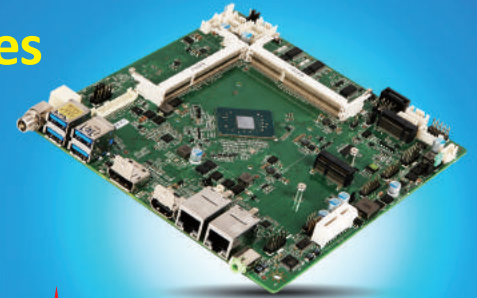


Thin Mini-ITX Solution

Intel[®] Apollo Lake / Apollo Lake-I Series

- Low Profile Design
- Fanless Design
- Rich I/O & Expansion Slots
- Three Independent Displays
- 4K2K High Resolution



Model Name		MS-9892		MS-98B1		MS-98J0	
Processor	CPU	Intel [®] Pentium [®] Processor N4200, QC, 6W Intel [®] Celeron [®] Processor N3350, DC, 6W	Intel [®] Atom [™] x5 Processor E3940, QC, 9.5W Intel [®] Atom [™] x5 Processor E3930, DC, 6.5W	Intel [®] Celeron [®] Processor N3350, DC, 6W Intel [®] Atom [™] x5 Processor E3940, QC, 9.5W		Intel [®] Celeron [®] Processor N3350, DC, 6W Intel [®] Atom [™] x5 Processor E3940, QC, 9.5W	
Memory	Technology	Dual-channel DDR3L 1866 MHz					
	Max. Capacity	Up to 8 GB					
Display	Controller	Intel [®] HD Graphics					
	LVDS	1 x Dual channel 18/24-bit		1 x Dual channel 18/24-bit (Signal shared w/ eDP)		1 x Dual channel 18/24-bit	
	eDP	1 (Signal shared w/ LVDS)		1 (by BOM option)			
	VGA	N/A				1 (by BOM option)	
	HDMI	1 (Co-lay DP)					
	DisplayPort	1 (Co-lay HDMI)		2 (One Signal shared w/ eDP)		1 (Co-lay VGA)	
	Multiple Display	3 independent displays					
Ethernet	Controller	2 x Intel [®] I211-AT GbE LAN	2 x Intel [®] I210-IT GbE LAN	2 x Intel [®] I211-AT GbE LAN (Co-lay I210-AT GbE LAN)		2 x Realtek [®] RTL8111H-CG GbE LAN	
Audio	Controller	Realtek [®] ALC887-VD2-CG HD Audio Codec					
I/O Interfaces	USB	4 x USB3.0 (Rear) 6 x USB2.0 (Internal)		4 x USB3.0 (Rear) 5 x USB2.0 (Internal)		4 x USB3.0 (Rear) 3 x USB2.0 (Internal)	
	Serial	6 x COM ports (Internal) COM1~2: RS-232/422/485, 0V/5V/12V COM3~6: RS-232, W/O Power				6 x COM ports (Internal) COM1: RS-232/422/485, 0V/5V/12V COM2~6: RS-232, W/O Power	
	PS/2	1 (Pin Header)					
	GPIO	16-bits (8 x GPI; 8 x GPO), 5V				8-bits (4 x GPI; 4 x GPO), 5V	
	PCIe x 1	1					
	M.2	N/A		1 x M Key (SATA 3.0), 2242 1 x E Key (PCIe x1, USB2.0), 2230			
Storage	SATA	2 x SATA 3.0 (SATA2 share with mSATA)		2 x SATA 3.0 (SATA2 share with M.2 M Key)		1 x SATA 3.0	
	mSATA	1 (share with SATA2)		N/A			
Power Supply	DC	DC-in 12V~24V		DC-in 12/19/24V		DC-in 12V	
Environment	Operating Temperature	-10 ~ 60°C		-40 ~ 85°C		-10 ~ 60°C	
	Operating Humidity	10 ~ 90%, non-condensing					
	Storage Temperature	-20 ~ 80°C		-40 ~ 85°C		-20 ~ 80°C	
	Storage Humidity	10 ~ 90%, non-condensing					
Form Factor	Dimensions	170 x 170mm (Mini-ITX)					
	Weight	0.37 kg					
Certification	EMC	FCC, CE, RCM, VCCI, BSMI					
Software Platform	OS Support	Windows 10 (64-bit) Linux Fedora 25 (by request) Linux Ubuntu 16.04 (by request)					

