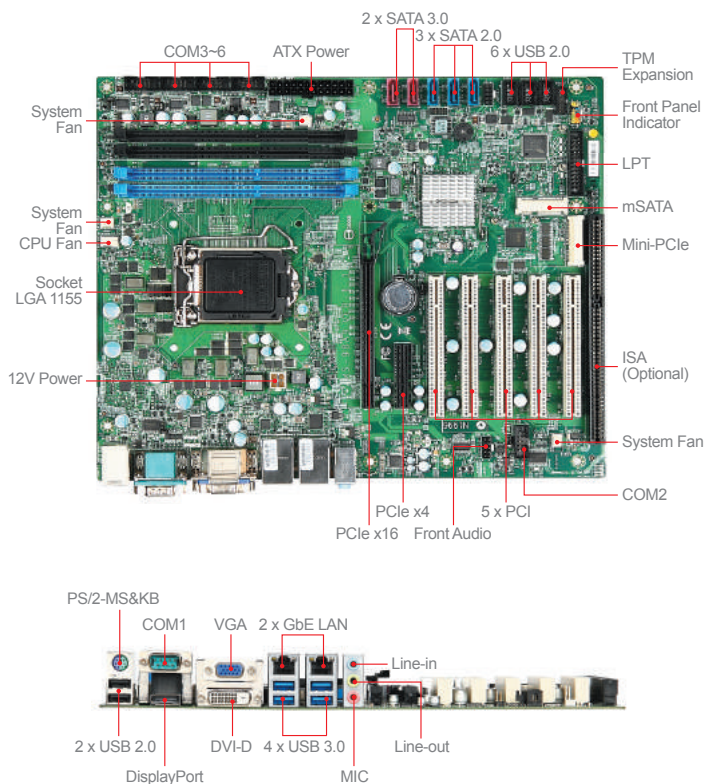


MS-98A9

ATX with 3rd Gen Intel® Core™ i7/i5/i3/Pentium®/Celeron® Processor and Intel® Q77 for High-Performance Solution



Features

- Intel® Ivy Bridge and Sandy Bridge Series CPU to maximize performance
- Supports 4 DDR3 1600MHz UDIMM up to 32GB
- Supports DisplayPort, DVI-D, VGA and dual Intel® GbE LAN
- 2 SATA 3.0, 3 SATA 2.0, mSATA, 6 COM, 4 USB 3.0, and 8 USB 2.0
- Supports AMT 8.0
- Supports ISA slot (optional)
- Supports ATX power

Ordering Information

Part Number	Description
919-98A9-001	MS-98A9 VER 1.1 INTEL IVY BRIDGE+Q77, 4*DDR3, 1*VGA+1*DVI,1*DP, 10*USB 2.0, 4*USB 3.0, 2*GbE LAN, 1*Mini-PCle, 1*mSATA, 3*SATA2, 2*SATA3, with ISA
919-98A9-002	MS-98A9 VER 1.1 INTEL IVY BRIDGE+Q77, 4*DDR3, 1*VGA+1*DVI,1*DP, 10*USB 2.0, 4*USB 3.0, 2*GbE LAN, 1*Mini-PCle, 1*mSATA, 3*SATA2, 2*SATA3, without ISA

Packing List

Part Number	Description	Quantity
K14-1018004-V03	Internal COM Port Cable with Bracket, 510mm	2
K18-1025011-V03	Internal LPT Cable with Bracket, 300mm	1
K1B-3008012-E06	Internal USB2.0, 330mm	1
K39-3002004-E06	External PS/2 Y-Cable, 190mm	1
K1D-1080054-E06	SATA Cable, 625mm	2
E21-98A9010-C22	I/O Shielding	1
G71-SEDC078-J24	Driver DVD	1

Specifications

Processor	CPU	3rd Gen Intel® Core™ i7/i5/i3/Pentium®/Celeron® Processor, Max.95W	
	Frequency	2.8GHz~3.9 GHz (Depends on CPU)	
	L2 Cache	3M~8M (Depends on CPU)	
	CPU Type	Socket (LGA 1155)	
	Chipset	Intel® Q77 Express	
Memory	BIOS	AMI	
	Technology	Dual-channel DDR3 1333/1600MHz	
	Max. Capacity	Up to 32GB	
Display	Socket	4 x 240-pin DIMMs	
	Controller	Intel® HD Graphics	
	Graphic Memory	Shared system memory up to 1.7 GB SDRAM	
	VGA	1	
	DVI	1 (DVI-D)	
	DisplayPort	1	
	Multiple Display	2 independent displays (SNB CPU only) 3 independent displays (IVB CPU only)	
	Display Interface	VGA up to 1920 x 1080 @60Hz DVI-D up to 1920 x 1200 @60Hz DP up to 2560 x 1600 @60Hz HDMI up to 1920 x 1200 @60Hz	
	Ethernet	Controller	1 x Intel® 82579LM GbE LAN PHY 1 x Intel® 82583V GbE LAN
		Controller	Realtek® ALC887 HD Audio Codec
Audio	Controller	Realtek® ALC887 HD Audio Codec	
Super I/O	Controller	Fintek F81866	
H/W Monitor	Watchdog Timer	256-level Watchdog Timer	
	Smart Fan	Yes	
TPM	Controller	Pin header	
I/O Interface	USB	4 x USB 3.0 (rear) 8 x USB 2.0 (2 x rear; 6 x internal)	
	Serial	6 x COM ports (COM1: rear, COM2~6: internal) COM1~2: RS-232/422/485, 0V/5V/12V COM3~6: 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
PCI		5	
M.2		N/A	
Mini-PCle		1 x Full-size	
Storage	SATA	2 x SATA 3.0; 3 x SATA 2.0 (support RAID 0, 1, 5, 10)	
	mSATA	1	
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	305 x 244mm (ATX)	
	Weight	0.75 kg	
Certification	EMC	FCC Class A, CE, RCM, VCCI, BSMI	
Software Platform	OS Support	Windows XP (32/64-bit) Windows 7 (32/64-bit) Windows 8 (32/64-bit) * 1 x ISA Slot (optional)	