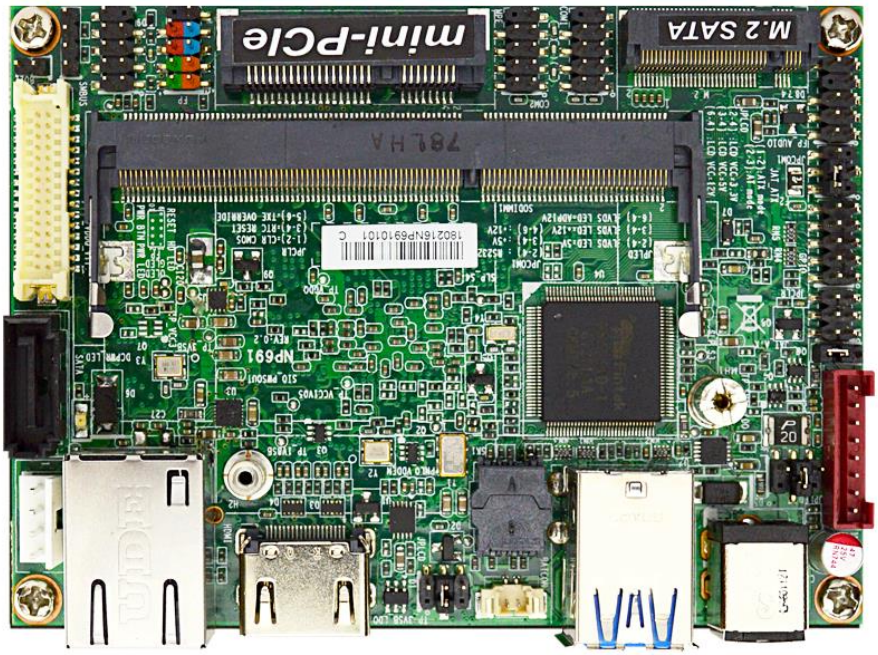
JNP691 Series

Intel® Apollo Lake SoC processor, PICO-ITX size M/B





Product Introduction

The JETWAY JNP691 Series adopts the Intel® Apollo Lake SoC processor. JNP691 Series equipped with DDR3L SO-DIMM slot and M.2 (M-key, 2242) which is suitable for most of the applications.

In addition, it offers flexible expansion with mPCIe slot which can connect other add-on modules. JNP691 Series also has two USB 3.0, two USB 2.0, one RS232 and one RS232/422/485 ports. Customers can connect different peripherals to meet their needs. JNP691 Series also support HDMI/LVDS dual display which can be used for standard main board or panel PC. All of the JNP691 Series designs provide rich features with small dimension.

