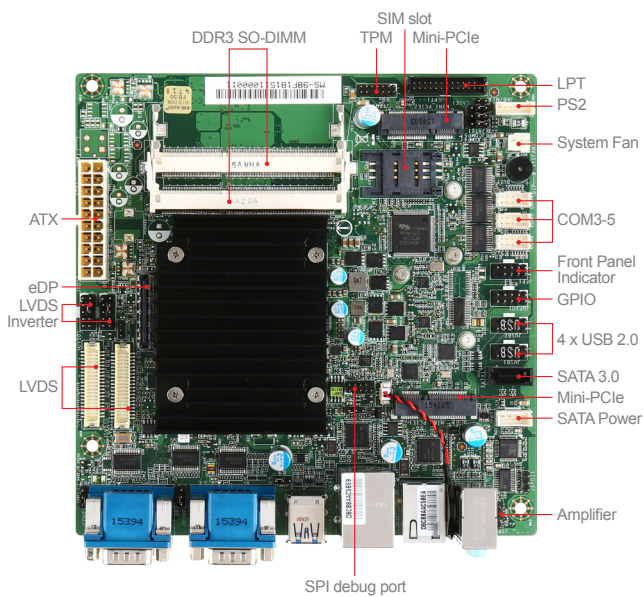


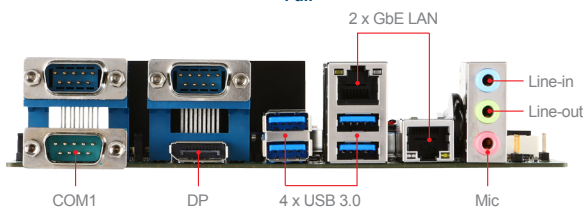
MS-98F1

Low Power Fanless Solution with Intel® Braswell N3000 Series SoC

NEW



Full



Low profile



Features

- Supports BGA-type Intel® Braswell N3700/N3150/N3050/N3000
- Low power and fanless design
- 3 independent displays with optional inputs: 1 or 2 DP, 1 or 2 LVDS, 1 eDP (by BOM)
- Optional SKU with 4 USB 2.0, 4 USB 3.0, 4 or 6 COM; SATA 3.0 supported
- Dual Intel® LAN and dual mini-PCIe slots
- Onboard TPM with optional connection via pin header
- Power input: DC 12V/19/24V or ATX (by BOM)

Ordering Information

Part Number	Description
919-98F1-101	OPT: A Intel Braswell N3050+2*DDR3L+1*SATA 3.0 +1*DP+1*LVDS+1*LVDS colay eDP+4*COM+1*GbE LAN+2*Mini-PCIe+DC Power
919-98F1-102	OPT: B Intel Braswell N3150+2*DDR3L+1*SATA 3.0+1*DP+1*LVDS+1*LVDS colay eDP+6*COM+2*GbE LAN+2*Mini-PCIe+ATX Power

Packing List

Part Number	Description
K1D-1012064-V03	SATA CABLE
K10-3004215-V03	DC POWER CABLE For OPT: A
E21-98F1010-C22	I/O SHIELDING For OPT: A
E21-98F1020-C22	I/O SHIELDING For OPT: B
G71-SEDC153-N56/X03	DRIVER CD

Specifications

Processor	CPU	Intel® Braswell N3700/N3710/N3150/N3160/N3050/N3060/N3000/N3010	
	Frequency	Depends on CPU	
	L2 Cache	Depends on CPU	
	CPU Type	BGA	
	Chipset	Integrated	
Memory	BIOS	AMI	
	Technology	Dual-channel DDR3L 1333/1600 MHz	
	Max. Capacity	Up to 8GB	
Display	Socket	2 x 204-pin SO-DIMM	
	Controller	Intel® HD Graphics	
	Graphic Memory	Shared system memory up to 1.7 GB SDRAM	
	LVDS	2 x dual channel 18/24-bit	
	eDP	1 (colay with LVDS)	
	DisplayPort	1	
	Multiple Display	3 independent displays	
Display Interface	LVDS up to 1920 x 1200		
	DP up to 3840 x 2160		
eDP up to 2560 x 1600			
Ethernet	Controller	2 x Intel® i210-AT GbE LAN	1 x Intel® i210-AT GbE LAN
Audio	Controller	Realtek® ALC887 co-lay ALC885S	
Super I/O	Controller	Fintek F81866AD-I	
H/W Monitor	Watchdog Timer	256-level Watchdog Timer	
	Smart Fan	Yes	
TPM	Controller	Pin header (default)	
		Infineon SLB9635TT 1.2 (by BOM option)	
I/O Interface	USB	4 x USB3.0 (rear)	4 x USB3.0 (rear)
		4 x USB2.0 (internal)	4 x USB2.0 (internal)
	Serial	4 x COM (1 x rear, 3 x internal)	
		COM1: RS-232, 0V/5V/12V	
		COM2: RS-232, 0V/5V/12V	
		COM3: RS-232, 0V/5V/12V	
		COM4: RS-232, 0V/5V/12V	
		COM5: RS-232, 0V/5V/12V	
	Parallel	1	
		PS/2	
GPIO		8-bits (4 x GPI; 4 x GPO), 5V	
Expansion Slot	Mini-PCIe	2 (support Full/Half-size, one w/ SIM holder, one supports mSATA)	
	SATA	1 x SATA 3.0	
	mSATA	1 (supported by mini PCIe slot)	
Storage	CompactFlash	N/A	
	Power Supply	DC	DC-in 12V/19V/24V
Environment	ATX	ATX Power 20P	
	Operating Temperature	0 ~ 60°C	
	Operating Humidity	10 ~ 90%, non-condensing	
	Storage Temperature	-20 ~ 80°C	
Form Factor	Storage Humidity	10 ~ 90%, non-condensing	
	Dimensions	170mm x 170mm (Mini-ITX)	
	Weight	0.37 kg	
Certification	EMC	FCC, CE, C-Tick, VCCI, BSMI	