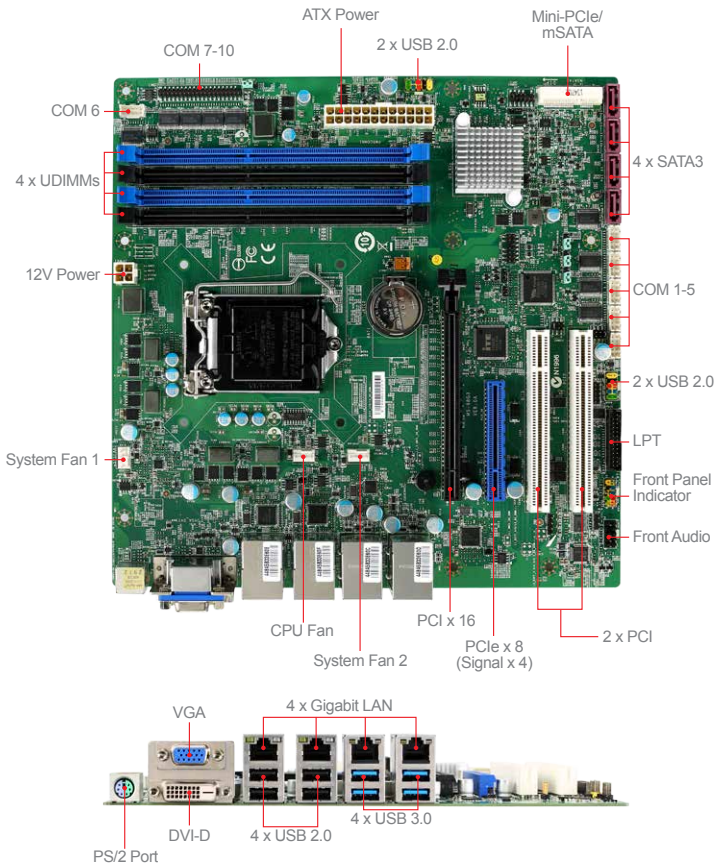


MS-98G3

Micro ATX with 4th Gen Intel® Haswell/Haswell Refresh Platform for Q87, 4 LAN, 10 COM & USB 3.0 for Vision Applications



Features

- Supports Intel® Haswell Desktop CPU
- Max Support 32G DDR3 1600MHz Memory
- 4 GbE LAN, 10 COM, and 4 USB 3.0
- Supports 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

Specifications

Processor	CPU	4th Gen Intel® Desktop Haswell/ Haswell Refresh Core™ i7/i5/i3/Celeron®/ Pentium® Processors, Max. 95W
	Frequency	2.2GHz~4.4GHz (Depends on CPU)
	L2 Cache	2M ~ 8M (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
	Socket	4 x 240-pin Long-DIMMs
Display	Controller	Intel® HD Graphics
	Graphic Memory	Shared system memory up to 1.7 GB SDRAM
	VGA	1
	DVI	1 (DVI-D)
	Multiple Display	2 independent displays
	Display Interface	VGA up to 1920 x 1080 DVI up to 2560 x 1600
Ethernet	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
	PCIe x16	1
	PCI	2
Expansion Slot	Mini-PCIe	1 x Full-size, mSATA
	SATA	4 x SATA3.0
	mSATA	1
Storage	DC	N/A
	ATX	ATX-Power 24P, 12V-4P
Power Supply	Operating Temperature	0 ~ 60°C
	Operating Humidity	10 ~ 90%, non-condensing
	Storage Temperature	-20 ~ 80°C
	Storage Humidity	10 ~ 90%, non-condensing
Environment	Dimensions	244 mm x 244 mm (uATX)
	Weight	0.6 kg
Certification	EMC	FCC, CE, C-Tick, VCCI, BSMI
Software Platform	OS Support	Windows XP (32-bit) Windows 7 (32/64-bit) Windows 8 (32/64-bit)

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