

MB-8512G2V

Intel® 9th/8th Generation Core® Processor H310
Chipset Based Industrial uATX Motherboard with
10x USB Ports/4x COM Ports/DP/DVI-D/VGA/ Dual
Gigabit LAN



FEATURES

- Intel® 9th/8th Generation Intel® Core® Processor in Socket 1151
- Two 288-pin uDIMM sockets Dual-channel DDR4 2400/2666 Module. Max. up to 32GB memory (Non-ECC)
- Intel® H310 Express chipset
- Intel® I210AT & I219LM on board for Dual GbE LAN
- Integrated Intel® HD 9 Graphics with VGA/DVI-D/DP ++ connectors
- Realtek® ALC888 High Definition Audio chip on-board
- Multi I/O: 10x USB, 6 x COM ports, 4 x SATA 3.0 Port
- Expansion Slot: 1 PCIe x16, 1 PCIe x4, 2 PCI

Introduction

Industrial Motherboard MB-8512G2V based on the Intel® H310 Chipset, supports Intel® 9th/8th Generation Core™ i7/i5/3 Processor. Integrated with Intel® HD Integrated HD Controller, 6 x Com Port, 10 x USB, 4 x SATA 3.0.

MB-8512G2V 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: - 9th/8th generation Intel® Core® /Pentium®/Celeron® processors, Max 65W
BIOS	<ul style="list-style-type: none"> • AMI SPI 128MBit
System Memory	<ul style="list-style-type: none"> • Two 288-pin DDR4 uDIMM sockets • Supports up to 32GB non ECC RAM • Dual Channel DDR4 2400/2666MHz
Chipset	<ul style="list-style-type: none"> • Intel® H310 Express Chipset
Video	<ul style="list-style-type: none"> • Intel® HD Graphics • 1 x VGA (Resolution up to 1920x1200 @ 60Hz) • 1 x DVI-I (DVI-D signal - resolution up to 1920x1200 @ 60Hz) • 1 x DP++ (Resolution up to 4096x2160 @ 60Hz)
Ethernet	<ul style="list-style-type: none"> • 1 x Intel® I211AT (10/100/1000Mbps) • 1 x Intel® I219LM with iAMT 12.0 (10/100/1000Mbps) (only Core i7/i5 supports iAMT)
On Board I/O	<ul style="list-style-type: none"> • 1x Connector for PS/2 Mouse/Keyboard • 4 x Serial ports (2 x RS-232/422/485 ,0V/5V/12V, 4x RS-232C , 0V/5V/12V) • 4 x SATA 3.0 (Support RAID 0/1/5/10) • 10 USB: 4 x USB 3.1 Gen1, 6 x USB 2.0 (2 x rear, 4 Header) • 1x SMBus • 1x 8-bits
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® ALC888 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.
Cooling	<ul style="list-style-type: none"> • One CPU cooling FAN connector nearby CPU socket

Packing List

item	Description / Quantity
Motherboard	MB-8512G2V / 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	9.6" x 9.6" (244mm 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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