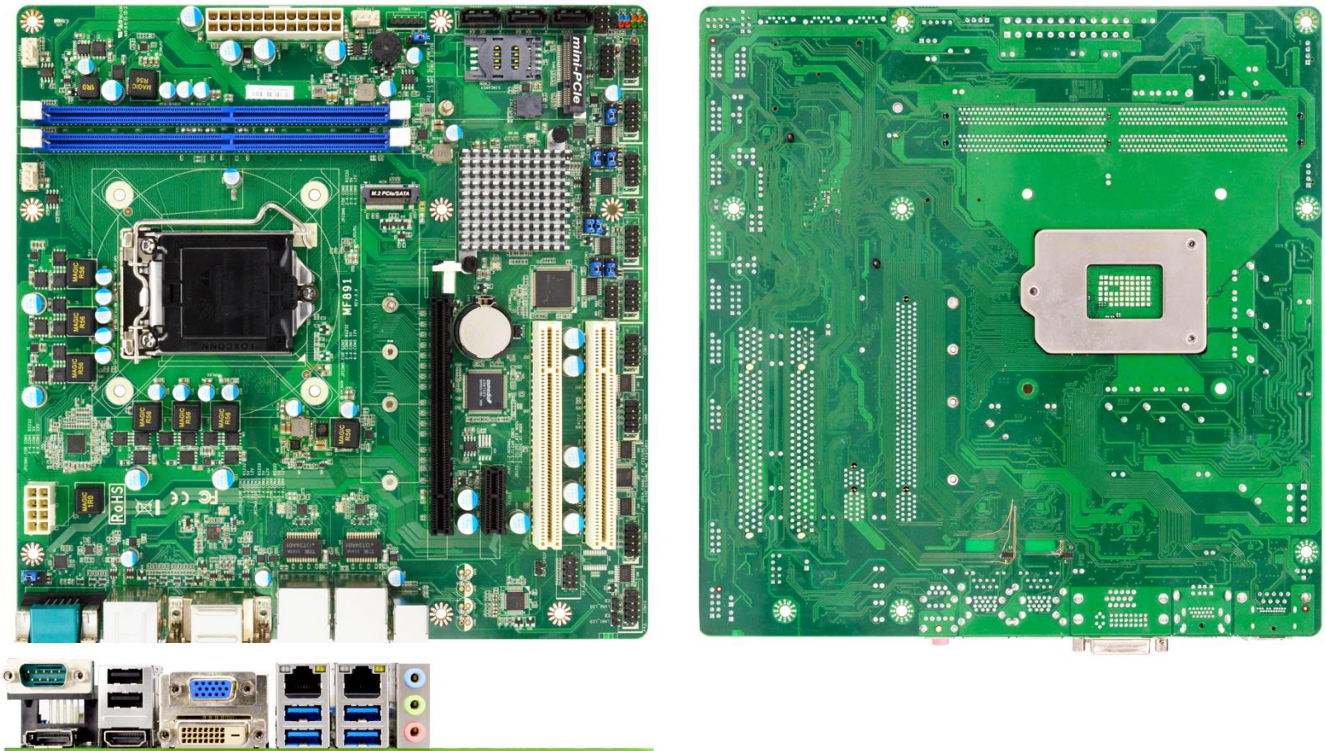


JNMF891-H310

Micro-ATX Embedded Motherboard, 8th Generation Intel® Core™ i7/ i5 /i3, Pentium and Celeron LGA1151 Socket Processor, Max. 65W TDP



Overview



The JETWAY JNMF891 are Micro-ATX form factor board adopts the Intel® 8th generation Core i7/i5/i3, Pentium and Celeron Processor. The board supports DDR4 2666Mhz UDIMM memory, up to 64GB. Featuring the integrated Realtek Gigabit Ethernet controller, the JNMF891 offers 10/100/1000Base-TX Ethernet devices for network transmission. Three SATAIII (6Gb/s) interface and one M.2 (M-key, 2242/2260/2280/22110) offer storage devices. One Mini PCIe interface, four USB3.1(Gen1) ports, four USB2.0 ports and ten COM ports provide versatile expansion. The JNMF891 offers one VGA port, one DVI port, one HDMI port and one DP port which can support 3 independent displays. Because of the above features, JNMF891 is one of the best selections for digital signage, banking, KIOSK and POS applications.

