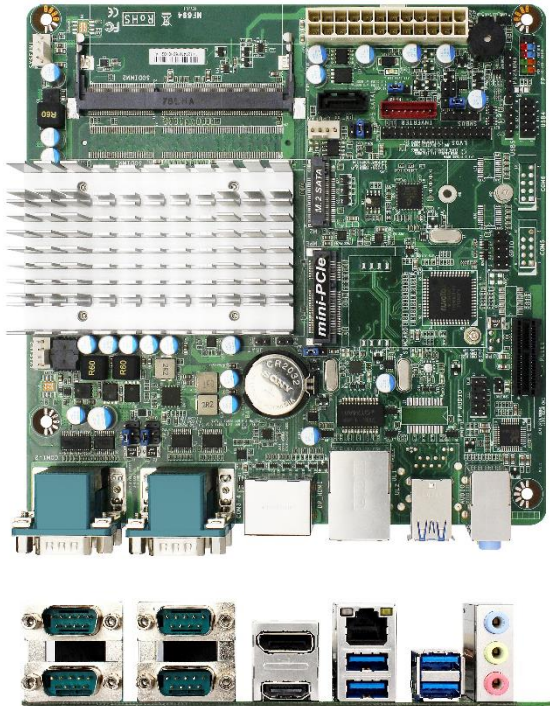


JNF694 Series

Mini-ITX Embedded Motherboard with Intel® Apollo Lake SoC Processor, DDR3L up to 8GB, support 4~6 COM ports



JNF694 Series



JNF694L Series

Overview



The JETWAY JNF694 series are Mini-ITX form factor board adopts the Intel® Apollo Lake SoC Processor. The board supports DDR3L 1867Mhz SODIMM memory, up to 8GB. Featuring the integrated Realtek Gigabit Ethernet controller, the JNF694 offers 10/100/1000Base-TX Ethernet devices for network transmission. SATAIII (6Gb/s) interface and one M.2 (M-key, 2242/2260) offer storage devices. One Mini PCIe interface, four USB3.0 ports, three USB2.0 ports and four to six COM ports provide versatile expansion. The JNF694 offers DP interface which can support max. 4K@60Hz resolution. Because of the above features, JNF694 is one of the best selections for digital signage and automation applications.

