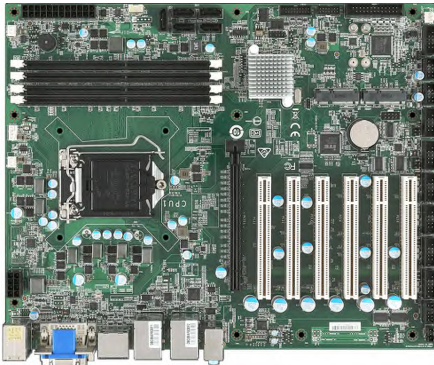


MB-8508G2V

Intel® 7th/6th Generation Core® Processor Q170 Chipset Based Industrial ATX Motherboard with 12x USB/6x COM Ports/2x DP/DVI-D/VGA/ Dual Gigabit LAN



FEATURES

- Intel® 7th/6th Generation Intel® Core® Processor in Socket 1151
- Four 288-pin DIMM sockets Dual-channel DDR4 1866/2133 SDRAM. Max. up to 64GB memory
- Intel® Q170 Express chipset
- Intel® I210AT & I219LM on board for Dual GbE LAN
- Integrated Intel® HD Graphics with VGA/DVI/2x DP connectors
- Realtek® ALC887 5.1 Channel High Definition Audio chip on-board
- Multi I/O: 12 x USB, 6 x COM ports, 5 x SATA 3.0, 1x mSATA socket
- Expansion Slot: 1 PCIe x16, 6 PCI slots & 2x Mini PCIe socket

Introduction

Industrial Motherboard MB-8508G2V based on the Intel® Q170 Chipset, supports Intel® 7th/6th Generation Core™ i7/i5/i3 Processor. Integrated with Intel® HD Integrated Gen 9 Graphic Controller, 6 x Com Port, 12 x USB, 5 x SATA 3.0 with RAID.

MB-8508G2V is ideal for developing high-performance systems for Factory Automation, Machine Automation, Test & Measurement Control & Machine Vision control.

Specification

System	
Processor	<ul style="list-style-type: none"> • LGA 1151 socket for: <ul style="list-style-type: none"> - 7th/6th generation Intel® Core® processors : Intel® Core™ i7-6700 Processor, 8M Cache, 3.4GHz (4.0GHz), 65W : Intel® Core™ i5-6500 Processor, 6M Cache, 3.2GHz (3.6GHz), 65W : Intel® Core™ i3-6100 Processor, 3M Cache, 3.7GHz, 47W : Intel® Pentium® Processor G4400, 3M Cache, 3.3GHz, 47W : Intel® Pentium® Processor G4400TE, 3M Cache, 2.4GHz, 35W
BIOS	<ul style="list-style-type: none"> • UEFI
System Memory	<ul style="list-style-type: none"> • Four 288-pin DDR4 DIMM sockets • Supports up to 64GB non ECC RAM • Dual Channel DDR4 1866/2133MHz
Chipset	<ul style="list-style-type: none"> • Intel® Q170 Express Chipset
Video	<ul style="list-style-type: none"> • Intel® HD Gen 9 Graphics • VGA display resolution up to 1920x1200 pixels with 24-bit color @ 60Hz • DVI-I supports up to 1920x1200 @ 60Hz resolution • Intel® Clear Video Technology • One VGA, One DVI-I, Dual DP
Ethernet	<ul style="list-style-type: none"> • Intel® I210 PCI Express Gigabit Ethernet controller • Intel® I219LM with iAMT9.0 Gigabit Ethernet Phy • Integrated 10/100/1000 transceiver • Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
On Board I/O	<ul style="list-style-type: none"> • 1x Connector for PS/2 Mouse/Keyboard • 6 x Serial ports (2 x RS-232/422/485 ,0V/5V/12V, 4 x RS-232C , 0V/5V/12V) • 5 SATA 3.0 ports with data transfer rate up to 6Gb/s • Supports RAID 0/1/5/10 • Supports Intel® Smart Response Technology • Integrated Advanced Host Controller Interface (AHCI) controller • 12 USB: 6 USB 3.0, 6 USB 2.0 ports • 1 Parallel Port • 1x 8 bit GPIO
TPM function	<ul style="list-style-type: none"> • 1 x TPM module expansion (optional)
Watchdog Timer	<ul style="list-style-type: none"> • Programmable watchdog timer for 1~255 seconds.
CMOS	<ul style="list-style-type: none"> • On-board RTC with 242 bytes of Battery-back CMOS RAM.
Audio	<ul style="list-style-type: none"> • Realtek® ALC887 5.1-channel High Definition Audio • Audio outputs: Mic-in/Center+Subwoofer, line-in/surround and line-out
Power	<ul style="list-style-type: none"> • One 24pins power connector for system power. • One ATX-12V 8-pins connector for CPU power. • Support both AT and ATX mode. • One CPU cooling FAN connector nearby CPU socket
Cooling	<ul style="list-style-type: none"> • One CPU cooling FAN connector nearby CPU socket

Packing List

item	Description / Quantity
Motherboard	MB-8508G2V / 1
Driver	DVD driver disk with Guide / 1
Shield	I/O shield / 1
SATA	Serial ATA data cables / 1
USB	Two USB port cable with bracket / 1
COM	COM port cables with bracket / 1
PS/2	PS2 Y-cable / 1

Mechanical & Environment

Form Factor	12" x 9.6" (307mm x 244mm)
Operation temperature	0°C to 60°C (32° F to 140° F)
Storage temperature	-20°C to 80°C (-68° F to 176° F)
Relative humidity	10% to 90% (Non-Condensing)

Ordering Information

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