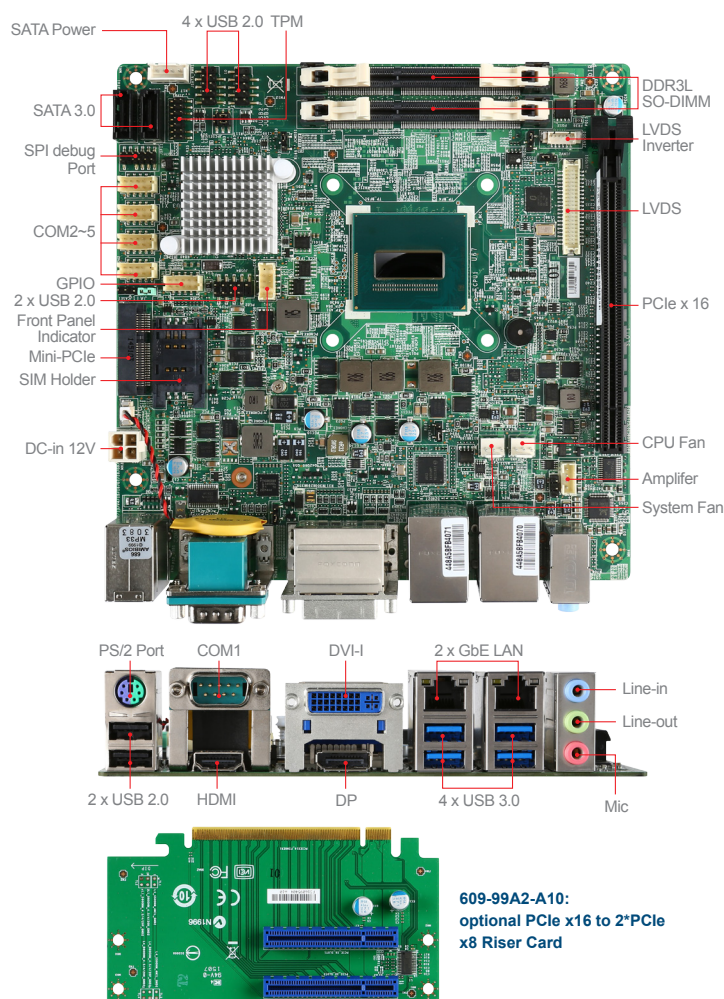


MS-98G5

4th Gen Intel® QM87/HM86 Platform with Multi-displays

NEW



Features

- BGA-type Haswell/Broadwell Mobile Core i7/i5/i3/Celeron Processor
- 3 independent displays with HDMI, DP, DVI-I, and LVDS
- Dual GbE LAN with iAMT (EIA+QM87)
- 2 x DDR3L 1333/1600 MHz memory up to 16GB
- 1 x PCIe(x16) with riser card extends to x8+x8 or x8+x4+x4
- 8 USB 2.0; 4 USB 3.0; 5 COM; SATA 3.0 supported
- 2 mini-PCle slots
- Auto-switch DC power 12V/19V

Ordering Information

Part Number	Description
919-98G5-001	MS-98G5/609-98G5-010/809-98G5-003 STD VER 1.0, OPT A, Intel i5-4210H, HM86, 2*DDR3L, 1*COOLER, 1*COM CABEL, 1*I/O SHIELD, 1*SATA CABLE, 1*PS2 Y CABLE
919-98G5-002	MS-98G5/609-98G5-020/809-98G5-003 STD VER 1.0, OPT E, Intel i5-4410E, QM87, 2*DDR3L, 1*COOLER, 1*COM CABEL, 1*I/O SHIELD, 1*SATA CABLE, 1*PS2 Y CABLE
919-98G5-003	MS-98G5/609-98G5-030/809-98G5-003 STD VER 1.0, OPT F, Intel i7-4700EQ, QM87, 2*DDR3L, 1*COOLER, 1*COM CABEL, 1*I/O SHIELD, 1*SATA CABLE, 1*PS2 Y CABLE

Packing List

Part Number	Description	Quantity
E32-2100030-K08	Cooler	
E21-98G5010-C22	I/O Shielding	
K39-3002004-E06	PS2 Y-cable, 190mm	
K14-1018003-V03	COM Port Cable, 300mm	
K1D-1012064-V03	SATA Cable, 200mm	
G71-SEDC140-X03	CD	

Specifications

Processor	CPU	4th Gen Intel® Core™ i7/i5/i3/Celeron Mobile Processor
	Frequency	Depends on CPU
	L2 Cache	Depends on CPU
	CPU Type	BGA
	Chipset	Intel® QM87/HM86 Express
Memory	BIOS	AMI
	Technology	Dual-channel DDR3L 1333/1600 MHz SDRAM
	Max. Capacity	Up to 16GB
	Socket	2 x 204-pin SO-DIMMs
Display	Controller	Intel® HD Graphics
	Graphic Memory	Shared system memory up to 1.7 GB SDRAM
	LVDS	Dual channel 24-bit
	DVI	1 (DVI-I)
	HDMI	1
	DisplayPort	1
	Multiple Display	3 independent displays
	Display Interface	LVDS up to 1920 x 1200 DVI up to 1920 x 1200 DP up to 3840 x 2160 HDMI up to 4096 x 2304
	Ethernet	Controller 1 x Intel® I217-LM LAN PHY 1 x Intel® I210 LAN
	Audio	Controller Realtek® ALC887 HD Audio Codec
Super I/O	Controller	Fintek F8186AD-I
H/W Monitor	Watchdog Timer	256-level Watchdog Timer
	Smart Fan	Yes
TPM	Controller	Pin header
I/O Interface	USB	4 x USB3.0 (rear) 8 x USB2.0 (6 x internal; 2 x rear)
	Serial	5 x COM (COM1: rear; COM2~5: internal) COM1: RS-232/422/485, 0V/5V/12V COM2~5: RS-232
	PS/2	1
	GPIO	8-bits (4 x GPI; 4 x GPO), 5V
Expansion Slot	PCIe x16	1 (up to 75W, w/ riser card to extend to x8+x8 or x8+x4+x4)
	PCI	N/A
	Mini-PCle	QM87: 1x Full size, mSATA (w/ SIM Holder) 1x Half size HM86: 1 x Half size
Storage	SATA	QM87: 2 x SATA 3.0 HM86: 1 x SATA 3.0; 1 x SATA 2.0
	mSATA	1
Power Supply	DC	DC-in 12V/19V
	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	0.35 Kg
Certification	EMC	FCC, CE, C-Tick, VCCI