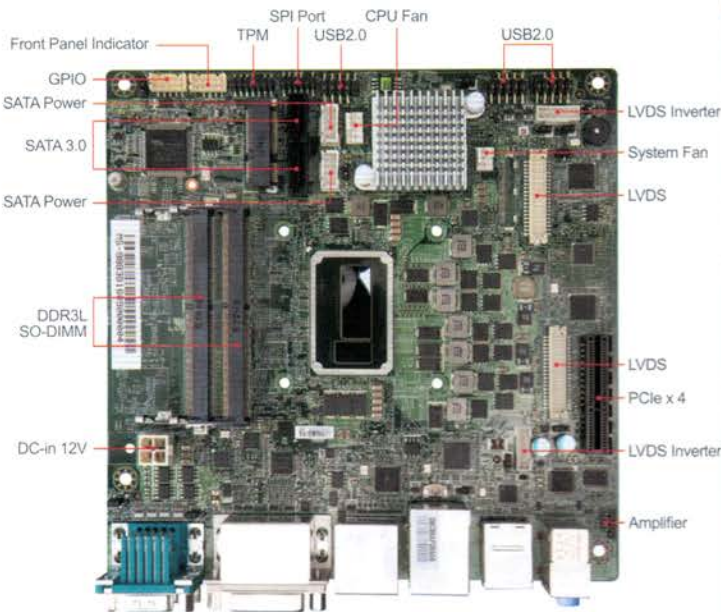


MS-98B3

Mini-ITX SBC with Intel® Skylake/Kaby Lake for Multi Displays and High Graphic Performance Solutions

NEW



Features

- Embedded Motherboard for high graphic performance application, medical, gaming or high-end digital signage
- Supports Intel® Skylake/Kaby Lake Mobile H Core™ i series & equip Intel® GT4e graphic engine by CPU SKU, up to 45 W
- Full HW decode & encode HEVC H.265 high-efficient video media
- Supports 2 x DDR4, 1866/2133 MHz memory up to 32GB, ECC by SKU with CM236 PCH
- Multi displays support up to 4K/2K HD resolution, 60Hz
- Supports dual GbE LAN, iAMT 11.0 (Intel IOTG Core i5/i7 CPU + QM170/CM236)
- Supports 1xPCIe(x4), 6xUSB2.0, 4xUSB3.0, 2xRS-232/422/485, 2xSATA3.0, 2xmini-PCIe

Ordering Information

Part Number	Description
Coming soon	

Packing List

Part Number	Description	Quantity
Coming soon		

Specifications

Processor	CPU	6th/7th Gen Intel® Mobile-H Kaby Lake/Skylake Core™ Xeon® / Core™ i7/i5/i3/Celeron® Processor, Max. 45W		
	Frequency	2.3GHz~3.9 GHz (Depends on CPU)		
	L2 Cache	3M~8M (Depends on CPU)		
	CPU Type	BGA		
	Chipset	Intel® HM170/QM170/CM236 Express		
Memory	BIOS	AMI		
	Technology	Dual-channel DDR4 1866/2133 MHz		
	Max. Capacity	Up to 32 GB		
	Socket	2 x 260-pin SO-DIMMs		
Display	Controller	Intel® Iris™ Graphics/HD Graphics (depends on CPU)		
	Graphic Memory	Shared system memory up to 1.7 GB SDRAM		
	LVDS	2 x Dual channel 24-bit (LVDS1 co-design with eDP, LVDS2 co-design with DVI-D)		
	eDP	1		
	DVI	1 (DVI-I)	N/A	
	HDMI	2(1 x HDMI2.0, 1 x HDMI1.4 colay with DP)		
	DisplayPort	1(Colay with HDMI1.4)		
	Multiple Display	3 independent displays		
	Display Interface	LVDS up to 1920 x 1200	LVDS up to 1920 x 1200	
		eDP up to 4096 x 2304	eDP up to 4096 x 2304	
Ethernet	Controller	Intel® I219-LM LAN PHY	Intel® I219-LM LAN PHY	
		Intel® I210 colay I211 LAN		
Audio	Controller	Realtek® ALC887 HD Audio (co-lay ALC888)		
Super I/O	Controller	Fintek FB1866AD-I		
H/W Monitor	Watchdog Timer	256-level Watchdog Timer		
	Smart Fan	Yes		
TPM	Controller	Pin header(default) TPM2.0 infineon SLB 9665(By BOM option)		
	USB	4 x USB3.0 (rear) 6 x USB2.0 (internal)	2 x USB3.0 (rear) 6 x USB2.0 (internal)	
I/O Interface	Serial	2 x COM (rear) RS-32/422/485, 0V/5V/12V	1 x COM (rear) RS-32/422/485, 0V/5V/12V	
	PS/2	N/A		
	GPIO	8-bits (4 x GPI; 4 x GPO),5V		
Expansion Slot	PCIe x4	1		
	PCI	N/A		
	Mini-PCIe	2(1 x Full size colay mSATA, 1 x Half size)		
Storage	SATA	2 x SATA3.0		
	mSATA	1(Support by mini PCIe slot)		
Power Supply	DC	DC-in 12V		
	ATX	N/A		
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	170mm x 170mm (Mini-ITX)		
	Weight	0.37 kg		
Certification	EMC	FCC, CE, C-Tick, VCCI, BSMI		
Software Platform	OS Support	Windows 7 (32/64-Bit)		
		Windows 8.1 (64-Bit) Windows 10 (64-Bit) Linux Kernel 4.4		