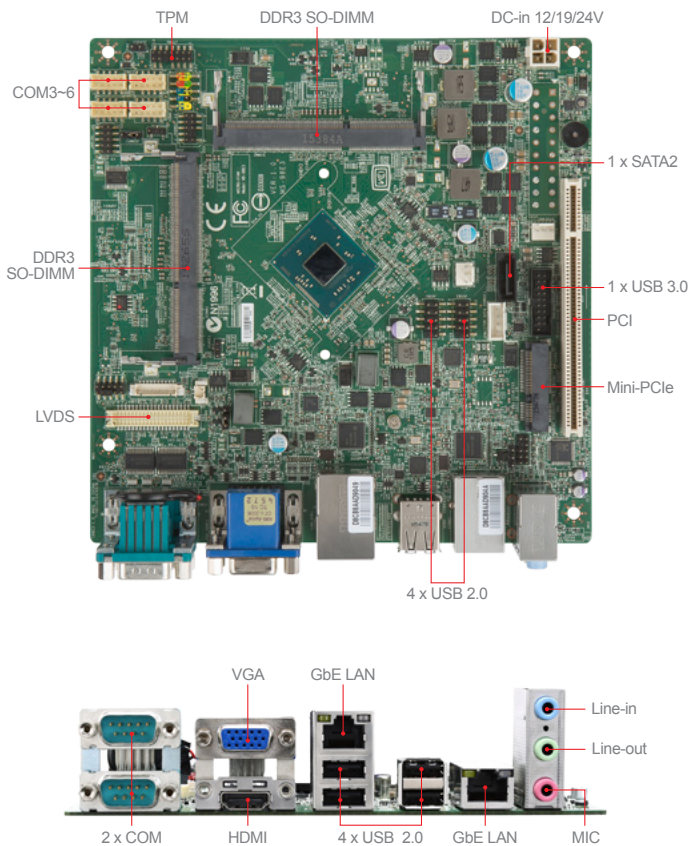


MS-98E3

Mini-ITX with Intel® Atom™ Bay Trail for Multi-Displays and DC/ATX Solution



Features

- Intel® Celeron® Processor J1900/N2930 Quad Core 1.86/2GHz processor (formerly BayTrail)
- Embedded Mini-ITX Motherboard with low power and fanless design
- Multiple video outputs: HDMI, VGA, and LVDS
- Supports 6xCOMs, 8xUSB 2.0, 1xUSB 3.0
- Low power and fanless design
- Power input: DC 12V/19/24V or ATX (by BOM)

Ordering Information

Part Number	Description
919-98E3-001	MS-98E3 10 Intel Bay Trail D sku-J1900, DC, 1*Mini PCI_E+2*DDR3L SO DIMM, 1*PCI, 1*mini PCIe (with msata function), 8*USB 2.0, 1*USB 3.0, 6*COM
919-98E3-002	MS-98E3 10 OPT: A Intel Bay Trail D sku-J1900, ATX-, 1*Mini PCI_E+2*DDR3L SO DIMM, 1*PCI, 1*mini PCIe (with msata function), 8*USB 2.0, 1*USB 3.0, 6*COM

Packing List

Part Number	Description	Quantity
K10-3004215-V03	DC power cable, 160mm	1
K1D-1012064-V03	SATA cable, 200mm	1
E21-98E3020-C22	I/O shield	1
G71-SEDC113-X03	Driver CD	1

Specifications

Processor	CPU	Intel® Celeron® Processor J1900, QC, 10W Intel® Celeron® Processor N2930, QC, 7.5W
	Frequency	J1900, 2.0 GHz, up to 2.42 GHz N2930, 1.83 GHz, up to 2.16 GHz
	L2 Cache	2 MB
	CPU Type	BGA
	Chipset	Integrated
Memory	BIOS	AMI
	Technology	Dual-channel DDR3L 1333/1066 MHz
	Max. Capacity	Up to 8 GB
Display	Socket	2 x 204-pin SO-DIMMs
	Controller	Intel® HD Graphics
	Graphic Memory	Shared system memory up to 1.7 GB SDRAM
	LVDS	Dual Channel 24-bit (add chrontel 7511B chipset)
Ethernet	VGA	1
	HDMI	1
	Multiple Display	2 independent displays
	Display Interface	VGA up to 2560 x 1600 HDMI up to 1920 x 1080 LVDS up to 1920 x 1200
Audio	Controller	2 x Intel® i210-AT GbE LAN
Super I/O	Controller	Realtek® ALC887 HD Audio Codec
H/W Monitor	Controller	Fintek F81866AD-I
TPM	Watchdog Timer	256-level Watchdog Timer
	Smart Fan	Yes
I/O Interface	Controller	Pin header
	USB	8 x USB 2.0 (4 x internal; 4 x rear) 1 x USB 3.0 (internal)
	Serial	6 x COM (COM1~2: rear; COM3~6: internal) COM1: RS-232/422/485, 0V/5V/12V COM2~6: RS-232, 0V/5V/12V
	PS/2	1 (Pin header)
	GPIO	8-bits (4 x GPI, 4 x GPO), 5V
	PCI	1
Expansion Slot	M.2	N/A
	Mini-PCle	1 x Full-size (w/ mSATA)
Storage	SATA	1 x SATA 2.0
	mSATA	1
Power Supply	DC	DC-in 12V/19V/24V
	ATX	ATX-Power 20P
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, RCM, VCCI, BSMI
Software Platform	OS Support	Windows 8 (64-bit)

Optional Items

Part Number	Description
K14-1018003-V03	COM port cable, 300mm
K1B-3008012-E06	USB2.0 cable, 330mm