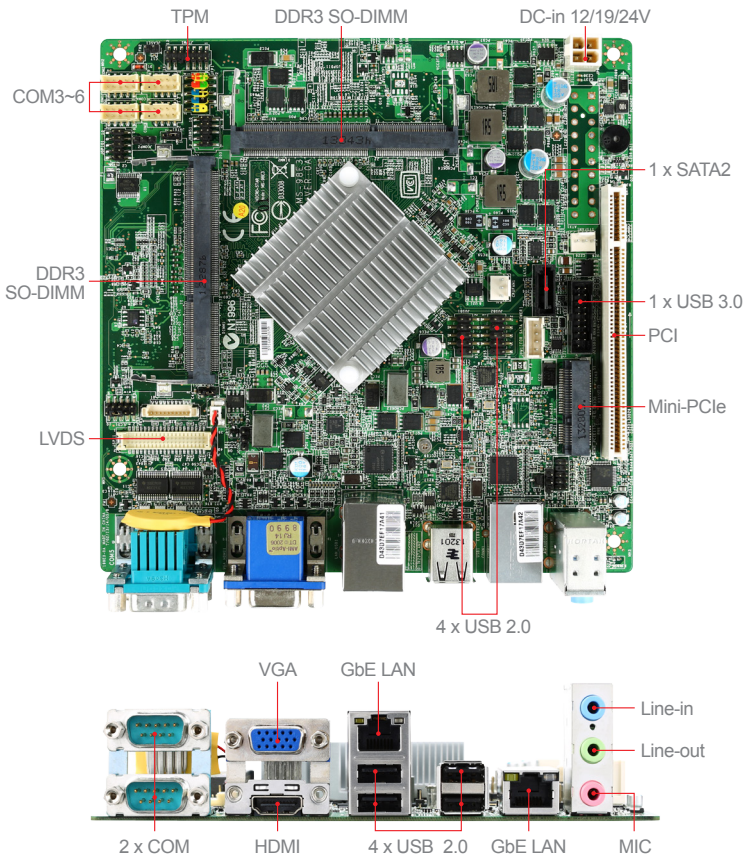


# MS-98E3

**Coming Soon**



## Specifications

<b>Processor</b>	CPU	Intel® Bay Trail D-J1900/M-N2920 Processor	
	CPU Type	BGA-1170 pin	
	Front Side Bus	N/A	
	Chipset	N/A	
	BIOS	AMI 128Mbit SPI	
<b>Memory</b>	Technology	Dual-channel DDR3L 1333/1066MHz (non-ECC)	
	Max. Capacity	Up to 8GB	
	Socket	2 x 204-pin SO-DIMMs	
<b>Display</b>	Graphic Controller	Within CPU	
	LVDS	Yes (dual channel 24-bit)	
	eDP	N/A	
	VGA	Yes	
	DVI	N/A	
	HDMI	Yes	
	DisplayPort	N/A	
Display Mode	2 independent displays supported		
<b>Ethernet</b>	Controller	2 x Intel® I210-AT PCIe GbE LAN	
	Controller	Realtek® ALC887 HD Audio Codec	
<b>Audio</b>	Controller	Fintek F81866	
<b>Super I/O</b>	Controller	Fintek F81866	
	Watchdog Timer	255-level Watchdog Timer	
<b>H/W Monitor</b>	Smart Fan	Yes	
	TPM	1 x 27-pin header for TPM module expansion	
<b>I/O Interfaces</b>	USB	8 x USB 2.0 (4 x internal; 4 x rear); 1 x USB 3.0 (1 x internal)	
	Serial	6 COM ports (COM1-2: rear; COM3-6: internal) COM1: RS232/422/485, 0V/5V/12V COM2-6: RS-232, 0V/5V/12V	
	Parallel	N/A	
	PS/2	1 x PS/2 pin header	
	GPIO	8-bits (4 x GPI; 4 x GPO)	
	<b>Expansion Slot</b>	PCIe x 16	N/A
		PCIe x 4	N/A
		PCIe x 1	N/A
		PCI	Yes
		Mini-PCle	1 (With mSATA function)
<b>Storage</b>	SATA	1 x SATA 2.0	
	IDE	N/A	
	eSATA	N/A	
	CFast	N/A	
	mSATA	1 (shared with Mini-PCle slot)	
	CompactFlash	N/A	
	<b>Power Requirement</b>	Power Adaptor	ATX, DC-in 12V/19V/ 24V
Power Supply		N/A	
<b>Environment</b>	Operating Temperature	0 ~ 60°C	
	Operating Humidity	10 ~ 90%, non-condensing	
	Storage Temperature	-20 ~ 80°C	
	Storage Humidity	10 ~ 90%, non-condensing	
<b>Form Factor</b>	Dimensions	170mm x 170mm (Mini-ITX)	
	Weight	0.37 kg	
<b>Certification</b>	EMC	FCC, CE, C-Tick, VCCI, BSMI	

## Features

- Support Intel® Bay Trail Quad Core 2GHz Processor
- Multiple video outputs: HDMI, VGA, and LVDS
- Intel® Gen7 graphics technology
- Optional DC/ATX power input by BOM

## Ordering Information

Nr.	Beschreibung	Beschreibung 2
132221	MS-98E3-DC	Mini-ITX, J1900, DC
131730	MS-98E3-ATX	Mini-ITX, J1900, ATX