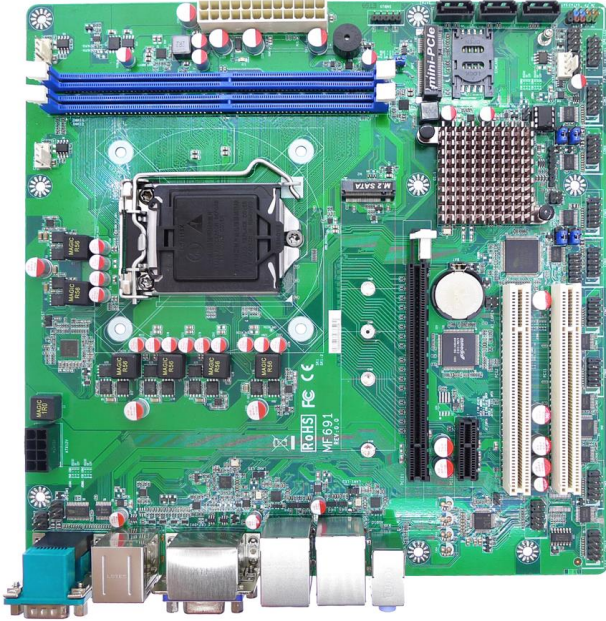
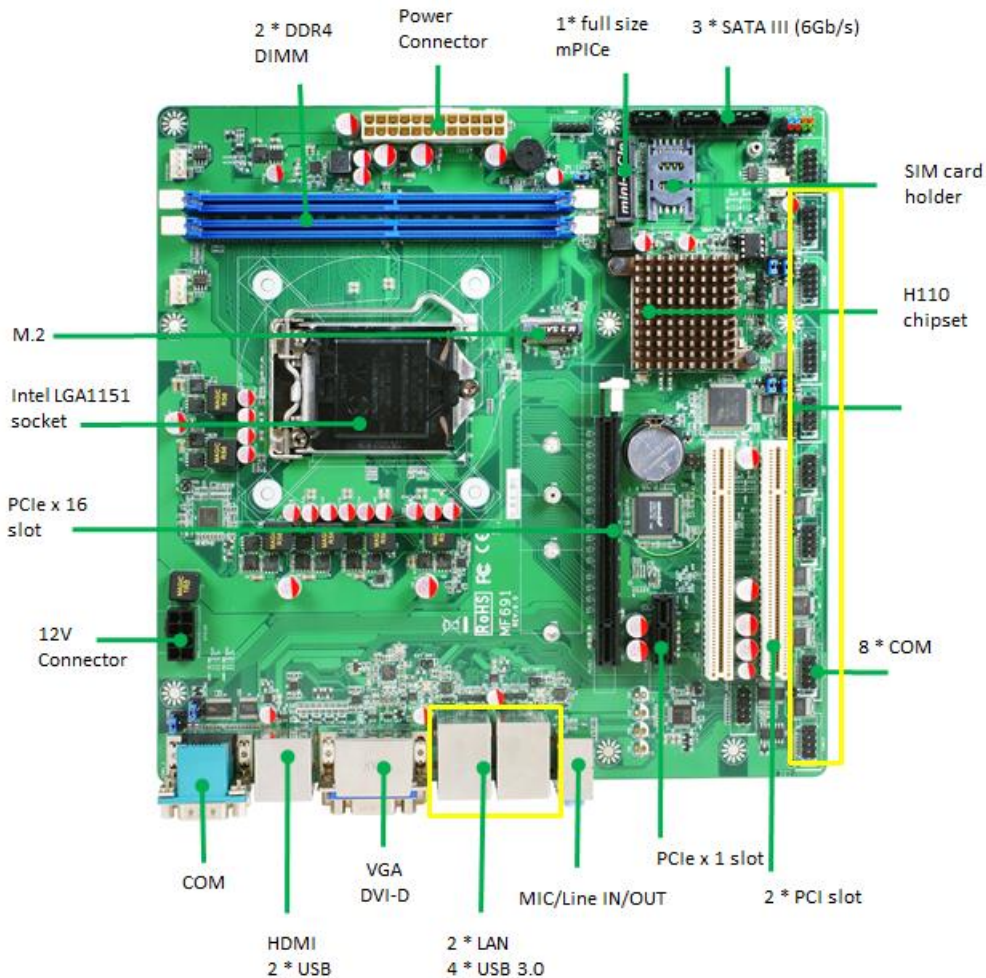


