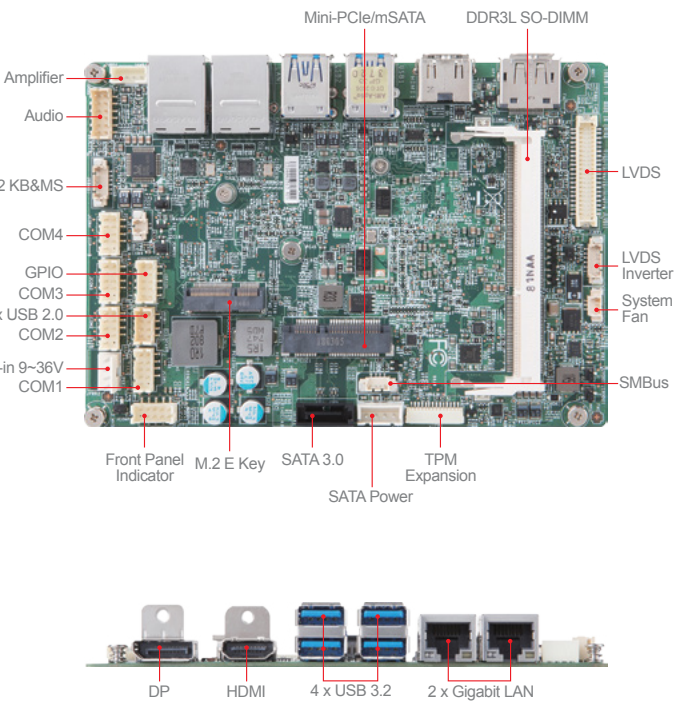


MS-98J8

3.5" SBC with Intel® Apollo Lake/Apollo Lake-I for Fanless, Ultra Low-Power, Wide Voltage Range & High-Performance Solution

NEW



Features

- Intel® Apollo Lake/Apollo Lake-I Series SoC
- DDR3L 1866/1600 MHz SODIMM Slot up to 8GB
- Triple independent displays: DP, HDMI, LVDS
- 2 GbE LAN with RJ-45
- 1 M.2 E Key, Mini-PCIe (Full size, with mSATA) Slot
- SATA 3.0 for storage
- 4 USB 3.2 Gen 1, 2 USB 2.0, 4 COM (1 RS-485), GPIO, PS/2, Audio
- Wide Voltage DC-IN 9~36V

Ordering Information

Part Number	Description
919-98J8-001	MS-98J8 10 OPT:A Intel Apollo Lake N3350,DDR3L,DP+HDMI+LVDS, 1*SATA3.0 +2*GbE LAN+1*M.2+1*Mini-PCIe (with mSATA) +2*USB2.0+4*USB3.0+4*COM,DC-in 9V~36V, SINGLE
919-98J8-003	MS-98J8 10 OPT:E Intel Apollo Lake-I E3940,F1 stepping,DDR3L,HDMI+LVDS+DP+SATA3.0 +2*LAN+1*M.2+1*Mini-PCIe (with mSATA) +2*USB2.0+4*USB3.0+4*COM,Non-WT DC-in 9V~36V, Single

Packing List

Part Number	Description	Quantity
K14-1009062-V03	COM PORT Cable, 250mm	1
K1B-3008034-V03	USB Cable, 150mm	1
K1D-1012064-V03	SATA Cable with Power, 200mm	1
K1G-3004069-V03	DC Power Cable, 150mm	1
G71-SEDC182-X03/N56	Driver DVD	1

Optional Item

Part Number	Description	Quantity
E31-0805810-K08	Heatspreader for Apollo Lake	1
E31-0805820-K08	Heatspreader for Apollo Lake-I	1

Specifications

Processor	CPU	Intel® Pentium® Processor N4200 , QC, 6W Intel® Celeron® Processor N3350, DC, 6W Intel® Celeron® Processor J3455, QC, 10W Intel® Atom™ X5 Processor E3940, QC, 9.5W Intel® Atom™ X5 Processor E3930, DC, 6.5W
	Frequency	N4200, 1.1 GHz, up to 2.5 GHz N3350, 1.1 GHz, up to 2.4 GHz J3455, 1.5 GHz, up to 2.3 GHz E3940, 1.6 GHz, up to 1.8 GHz E3930, 1.3 GHz, up to 1.8 GHz
	L2 Cache	2M
	CPU Type	BGA
Memory	Chipset	Integrated in SoC
	BIOS	AMI
	Technology	Single Channel for DDR3L 1866/1600 MHz
	Max. Capacity	Up to 8GB
Display	Socket	1 x 204pin SO-DIMM
	Controller	Intel® HD Graphics
	Graphic Memory	Depends on CPU
	LVDS	Dual channel 18/24-bit
	eDP	N/A
	VGA	N/A
	DVI	N/A
	HDMI	1
	DisplayPort	1
	Multiple Display	3 independent displays
Ethernet	Controller	2 x Realtek® RTL8111H GbE LAN
	Controller	Realtek® ALC887 HD Audio Codec
Super I/O	Controller	Fintek F81867AD-I
	Watchdog Timer	256-level Watchdog Timer
H/W Monitor	Smart Fan	Yes
	TPM	Controller
I/O Interface		USB
	Serial	4 x COM ports (Internal) COM1: RS-232/422/485, 0V/5V/12V COM2~4: RS-232
	Parallel	N/A
	PS/2	1 (wafer connector)
	GPIO	8-bit (4 x GPI; 4 x GPO), 5V
	Expansion Slot	PCIe x 16
PCIe x 4		N/A
PCIe x 1		N/A
PCI		N/A
M.2		1 x M.2 E key (PCIe x1, USB 2.0), 2230
Storage	Mini-PCIe	1 x Full-size (w/ mSATA)
	SATA	1 x SATA 3.0
	IDE	N/A
	eSATA	N/A
	CFast	N/A
Power Supply	mSATA	1 (Shared with Mini-PCIe)
	CompactFlash	N/A
	DC	DC-in 9~36V
Environment	ATX	N/A
	Operating Temperature	-10 ~ 60°C
	Operating Humidity	10 ~ 90%, non-condensing
	Storage Temperature	-20 ~ 80°C
	Storage Humidity	10 ~ 90%, non-condensing
Form Factor	Dimensions	146 x 102mm (3.5")
	Weight	0.33 kg
Certification	EMC	CE, FCC Class B, BSMI, VCCI, RCM
	Software Platform	OS Support