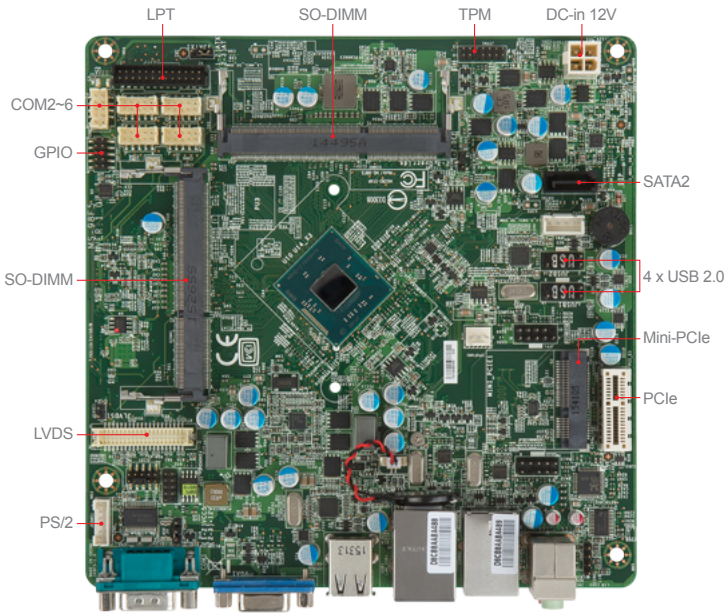
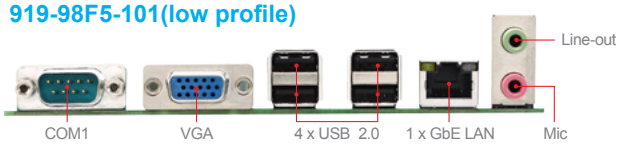
MS-98F5

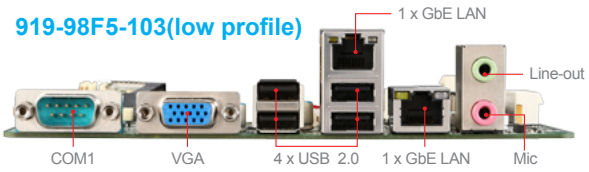
Mini-ITX with Intel® Atom™ Bay Trail for Low-Power and Low-Profile Solution



919-98F5-101(low profile)



919-98F5-103(low profile)



Features

- Intel® Celeron® Processor J1900/N2930 Quad Core 1.86/2GHz processor (formerly BayTrail)
- Embedded Mini-ITX Motherboard with low power, slim and fanless design
- Supports LVDS, VGA display
- Supports 6xCOMs and 8xUSB 2.0
- Entry level with best-value for choice

Ordering Information

Part Number	Description
919-98F5-101	MS-98F5\MS-98F5\609-98F5-010\809-98F5-102\MS-98F5 VER 10 OPT A FOR MS-98F5 STD SKU, 1 LAN, 1 SO-DIMM BULK
919-98F5-103	MS-98F5\MS-98F5\609-98F5-020\809-98F5-101\MS-98F5 VER 10 OPT B FOR MS-98F5 STD SKU, 2 LAN, 2 SO-DIMM BULK

Packing List

Part Number	Description
E21-98F5010-C22	I/O Shield (2 x LAN)
E21-98F5020-C22	I/O Shield (1 x LAN)
G71-SEDC117-X03	Driver CD
K10-3004215-V03	DC power cable, 160mm
K1D-1012064-V03	SATA cable, 200mm

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
	BIOS	AMI
Memory	Technology	Dual-channel DDR3L 1333/1066 MHz
	Max. Capacity	Up to 8 GB
	Socket	2 or 1 x 204-pin SO-DIMMs (depends on SKU)
Display	Controller	Intel® HD Graphics
	Graphic Memory	Shared system memory up to 1.7 GB SDRAM
	LVDS	Daul Channel 24-bit (add chrontel 7511B chipset)
	VGA	1
	Multiple Display	2 independent displays
	Display Interface	VGA up to 2560 x 1600 LVDS up to 1920 x 1200
Ethernet	Controller	2 or 1 x Realtek® RTL8111G-CG GbE LAN (depends on SKU)
Audio	Controller	Realtek® ALC887 HD Audio Codec
Super I/O	Controller	Fintek F81866AD-I
H/W Monitor	Watchdog Timer	256-level Watchdog Timer
	Smart Fan	Yes
TPM	Controller	Pin header
I/O Interface	USB	8 x USB 2.0 (4 x internal; 4 x rear)
	Serial	6 x COM (COM1: rear, COM2~COM6: internal) COM1: RS-232, 0V/5V/12V COM 2~6: RS-232, w/o power
	Parallel	1 (Pin header)
	PS/2	1 (Pin header)
	GPIO	8-bits (4 x GPI, 4 x GPO), 3.3V
Expansion Slot	PCIe x1	1
	M.2	N/A
	Mini-PCIe	1 x Full-size (w/ mSATA)
Storage	SATA	1 x SATA 2.0
	mSATA	1
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, RCM, VCCI, BSMI
Software Platform	OS Support	Windows 8 (32/64-bit) Windows 10 (64-bit)

Optional Items

Part Number	Description
K14-1018003-V03	COM port cable, 300mm
K1B-3008012-E06	USB 2.0 cable, 330mm