

MM91 Series

Micro-ATX Embedded Motherboard, 6th/7th Generation Intel® Core™ i7/ i5 /i3, Pentium® LGA1151 Socket Processor, Max. 65W TDP

1. Intel® LGA1151 Socket Core i3, i5, i7 & Pentium Processors (Max. 65W)
2. Intel H110 Express Chipset
3. Support Dual Channel DDR4 2133MHz, 2 * UDIMM slot, up to 32GB memory
4. 2 * Intel Gigabit LAN (I219-V + I211-AT)
5. 3 * SATA III (6Gb/s), 1 * M.2 (M-key 2242/2260/2280/22110)
6. 4 * USB 3.0, 5 * USB 2.0
7. 10 * COM ports (COM1 supports RS232/422/485)
8. Support TPM function (option)
9. Micro ATX form factor (244mm x 244mm)



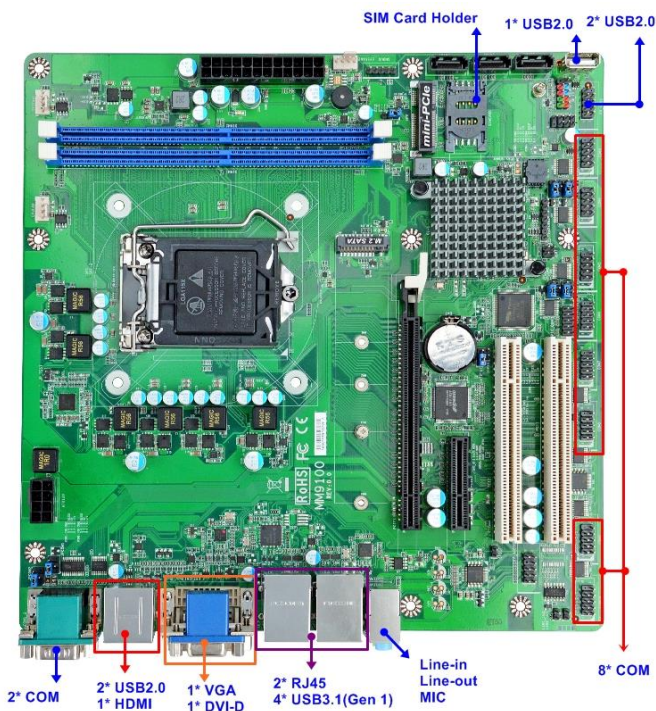
Overview

The JETWAY MM91 is Micro-ATX form factor board adopts the Intel® 6th and 7th generation Core i7/i5/i3, Pentium and Celeron Processor. The board supports two UDIMM DDR4 2133Mhz memory, up to 32GB. Featuring the integrated Intel® Gigabit Ethernet controller, the MM91 offers two 10/100/1000Base-TX Ethernet devices for network transmission. Three SATAIII (6Gb/s) interface and one M.2 M-key offer storage devices. One Mini PCIe interface, four USB3.1 Gen.1 ports, five USB2.0/1.0 ports and ten COM ports provide versatile expansion. The PCIe16 slot can support Jetway riser card for different expansion. The MM91 offers one HDMI1.4 port, one DVI-D port and one VGA port which can support dual independent displays. Because of the above features, MM91 is suitable for ATM, Industrial PCs, Factory Automation applications.

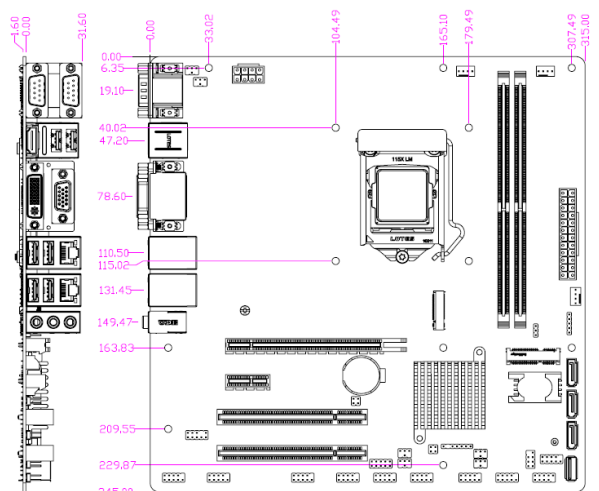
Application

ATM / Industrial PCs / Factory Automation

I/O Diagram



Mechanical Drawings (Unit = mm)



Specifications

Model	Form Factor
MM91-00 : no TPM MM91-02 : TPM 2.0 onboard	Micro ATX (244 * 244mm)
Processor System	Expansion Slot
<ul style="list-style-type: none">Intel® LGA1151 SkyLake/KabyLake Processor (Max. 65W TDP)H110 chipsetAMI Flash ROM BIOS	<ul style="list-style-type: none">1* Mini PCIe (full size)1* PCIe16 slot1* PCIe4 slot2* PCI1* SIM card slot
Memory	Graphics
2* UDIMM DDR4 2133MHz Dual CH non-ECC up to 32GB	<ul style="list-style-type: none">Intel® HD Graphics, shared memory1* VGA (Max Resolution: 1920x1200@60Hz)1* DVI-D (Max Resolution: 1920x1200@60Hz)1* HDMI 1.4 (Max Resolution: 4096x2160@30Hz)Support Dual Displays
Ethernet	Audio
2* Intel GbE (1* i219V, 1* i211AT)	6 channel HD audio: Realtek ALC662
SATA	Watchdog Timer
3* SATAIII	<ul style="list-style-type: none">From Super I/O to drag RESETCON#256 segments (10sec ~ 255min)
Rear I/O	Internal Connector
<ul style="list-style-type: none">1* VGA1* HDMI1* DVI-D2* Ethernet RJ454* USB 3.1 (Gen. 1) & 2* USB2.0Line-In, Line-Out, MIC2* COM (COM 1 support RS232/422/485)	<ul style="list-style-type: none">2* USB 2.0, 1* USB2.0 (Vertical type)1* PS/28* COM3* SATAIII1* SIM card slot1* Mini PCIe (full size)1* M.2 M-key 2242/2260/2280/22110 (SATA I/F)1* GPIO (8 bit)1* Chassis intrusion1* Audio Header1* SMBUS1* AT modeSupport onboard TPM (option)
Power	Compliance
ATX PWR (8+24 pin), AT/ATX Supported - AT: Directly PWR on as Power input ready - ATX: Press Button to PWR on after Power input ready	CE, FCC, LVD, RoHS, REACH
Temperature	Warranty
<ul style="list-style-type: none">Operating: 0°C ~ 60°CStorage: -20°C ~ 85°C	2 Years Limited Warranty

* Specifications subject to change without notice, not responsible for typographical errors. Does not include HDD or OS.

Accessories

Parts Number	Description	Parts Number	Description
-----	MM91 M/B	G01-COM9X3-30A-1F	COM cable
F04-MB-007-1F	MM91 I/O shield	G01-SATA3-BL-1F	SATAIII cable
G01-COM9-30A-1F	COM cable		