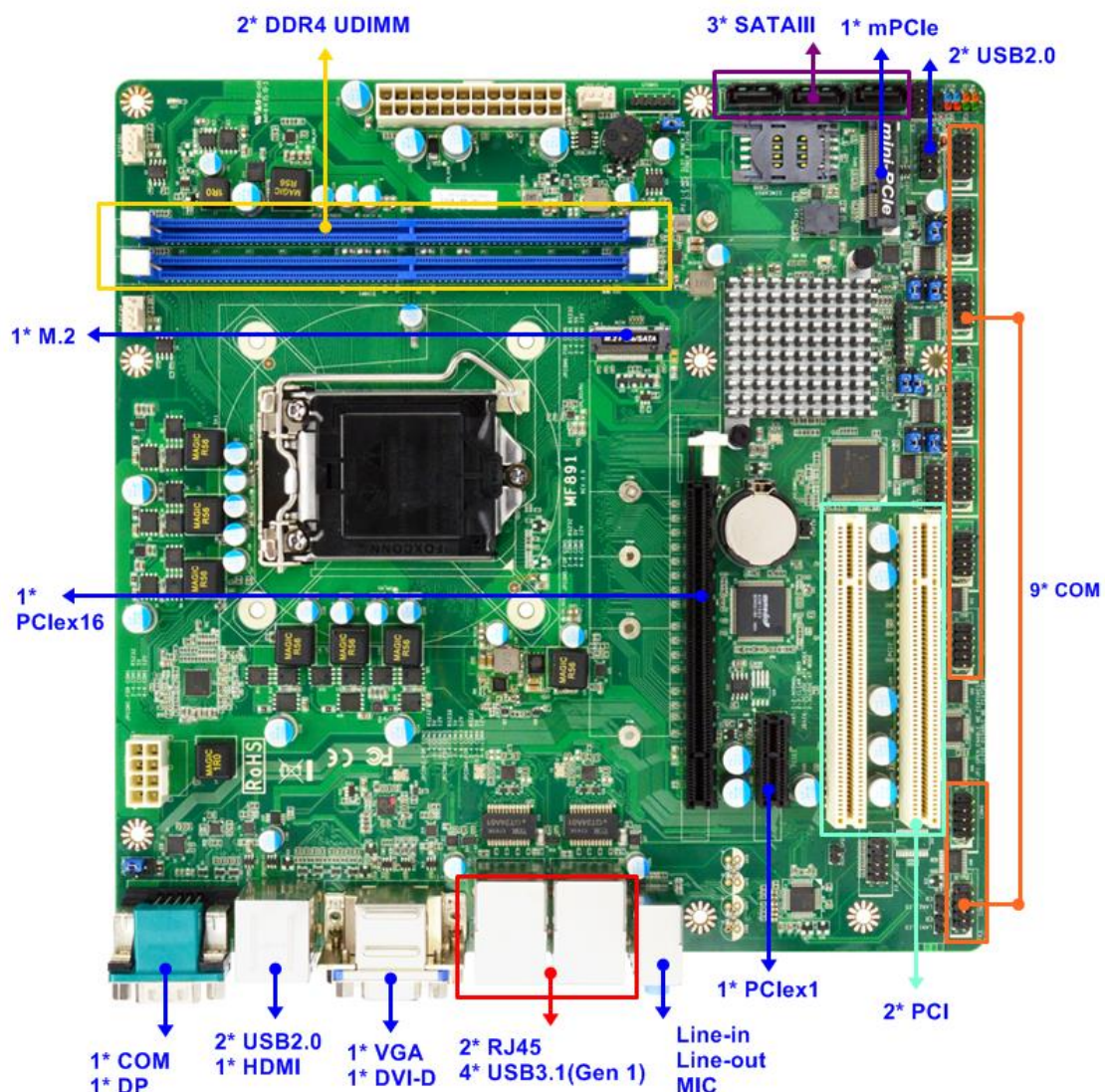
Features

1. Intel® LGA1151 Socket Gen8 Coffee Lake Core i3, i5, i7 & Pentium Processors (Max. 65W TDP)
2. Intel H310 Express Chipset
3. Support Dual Channel DDR4 2666MHz, 2 * UDIMM slot, up to 64GB memory
4. 2 * Realtek Gigabit LAN (RTL8111H)
5. 3 * SATA III (6Gb/s), 1 * M.2 (M-key, 2242/2260/2280/22110, SATA Interface)
6. 4 * USB 3.1(Gen 1), 4 * USB 2.0
7. 10 * COM ports (COM1/2 supports RS232/422/485)
8. Support TPM 1.2/2.0 onboard option
9. Micro ATX form factor (244mm x 244mm)

