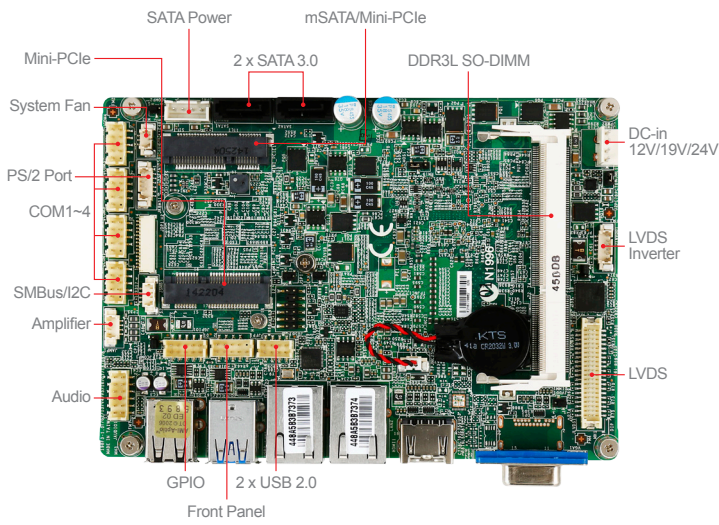


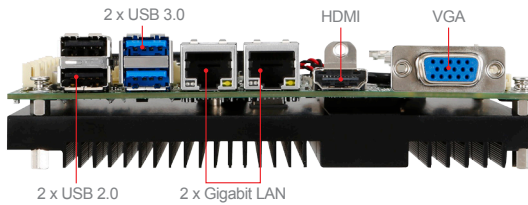
MS-98F3

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

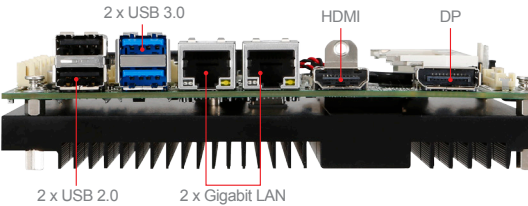
NEW



919-98F3-001/919-98F3-003/919-98F3-004/
919-98F3-005/919-98F3-006/919-98F3-008



919-98F3-002/919-98F3-007



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
919-98F3-004	MS-98F3 10 OPT:J 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
919-98F3-005	MS-98F3 10 OPT:E 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
919-98F3-006	MS-98F3 10 OPT:H 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
919-98F3-007	MS-98F3 10 OPT:K 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
919-98F3-008	MS-98F3 10 OPT:L 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 i3-5010U/i5-5350U/i7-5650U Processor	
	Frequency	N/A	
	L2 Cache	N/A	
	CPU Type	BGA	
	Chipset	N/A	
Memory	BIOS	AMI	
	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	
	eDP	N/A	
	VGA	1 (optional)	
	DVI	N/A	
	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	
Audio	Controller	Realtek® ALC887-VD2-CG HD Audio Codec	
Super I/O	Controller	Fintek F81866AD-I	
H/W Monitor	Watchdog Timer	256-level Watchdog Timer	
	Smart Fan	N/A	
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	
	Parallel	N/A	
	PS/2	1 (pin header)	
	GPIO	8-bits (4 x GPI; 4 x GPO), 5V	
	Expansion Slot	PCIe x16	N/A
		PCIe x4	N/A
PCIe x1		N/A	
PCI		N/A	
Mini-PCle		1 x Full-size (w/ mSATA) 1 x Half-size	
Storage		SATA	2 x SATA 3.0
	IDE	N/A	
	eSATA	N/A	
	CFast	N/A	
	mSATA	1	
Power Supply	CompactFlash	N/A	
	DC	DC-in 12V/19V/24V	
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")	
	Weight	0.56 kg	
Certification	EMC	FCC, CE, C-Tick, VCCI, BSMI	

HMI Panel PC
Embedded System Board
Embedded Board
Semi-rugged Tablet PC
COM Express Board
Osseven Board
Pico-ITX Board
3.5" Board
EPIC Board
PICMG 1.0 Board
Mini-ITX Board
Micro-ATX Board
ATX Board