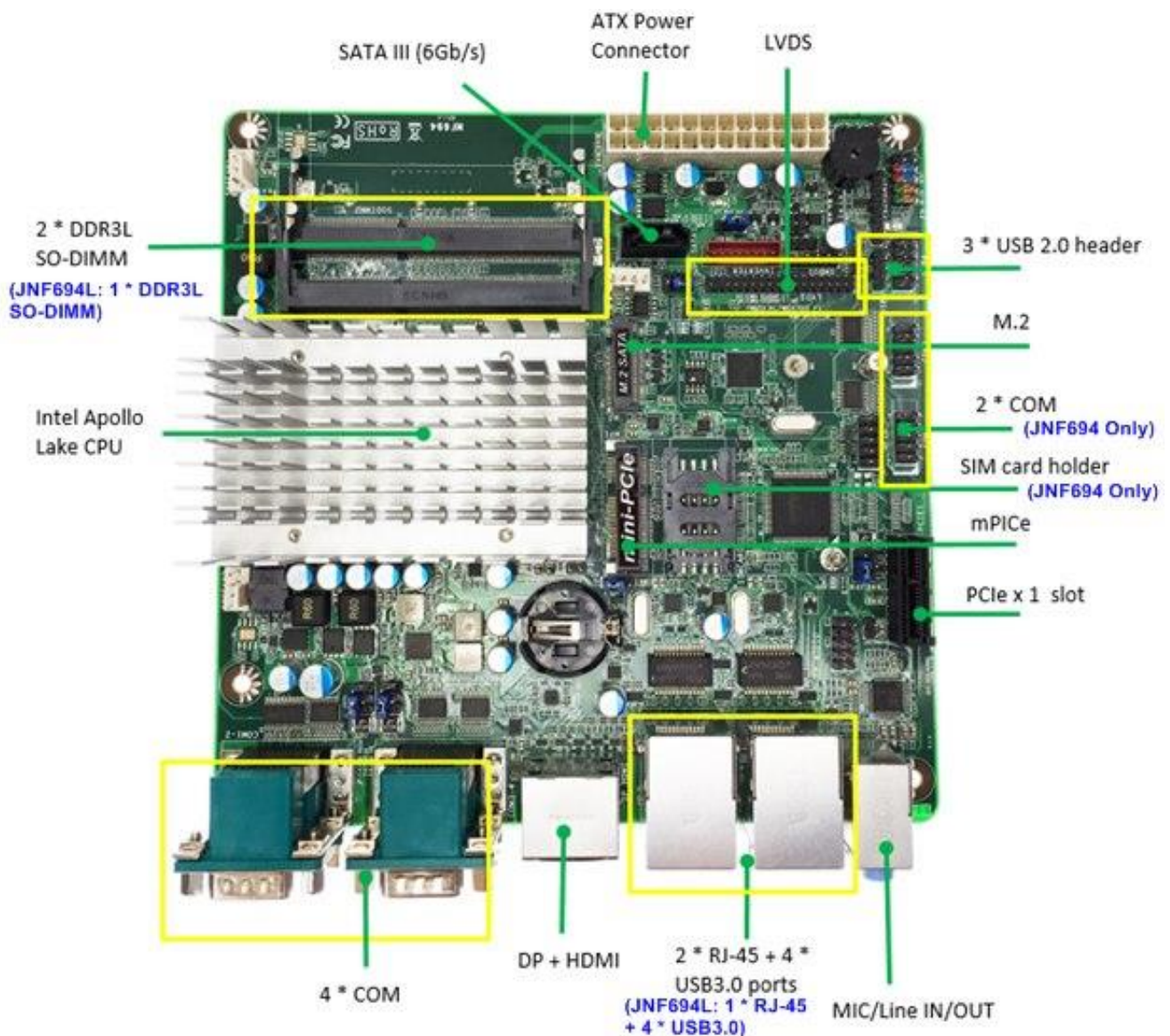
Features

1. Intel® Apollo Lake SoC Processor.
2. 1/2 * DDR3L SODIMM Up to 8 GB
3. 1/2 * 10/100/1000 Base-TX Ethernet Ports
4. Support 1 * HDMI + 1 * DP display
5. 4/6 * COM, 4 * USB3.0 & 2 * USB2.0
6. 1 * PCIe x1 slot, 1* Mini PCIe slot (1* full size),
1 * M.2 (M-key, 2242/2260)
7. Support 1 * SATA III (6Gb/s)
8. 24-pin ATX PWR

Application

- Digital Signage
- Automation
- KIOSK
- POS machine

Internal Diagram



Specifications

Model	JNF694-3350/4200	JNF694L-3350/4200
Form Factor		
Dimensions	- Mini-ITX (6.7-in * 6.7-in, 170 * 170mm)	
Processor System		
CPU	- Intel Apollo Lake SoC Processor	
Core Number	- (by CPU)	
Max Speed	- (by CPU)	
L2 Cache	- (by CPU)	
Chipset	- SoC	
BIOS	- AMI Flash ROM	
Expansion Slot		
PCI	- 0	
Mini-PCIe	- 1 (full size)	
mSATA	- 0	
PCIe	- 1 * PCIe x1	
M.2	- 1 (M-key, 2242/2260)	
CFast Card Socket	- 0	
CF Card Socket	- 0	
SIM Card Holder	- 1	- 0
Memory		
Technology	- Dual CH DDR3L 1867MHz SDRAM	
Max.	- 8GB	
Socket	- 2 * SO-DIMM	- 1 * SO-DIMM
Graphics		
Controller	- Intel® HD Graphics	
VRAM	- Shared Memory	
VGA	- 0	
LVDS	- 1 (max. 1920 x 1080@60Hz resolution)	
eDP 1.3	- 0	
HDMI 1.4	- 1 (Max. Resolution : 3840*2160@24Hz)	
DVI-D	- 0	
DisplayPort 1.2	- 1 (Max. Resolution : 4096*2160@60Hz)	
MultiDisplay	- Triple Displays	
Ethernet		
Ethernet	- 10/100/1000 Mbps	
Controller	- PCIe GbE LAN : Realtek RTL8111H	

Connector	- 2 * RJ 45	- 1 * RJ 45
Audio		
CODEC	- HD Audio : Realtek ALC662	
Channel	- 6 Channel	
SATA		
Max Data Transfer Rate	- 1 * SATAIII (6.0Gb/s)	
Rear I/O		
VGA	- 0	
DVI-D	- 0	
HDMI	- 1	
DisplayPort	- 1	
Ethernet	- 2	- 1
USB	- 4 * USB 3.0	
Audio	- 3 (Line-In, Line-Out, MIC)	
Serial	- 4 (COM1 support RS232/422/485)	- 4
eSATA	- 0	
PS/2	- 0	
DC-input	- 0	
Internal Connector		
USB	- 3 * USB 2.0	
PS/2	- 1	
LVDS / inverter	- 1	
eDP	- 0	
VGA	- 0	
Serial	- 2	- 0
SATA	- 1 * SATAIII (6.0Gb/s)	
mPCIe	- 1 (full size)	
Parallel	- 0	
mSATA	- 0	
M.2	- 1 (M key-2242, 2260)	
GPIO	- 1 (8 bit)	
Chassis intrusion	- 1	
Audio Header	- 1	
SMBUS/ I2C	- 1	
AT mode	- 1	
TPM	- 1 (on board option)	
Others	- 0	

Watchdog Timer	
Output	- From Super I/O to drag RESETCON#
Interval	- 256 segments, 10sec...255min
Power Requirements	
Input PWR	- 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(with 0.7m/s air flow) - Storage: -20°C ~ 85°C
Warranty	
Warranty	- 2 Years Limited Warranty
Packing	
Packing	- Net Weight: - Gross Weight: - Color Box dimension:

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

Optional Accessories

Part Number	Description
	JNF694 M/B
G03-NF694-F	IPC NF694 User's Manual
G02-DVD24-A1-WF	CD Driver
F04-MB-052-F	I/O Shield

Mechanical Drawings (Unit = mm)