Application

- Digital Signage
- Banking
- KIOSK
- POS machine

Internal Diagram



Specifications

Model	JNMF891-H310
Form Factor	
Dimensions	- Micro ATX (244 * 244mm)
Processor System	
CPU	- Intel® LGA1151 Socket Gen8 Coffee Lake Core i3, i5, i7 & Pentium Processors (Max. 65W TDP)
Core Number	- (By CPU)
Max Speed	- (By CPU)
L2 Cache	- (By CPU)
Chipset	- Intel H310 Chipset
BIOS	- AMI 64Mb Flash ROM
Expansion Slot	
PCI	- 2
Mini-PCIe	- 1 (full size)
PCIe	- 1 * PCIe x16 & 1 * PCIe x 1
M.2	- 1 (M-key, 2242/2260/2280/22110, SATA Interface)
SIM Card Holder	- 1
Memory	
Technology	- Dual Channel DDR4 2666MHz
Max.	- 64GB
Socket	- 2 * UDIMM
Graphics	
Controller	- by CPU
VRAM	- Shared Memory
VGA	- 1 (Max. Resolution: 1920*1200@60Hz)
DVI-D	- 1 (Max. Resolution: 1920*1200@60Hz)
HDMI	- 1 (Max. Resolution: 4096x2160@30Hz)
DP	- 1 (Max. Resolution: 4096x2304@60Hz)
Multi Display	- Dual Display
Controller	- by CPU
Ethernet	
Ethernet	- 10/100/1000 Mbps
Controller	- PCIe GbE: Realtek RTL8111H
Connector	- 2 * RJ 45
Audio	
CODEC	- HD Audio : Realtek ALC662VDs

Channel	- 6 Channel
SATA	
Max Data Transfer Rate	- 3 * SATAIII (6.0Gb/s) and 1 * M.2
RAID	- No
Rear I/O	
VGA	- 1
DVI-D	- 1
HDMI	- 1
DP	- 1
Ethernet	- 2
USB	- 4 * USB 3.1(Gen 1), 2 * USB 2.0
Audio	- 1 (Line-In, Line-Out, MIC)
Serial	- 1 (COM1 support RS232/422/485)
Internal Connector	
USB	- 2 * USB 2.0
Serial	- 9 (COM2 support RS232/422/485)
SATA	- 3
mPCIe	- 1 (full size)
M.2	- 1 (M key 2242, 2260, 2280, 22110)
SIM card holder	- 1
Chassis intrusion	- 1
PS/2	- 1
GPIO	- 1 (8 bit)
SMBUS/ I2C	- 1
Audio Header	- 1
TPM	- 1 (1.2/2.0 onboard option)
AT mode	- 1
Watchdog Timer	
Output	- From Super I/O to drag RESETCON#
Interval	- 256 segments, 10sec...255min
Power Requirements	
Input PWR	- 24 pin/8 pin ATX PWR Connector
Power On	AT/ATX Supported - AT : Directly PWR on as Power input ready - ATX: Press Button to PWR on after Power input ready
Certifications	
Certifications	- CE, FCC, RoHS, REACH
Environment	

Temperature	- Operating: 0°C – 60°C
	- Storage: -20°C – 85°C
Warranty	
Warranty	- 2 Years Limited Warranty

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

Accessories

Part Number	Description
	JNMF891 M/B
G01-SATA3-BL-1F	SATA cable
G01-COM9X3-30A-1F	COM cable (1 header to 3 COM port)
G01-COM9-30A-1F	COM cable (1 header to 1 COM port)
F04-MB-052-F	I/O Shield

Mechanical Drawings (Unit = mm)

