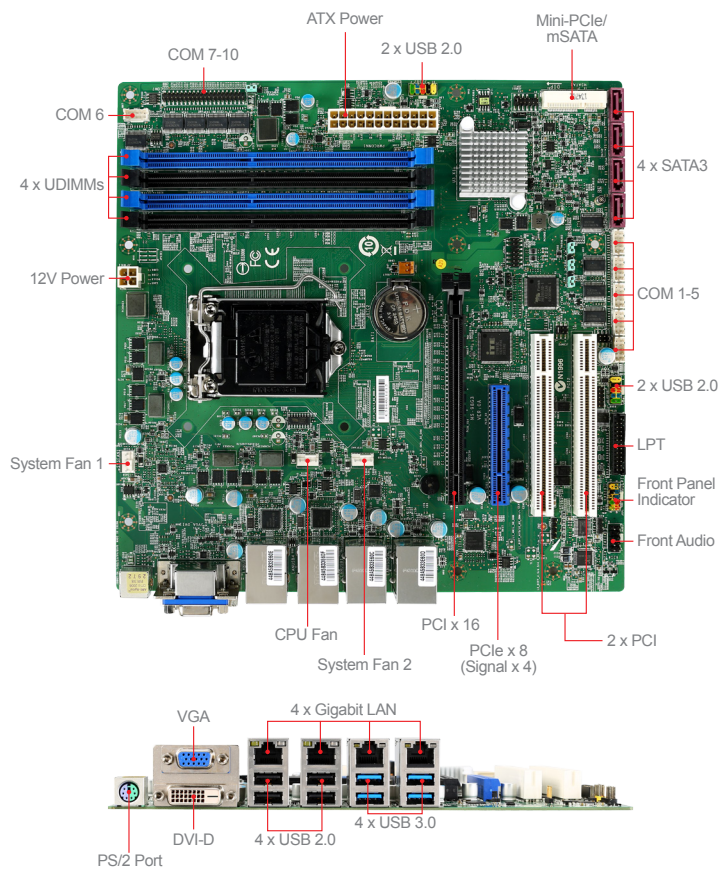


MS-98G3

Intel® Q87 Platform with 4 LAN, 10 COM, USB 3.0, for Demanding Applications

NEW



Specifications

Processor	CPU	4th Gen Intel® Desktop H3 Core i7/i5/i3/ Celeron Processor	
	Frequency	Depends on CPU	
	L2 Cache	Depends on CPU	
	CPU Type	Socket (LGA 1150)	
	Chipset	Intel® Q87 Express	
Memory	BIOS	AMI	
	Technology	Dual-channel DDR3 1066/1333/1600MHz	
	Max. Capacity	Up to 32 GB	
Display	Socket	4 x 240-pin Long-DIMMs	
	Controller	Intel® HD Graphics	
	Graphic Memory	Shared system memory up to 1.7 GB SDRAM	
	LVDS	N/A	
	eDP	N/A	
	VGA	1	
	DVI	1 (DVI-D)	
	HDMI	N/A	
	DisplayPort	N/A	
	Multiple Display	2 independent displays	
Ethernet	Display Interface	VGA up to 1920 x 1080 DVI up to 2560 x 1600	
	Controller	1 x Intel® I217-LM GbE-PHY 3 x Intel® I210-AT PCIe GbE LAN	
Audio	Controller	Realtek® ALC887 HD Audio Codec	
Super I/O	Controller	Fintek F81866AD-I + F81216AD	
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 rear; 4 x internal) 4 x USB 3.0 (4 x rear)	
	Serial	10 x COM (internal) COM1~COM4: RS-232, 0V/5V/12V COM5: RS-232/422/485, 0V/5V/12V COM6: RS-232/422/485, without power COM7~COM10: RS-232, 0V/5V/12V	
	Parallel	1	
	PS/2	1	
	GPIO	8-bits (4 x GPI, 4 x GPO), 5V	
	Expansion Slot	PCIe x16	1
		PCIe x4	1*PCIe x8 (signal is x4)
PCIe x1		N/A	
PCI		2	
Mini-PCIe		1 x Full-size, mSATA	
Storage	SATA	4 x SATA 3.0	
	IDE	N/A	
	eSATA	N/A	
	CFast	N/A	
	mSATA	1	
	CompactFlash	N/A	
Power Supply	DC	N/A	
	ATX	ATX-Power 24P, 12V-4P	
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	244 mm x 244 mm (uATX)	
	Weight	0.6 Kg	
Certification	EMC	FCC, CE, C-Tick, VCCI, BSMI	

Features

- Support Intel® Haswell Desktop CPU
- Max Support 32G DDR3 1600MHz Memory
- 4 GbE LAN, 10 COM, and 4 USB 3.0
- Support Mini-PCIe/mSATA Slot

Ordering Information

Part Number	Description
919-98G3-001	MS-98G3, Q87 Haswell / Haswell Re-Flash Desktop CPU, 4 x DDR3 Long DIMM, VGA/DVI-D, 4 x SATA3.0, 4 x GbE LAN, 10 x COM, 4 x USB3.0, 8 x USB2.0

Packing List

Part Number	Description	Quantity
K14-1018003-V03	COM PORT Cable, 300mm	1
K14-1036004-V03	COM PORT CABLE, 200mm	1
K1D-1008261-V03	SATA CABLE,SIGNAL, 500mm	2
E21-98G3010-C22	IO Shielding	1
G71-SEDC125-X03	Driver CD	1