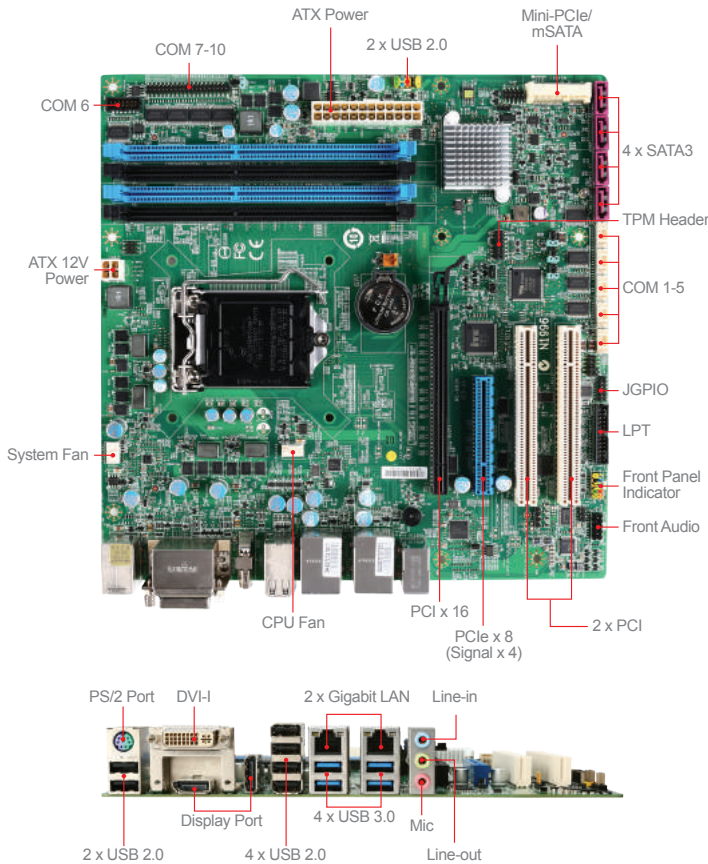


MS-98D6

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 1066/1333/1600MHz
	Max. Capacity	Up to 32GB
Display	Socket	4 x 240-pin Long-DIMMs
	Controller	Intel® HD Graphics
	Graphic Memory	Shared system memory up to 1.7 GB SDRAM
	DVI	1 (DVI-I)
	DisplayPort	2
	Multiple Display	3 independent displays
	Display Interface	DP up to 3840 x 2160 @60Hz DVI up to 1920 x 1200 @60Hz
Ethernet	Controller	1 x Intel® I217-LM GbE-PHY 1 x Intel® I210-AT PCIe GbE LAN
	Audio	Controller
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 3.0 (4 x rear)
	Serial	10 x COM ports (internal) COM1~4: RS-232, 0V/5V/12V COM5: RS-232/422/485, 0V/5V/12V COM6: RS-232/422/485, without power COM7~10: RS-232, 0V/5V/12V (COM1 & COM2 support WOR)
	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
	SATA	4 x SATA 3.0
Storage	mSATA	1
	DC	N/A
Power Supply	ATX	ATX-Power 24P, 12V-4P
	Operating Temperature	0 ~ 60°C
Environment	Operating Humidity	10 ~ 90%, non-condensing
	Storage Temperature	-20 ~ 80°C
	Storage Humidity	10 ~ 90%, non-condensing
Form Factor	Dimensions	244 x 244mm (uATX)
	Weight	0.73 kg
Certification	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

- 10 COM ports for flexible applications
- 3 independent displays: DVI-I and DP
- Supports DirectX 11.1 and Intel® Clear Video Technology (up to 1080P)
- Multiple expansion slots: PCIe x16, PCI x8 (x4 signal) and 2*PCI
- 4 SATA 3.0 ports for faster and high-capacity storage
- Supports m-SATA function by Mini-PCIe slot
- Plenty USB ports for more peripherals (USB 2.0*8 USB 3.0*4)

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

809-98D6-002

Part Number	Description	Quantity
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