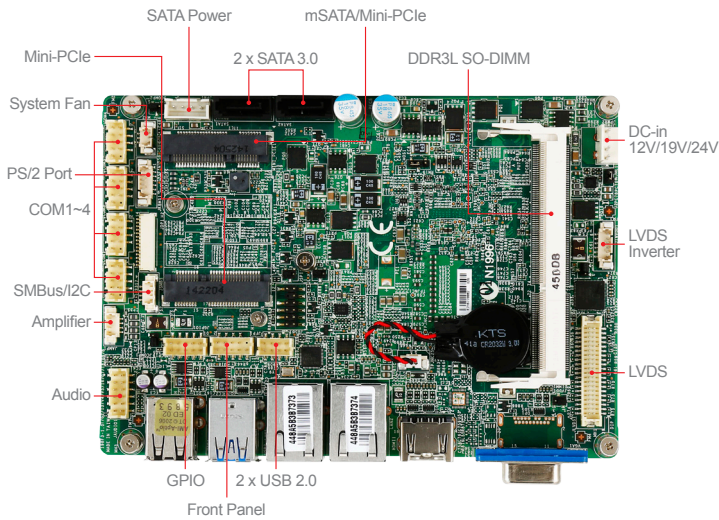


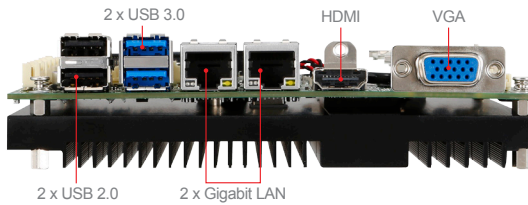
MS-98F3

Intel® HSW/BDW ULT Series Platform in 3.5" SBC with Fanless Design for Low Power and High Performance Solution

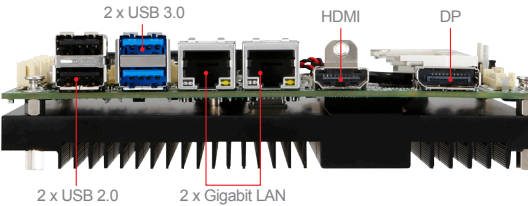
NEW



919-98F3-009/919-98F3-011/919-98F3-012/919-98F3-013
919-98F3-014/919-98F3-016/919-98F3-017



919-98F3-010/919-98F3-015



Features

- Intel® HSW/BDW ULT Series Processors
- Support DDR3L 1600 MHz SO-DIMM memory up to 8GB
- HDMI and VGA/DP and LVDS display interfaces
- Dual GbE LAN, USB 3.0, and 4 COM
- Dual Mini-PCle, dual SATA 3.0, and mSATA

Ordering Information

Part Number	Description
919-98F3-012	MS-98F3 11 OPT:C Intel HSW ULT i7-4650U,DDR3 SO DIMM+VGA+HDMI+LVDS+2*Mini-PCle+2*LAN+2*SATA3.0+2*USB3.0+4*USB 2.0+4*COM,DC 12V/19V/24V
919-98F3-013	MS-98F3 11 OPT:D Intel BDW ULT i3-5010U,DDR3 SO DIMM+VGA+HDMI+LVDS+2*Mini-PCle+2*LAN+2*SATA3.0+2*USB3.0+4*USB 2.0+4*COM,DC 12V/19V/24V
919-98F3-014	MS-98F3 11 OPT:E Intel BDW ULT i7-5650U,DDR3 SO DIMM+VGA+HDMI+LVDS+2*Mini-PCle+2*LAN+2*SATA3.0+2*USB3.0+4*USB 2.0+4*COM,DC 12V/19V/24V
919-98F3-015	MS-98F3 11 OPT:F Intel BDW ULT i3-5010U,DDR3 SO DIMM+DP+HDMI+LVDS+2*Mini-PCle+2*LAN+2*SATA3.0+2*USB3.0+4*USB 2.0+4*COM,DC 12V/19V/24V
919-98F3-016	MS-98F3 11 OPT:G Intel BDW ULT i5-5350U,DDR3 SO DIMM+VGA+HDMI+LVDS+2*Mini-PCle+2*LAN+2*SATA3.0+2*USB3.0+4*USB 2.0+4*COM,DC 12V/19V/24V

Packing List

Part Number	Description	Quantity
G71-SEDC129-X03	Driver DVD	1
K10-3002145-V03	DC Power Cable, 120mm	1
K14-1009062-V03	COM Port Cable, 250mm	1
K1B-3008034-V03	USB Cable, 150mm	1
K1D-1012064-V03	SATA Cable with Power, 200mm	1
K1D-3008006-V03	SATA Cable, 300mm	1

Specifications

Processor	CPU	Intel® HSW ULT i3-4010U/i5-4300U/i7-4650U Processor Intel® BDW ULT Celeron 3765U/ i3-5010U/i5-5350U/i7-5650U ProcessorIntel®
	Frequency	N/A
	L2 Cache	N/A
	CPU Type	BGA
	Chipset	N/A
	BIOS	AMI
Memory	Technology	Single-channel for DDR3L 1600 MHz
	Max. Capacity	Up to 8GB
	Socket	1 x 204-pin SO-DIMM
Display	Controller	Intel® HD Graphics
	Graphic Memory	Shared system memory up to 1.7 GB SDRAM
	LVDS	Dual channel 18/24-bit
	VGA	1 (optional)
	HDMI	1
	DisplayPort	1 (optional)
	Multiple Display	3 independent displays
Display Interface	VGA up to 1920 x 1200	
	HDMI up to 1920 x 1080 LVDS up to 1920 x 1200 DP up to 3200 x 2000	
Ethernet	Controller	1 x Intel® I210-AT GbE LAN 1 x Intel® I218-LM GbE LAN PHY
	Controller	Realtek® ALC887-VD2-CG HD Audio Codec
Super I/O	Controller	Fintek F81866AD-I
H/W Monitor	Watchdog Timer	256-level Watchdog Timer
TPM	Controller	N/A
I/O Interface	USB	4 x USB 2.0 (2 x internal; 2 x rear) 2 x USB 3.0 (2 x rear with USB 2.0 signal)
	Serial	4 x COM (internal) COM1: RS-232/422/485, 0V/5V/12V COM2~4: RS-232, 0V/5V/12V
	PS/2	1 (pin header)
	GPIO	8-bits (4 x GPI; 4 x GPO), 5V
Expansion Slot	Mini-PCle	1 x Full-size (w/ mSATA) 1 x Half-size
	SATA	2 x SATA 3.0
Storage	mSATA	1
	Power Supply	DC
Environment	ATX	N/A
	Operating Temperature	-10 ~ 60°C
	Operating Humidity	10 ~ 90%, non-condensing
	Storage Temperature	-20 ~ 80°C
Form Factor	Storage Humidity	10 ~ 90%, non-condensing
	Dimensions	146mm x 102mm (3.5")
Certification	Weight	0.56 kg
	EMC	FCC, CE, C-Tick, VCCI, BSMI