# Micro-ATX Motherboard

# NMF691-H110



1. Intel® LGA1151 Socket Core i3, i5, i7 & Pentium Processors (max. 65W)
2. Intel H110 Express Chipset
3. Support Dual Channel DDR4 2133MHz, 2 \* DIMM slot, up to 32GB memory
4. 2 \* Realtek Gigabit LAN (RTL8111G)
5. 3 \* SATA III (6Gb/s), 1 \* M.2 (M key 2242, 2260, 2280, 22110)
6. 4 \* USB 3.0, 5 \* USB 2.0/1.1
7. 10 \* COM ports (COM1 supports RS232/422/485)
8. Support TPM 1.2 function (option)
9. Micro ATX form factor (244mm x 244mm)



<b>Specifications</b>	
<b>Form Factor</b>	
Dimensions	- Micro ATX (244 * 244mm)
<b>Processor System</b>	
CPU	- Intel LGA 1151 Socket Core i7 / i5 / i3 & Pentium Processors
Core Number	- (By CPU)
Max Speed	- (By CPU)
L2 Cache	- (By CPU)
Chipset	- Intel H110 Chipset
BIOS	- AMI 64Mb Flash ROM
<b>Expansion Slot</b>	
Mini-PCIe	- 1 (full size)
m.2	- 1 (M Key 2242, 2260, 2280, 22110)
PCIe	- 1 * PCIe x16 & 1 * PCIe x 1
PCI	- 2
SIM card holder	- 1
<b>Memory</b>	
Technology	- Dual Channel DDR4 2133MHz
Max.	- 32GB
Socket	- 2 * DIMM
<b>Graphics</b>	
Controller	- Intel® Gen9 Graphics supports DX 11/12, OGL4.3 / 4.4
VRAM	- Shared Memory
VGA	- 1 (Max. Resolution : 1920*1200@60Hz)
DVI-D	- 1 (Max. Resolution : 1920*1200@60Hz)
HDMI	- 1 (Max. Resolution : 3840*2160@24Hz)
DP	- 0
eDP	- 0
MultiDisplay	- Dual Display
<b>Ethernet</b>	
Ethernet	- 10/100/1000 Mbps
Controller	- PCIe GbE LAN : Realtek RTL8111G
Connector	- 2 * RJ 45
<b>Audio</b>	
CODEC	- HD Audio : Realtek ALC662
Channel	- 6 Channel

<b>SATA</b>	
Max Data Transfer Rate	- 3 * SATAIII (6.0Gb/s) and 1 * M.2
RAID	- No
<b>Rear I/O</b>	
VGA	- 1
DVI-D	- 1
HDMI	- 1
Ethernet	- 2
USB	- 4 * USB 3.0, 2 * USB 2.0/1.1
Audio	- 3 (Line-In, Line-Out, MIC)
Serial	- 2 (COM1 support RS232/422/485 )
<b>Internal Connector</b>	
HDMI	- 0
USB	- 3 * USB 2.0
eDP	- 0
Serial	- 8
SATA	- 3
mPCIe	- 1 (full size)
mSATA	- 0
M.2	- 1 (M key 2242, 2260, 2280, 22110)
SIM card holder	- 1
Chassis intrusion	- 1
PS/2	- 1
GPIO	- 1 (8 bit programmable inputs/outputs)
SMBUS/ I2C	- 1
Audio Header	- 1
TPM	- 1 (Option)
AT mode	- 1
<b>Watchdog Timer</b>	
Output	- From Super I/O to drag RESETCON#
Interval	- 256 segments (10sec ~ 255min)
<b>Power Requirements</b>	
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
<b>Certifications</b>	
Certifications	- CE, FCC, RoHS, REACH

Environment	
Temperature	- Operating: 0°C – 60°C
	- Storage: -20°C – 85°C

\*For further information please visit the website at <http://www.jetwayipc.com>

\*The Specification may be changed without further notice.

Product Accessories				
Parts	SATA cable	COM cable	I/O Shield	COM cable
P/N	G01-SATA3-BL-1F	G01-COM9X3-30A-1F	F04-MB-007-1F	G01-COM9-30A-1F