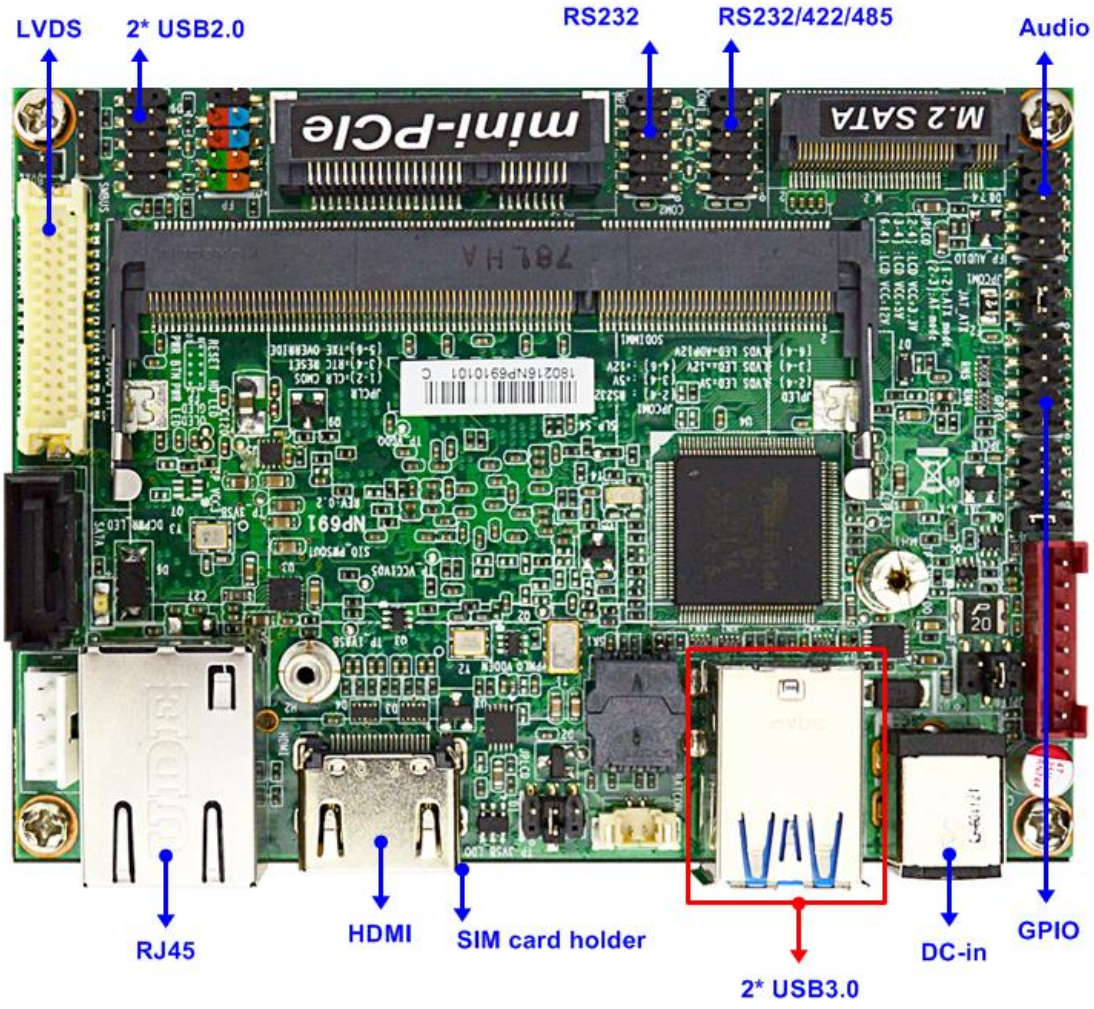
Features

1. Intel® Apollo Lake SoC Processor
2. Support 1 * DDR3L 1866MHz SO-DIMM up to 8GB
3. 1 * GbE
4. Support HDMI and LVDS
5. Support M.2 (M-key, SATA interface, 2242) storage
6. 2 * Internal COM ports
7. 2 * External USB3.0 & 2 * Internal USB2.0
8. 1 * full size Mini-PCIe slot
9. 12V DC-in power

Application

- IoT
- Machine Control
- Intelligent Home

Internal Diagram



Specifications

Part Number		
Part Number	- JNP691-3350	- JNP691-4200 (Default)
From Factor		
Dimensions	- 2.5” (100 * 72mm)	
Processor System		
CPU	- Intel® Apollo Lake SoC Processor	
Core Number	- Dual Core	- Quad Core
Max Speed	- 2.4GHz	- 2.5GHz
L2 Cache	- 2MB	
Chipset	- SoC	
BIOS	- AMI 64Mb Flash ROM	
Expansion Slot		
Mini-PCIe	- 1 (full size)	
M.2	- 1 (M-key, SATA interface, 2242)	
SIM Card Holder	- 1	
Memory		
Technology	- DDR3L 1866MHz SDRAM	
Max.	- 8GB	
Socket	- 1 * SO-DIMM	
Graphics		
Controller	- Intel® HD Graphics	
VRAM	- Shared Memory	
LVDS	- 1 (Max. Resolution: 1920×1080@60Hz)	
HDMI 1.4	- 1 (Max. resolution: 3840x2160@30Hz)	
Multi Display	- Dual Displays	
Ethernet		
Ethernet	- 10/100/1000 Mbps	
Controller	- 1 * Realtek RTL8111H GbE	
Connector	- 1 * RJ45	
Audio		
CODEC	- HD Audio: Realtek ALC662VD	
Channel	- 4 CH (Line-out, MIC)	
SATA		
Max Data Transfer Rate	- 1 * SATAIII (6.0Gb/s)	
Rear I/O		

HDMI	- 1
Ethernet	- 1
USB	- 2 * USB3.0
DC-input	- 1
Internal Connector	
USB	- 2 * USB 2.0
LVDS / inverter	- 1
Serial	- 2 (COM2: RS232 & COM1: RS232/422/485)
SATA	- 1
mPCIe	- 1
M.2	- 1 (M-key, SATA interface, 2242)
GPIO	- 1 (8 bit)
Audio Header	- 1
SMBUS/ I2C	- 1
AT mode	- 1
Watchdog Timer	
Output	- From Super I/O to drag RESETCON#
Interval	- 256 segments
Power Requirements	
Input PWR	- 12V DC-in Power
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, LVD
Environment	
Temperature	- Operating: 0°C ~ 60°C
	- 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.

Accessories

Part Number	Description
	JNP691 Series M/B
G01-COM-H2M22-1F	COM cable
G01-PW4PS-2S-323F	SATA Power cable
G01-SATA3-BL-1F	SATA cable

Mechanical Drawings (Unit = mm)

