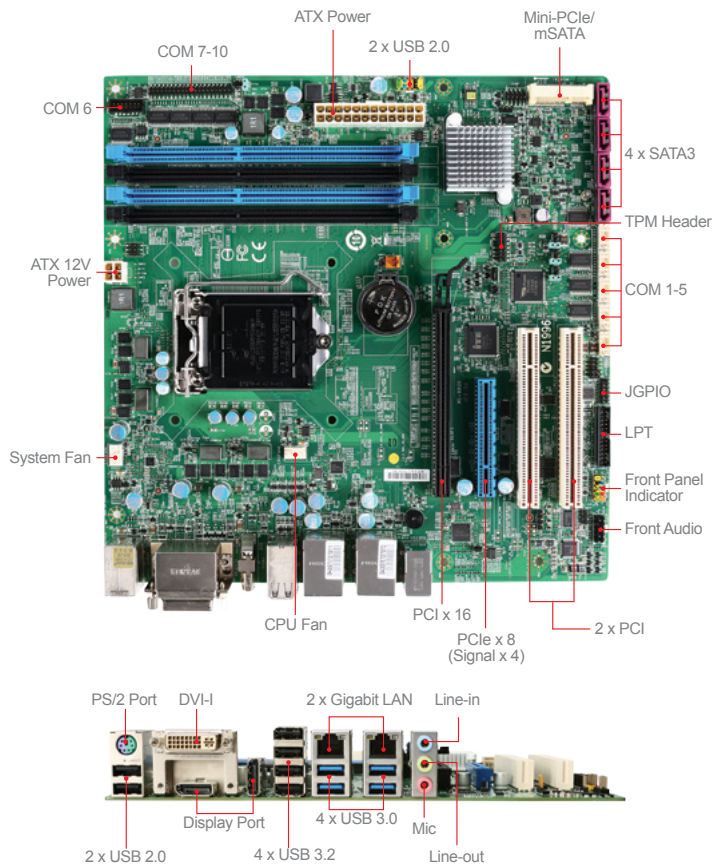


MS-98D6

Micro-ATX with 4th Gen Intel® Haswell/Haswell Refresh Platform for Superior I/O & Expansion Capability for High-Performance Solution



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 1066/1333/1600 MHz	
	Max. Capacity	Up to 32GB	
Display	Socket	4 x 240-pin UDIMMs	
	Controller	Intel® HD Graphics	
	Graphic Memory	Depends on CPU	
	DVI	1 (DVI-I)	
	DisplayPort	2	
	Multiple Display	3 independent displays	
Ethernet	Display Interface	DP up to 3840 x 2160 @60Hz DVI up to 1920 x 1200 @60Hz	
	Controller	1 x Intel® I217-LM GbE-PHY 1 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 (6 x rear, 2 x internal) 4 x USB 3.2 Gen 1 (rear)	
	Serial	Parallel	1
		PS/2	1
		GPIO	8-bits (4 x GPI, 4 x GPO), 5V
		PCIe x16	1
		PCIe x8	1*PCIe x8 (x4 signal)
	Expansion Slot	PCI	2
M.2		N/A	
Mini-PCIe		1 x Full-size (mSATA)	
Storage	SATA	4 x SATA 3.0	
	mSATA	1 (shared w/ Mini-PCIe)	
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	
Form Factor	Storage Humidity	10 ~ 90%, non-condensing	
	Dimensions	244 x 244mm (uATX)	
Certification	Weight	0.73 kg	
	EMC	FCC, CE, RCM, VCCI, BSMI	
Software Platform	OS Support	Windows XP (32-bit) Windows 7 (32/64-bit) Windows 8 (32/64-bit)	

Features

- Intel® 4th Gen Haswell Refresh-S/Haswell-S Series with Q87
- 4 DDR3 1600/1333/1066 MHz Long-DIMM slots up to 32GB
- Triple independent displays: DVI-I, 2 DP
- 2 GbE LAN with RJ-45
- 1 PCIe x16 (Gen 3), 1 PCIe x8 (Gen 2), 2 PCI, 1 Mini-PCIe (Full size, with mSATA) slots
- mSATA, 4 SATA 3.0 for storage
- SATA RAID 0/1/5
- 4 USB 3.2 Gen 1, 8 USB 2.0, 10 COM(2 RS485), Audio, GPIO, LPT, PS/2, System FAN
- ATX Power

Ordering Information

Part Number	Description
919-98D6-001	MS-98D6 10 OPT: A Q87+2*PCIe+1*Mini-Pcie+2*P-CI+4*SATA3.0+1*mSATA+4*DDR3+2*DP+1*DVI+8*USB 2.0+4*USB3.0+10*COM+2*Gbe LAN+ATX Power

Packing List

Part Number	Description	Quantity
809-98D6-002		
E21-98D6010-C22	IO SHIELD FOR MS-98D6	1
K14-1018003-V03	INT COM PORT CABLE,300mm	1
K1D-1008261-V03	INT SATA CABLE,500mm	2