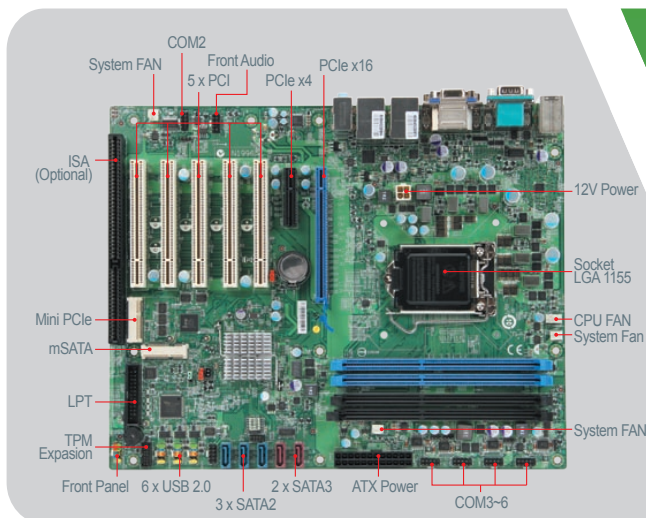


Industrial Mother Board

IM-M98A9

Intel® Core-i5/ i7™ Desktop Processor based ATX Industrial Motherboard with 5PCI, 1 ISA, PCIe VGA, Dual Gigabit Ethernet, SATA, Audio, COM & USB



Core Specifications

- Intel® Core- i5 / i7™ Desktop® Processor in an LGA1155 Socket
- Intel® Q77 Chipset, Ivy Bridge 1333/1600 MHz FSB
- Dual-channel DDR3 Memory Architecture
- Integrated Intel® Clear Video HD Graphics Technology
- Dual Gigabit Ethernet
- Six SATA 300 MB/s Ports, Raid 0,1,5,10
- Six COM Ports, 8 USB 2.0 ports
- One ISA, Five PCI, One PCIe x4 Slots

Specifications

System

CPU	Intel® Core-i5 / i7 Desktop 3rd Generation Processor Pentium Dual Core in the LGA1155™
FSB	1066/1333/1666 MHz
BIOS	AMI BIOS with 128 Mb Flash EEPROM
System Chipset	Intel® BD82Q77 Ivy Bridge
I/O Chip	Fintec F81866 I/O Controller
System Memory	4 x 240-pin DDR3 DIMM sockets Dual-channel DDR3 1066/1333/1666 DRAM Max. up to 32 GB memory
Storage	3 x Series ATA 300 ports + 2 x SATA 600 Ports
RAID	ICH 8-DO Intel Raid 0,1,5,10
Watchdog Timer	Reset, 255-Level Watchdog Timer
H/W Status Monitor	Monitoring system temperature, voltage, and cooling fan status. Auto throttling control when CPU overheats
GPIO	Onboard programmable 8-bit Digital I/O interface
Expansion	1 x PCI Express x16, 1 x PCIe x4 5 x PCI, 1 x ISA

MIO

Internal I/O	4 x RS-232, 2 x RS-232/422/485, 6 x USB 2.0
Back Panel I/O	1 x VGA, 1 x DVI, 1 x Audio, 2 x RJ-45, 1x RS-232, 6x USB 2.0/3.0, 1 x KB, 1 x Mouse

Display

Graphics Controller	Intel® integrated Clear Video HD Graphics
Display Memory	Intel® DVMT 4.0 supports up to 1024 MB video memory
Resolution	Analog display : up to 2048 x 1536 @ 75Hz (QXGA)
Display Interface	DSUB-15 connector for VGA output
DVI	External

Audio

HDAC	Realtek® ALC887 7.1 + HD audio codec
Audio Interface	Mic in, Line in, CD Audio in, Line out, Rear out and Center/Subwoofer out

Ethernet

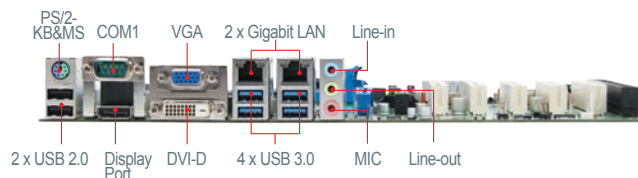
Controller	Dual Intel 82579LM / 82583V PCIe Gigabit LAN Ethernet controllers
Ethernet Interface	IEEE 802.3 10BASE-T/100BASE-TX/1000BASE-T

Mechanical & Environmental

Power Requirement	+3.3 V @ 4.73 A, +5 V @ 0.96 A, +12 V @ 9.11 A, -12 V @ 0.01 A, 5 VSB @ 0.07A
Power Type	24-pin ATX power connector, 1 x 4-pin ATX 12V power connector
FAN connector	1 x CPU, 2 x system with DC 12V
Operating Temperature	0~60°C
Operating Humidity	10%~90% relative humidity, noncondensing
Size (L x W)	305 mm x 244 mm
Weight	1.44 lb (650 g)
Certification	FCC / CE class A

Ordering Information

IM-M98A9



Alptech Elektronik GmbH



Zimmersmühlenweg 14-18
D-61440 Oberursel/Ts.

Tel.: 06171-9799110
Fax: 06171-9799115

E-Mail: info@alptech.de
www.alptech.de