen Intel® Kaby Lake/Skylake, Superior I/O & Expansion Capability for High-Performance Solution

NEW



Features

- 10 COM ports for flexible applications
 - Supports 3 system fans
 - 3 independent displays with multiple video outputs (LVDS, DP, DVI-D, VGA)
 - Supports DirectX 11.1 and Intel® Clear Video Technology (up to 1080P)
 - Multiple expansion slots: PCIe x16, PCIe x8 (x4 signal), PCIe x1, and PCI
 - 6 SATA 3.0 ports for RAID
 - M.2 supports high speed PCIe NVMe SSD storage
 - Supports m-SATA function by Mini-PCIe slot
 - Plenty USB ports for more peripherals (USB 2.0*6 USB 3.0*6)
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- 6 COM ports for flexible applications
 - Supports 3 system fans
 - 2 independent displays with multiple video outputs (DP, DVI-D, VGA)
 - Supports DirectX 11.1 and Intel® Clear Video Technology (up to 1080P)
 - Multiple expansion slots: PCIe x16, PCIe x1, PCIe x8 (x1 signal), and PCI
 - 3 SATA 3.0 ports for faster and high-capacity storage
 - Supports m-SATA function by Mini-PCIe slot
 - Plenty USB ports for more peripherals (USB 2.0*6 USB 3.0*4)

Ordering Information

Part Number	Description
Art. No. 152878	MS-98E2-H110
Art. No. 152887	MS-98E2-C236

Specifications

		C236 SKU	H110 SKU	
Processor	CPU	7th/6th Gen Intel® Desktop Kaby Lake/ Skylake Xeon/i7/i5/i3/Pentium®/Celeron® Series Processor, Max 95W	7th/6th Gen Intel® Desktop Kaby Lake/ Skylake Core™ i7/i5/i3/Pentium®/Celeron® Series Processor, Max 95W	
	Frequency	2.3GHz~4.0GHz (Depends on CPU)		
	L2 Cache	2M ~ 8M (Depends on CPU)		
	CPU Type	Socket (LGA 1151)		
	Chipset	Intel® C236 Express	Intel® H110 Express	
Memory	BIOS	AMI		
	Technology	Dual-channel DDR4 (ECC) 2133MHz/2400MHz (7th Gen)	Dual-channel DDR4 (non-ECC) 2133MHz/2400MHz (7th Gen)	
	Max. Capacity	Up to 64 GB	Up to 32 GB	
	Socket	4 x 288-pin Long-DIMMs	2 x 288-pin Long-DIMMs	
Display	Controller	Intel® HD Graphics		
	Graphic Memory	Shared system memory up to 1.7 GB SDRAM		
	LVDS	1	N/A	
	eDP	N/A		
	VGA	1		
	DVI	1 (DVI-D)		
	DisplayPort	1		
	Multiple Display	3 independent displays	2 independent displays	
	Display Interface	LVDS up to 1920 x 1200	DP up to 3840 x 2160	DP up to 3840 x 2160
		DP up to 3840 x 2160 DVI-D up to 1920 x 1200 VGA up to 1920 x 1200	DVI-D up to 1920 x 1200 VGA up to 1920 x 1200	DVI-D up to 1920 x 1200 VGA up to 1920 x 1200
Ethernet	Controller	1 x Intel® I219-LM GbE-PHY 1 x Intel® I210-AT PCIe GbE LAN	1 x Intel® I219-LM GbE-PHY 1 x Intel® I211-AT PCIe GbE LAN	
		Audio	Controller	Realtek® ALC887 HD Audio Codec
Super I/O	Controller	Fintek F81866AD-I + F81216H	Fintek F81866AD-I	
H/W Monitor	Watchdog Timer	256-level Watchdog Timer		
TPM	Controller	Pin header		
I/O Interface	USB	6 x USB 3.0 (4 x rear; 2 x internal) 6 x USB 2.0 (2 x rear; 4 x internal)	4 x USB 3.0 (4 x rear) 6 x USB 2.0 (2 x rear; 4 x internal)	
		10 x COM (1 x rear; 9 x internal) COM1: RS-232/422/485, 0V/5V/12V COM2-6: RS-232, 0V/5V/12V COM7~COM10: RS-232, without power	6 x COM (1 x rear; 5 x internal) COM1: RS-232/422/485, 0V/5V/12V COM2-6: RS-232, 0V/5V/12V	
	Parallel	N/A		
	PS/2	1		
	GPIO	8-bits (4 x GPI, 4 x GPO), 5V		
	Expansion Slot	PCIe x16	1	
PCIe x8		1*PCIe x8 (x4 signal)	1*PCIe x8 (x1 signal)	
PCIe x4		N/A		
PCIe x1		1		
PCI		1		
M.2		M.2(PCIe x4, SATA3.0)	N/A	
Storage	Mini-PCIe	1 x Full-size, mSATA		
	SATA	6 x SATA 3.0	3 x SATA 3.0	
Power Supply	mSATA	1		
	DC	N/A		
Environment	ATX	ATX-Power 24P, 12V-8P		
	Operating Temperature	0 ~ 60°C		
	Operating Humidity	10 ~ 90%, non-condensing		
	Storage Temperature	-20 ~ 80°C		
Form Factor	Storage Humidity	10 ~ 90%, non-condensing		
	Dimensions	244 mm x 244 mm (uATX)		
	Weight	0.73 kg		
Certification	EMC	FCC, CE, RCM, VCCI, BSMI		
Software Platform	OS Support	Windows 7 (32/64-bit) Windows 8.1 (64-bit) Windows 10 (64-bit) Linux Kernel 4.X, support Fedora 23(64Bit) & Ubuntu 16.04 (64Bit) of Skylake-S & KabyLake-S		