JNF711-2807

Intel® Baytrail N2807 CPU, on-board DDR3L up to 2GB, smallest M/B

Product Introduction

The JETWAY JNF711-2807 adopts the Intel® Bay Trail series SoC processor. JNF711-2807 equipped with pin headers to minimize the PCB size to 84x55mm which is as small as credit card. JNF711-2807 is only 1/3 size comparing with popular 3.5" main board. But, Jetway did not sacrifice the features. NF711 equipped with 2GB on board DDR3L memory which is suitable for most of the applications. With Intel Gigabit Ethernet LAN ports, customers can connect intranet and surf the internet.

In addition, it offers flexible expansion with M.2 and mPCIe/mSATA slot which can expand extra storage or connect other add-on modules. NF711 also has one USB 3.0, two USB 2.0, one RS232 and one RS232/422/485 ports. Customers can connect different peripherals to meet their needs. JNF711-2807 also support VGA/eDP dual display which can be used for standard main board or panel PC. All of the JNF711-2807 designs provide rich features with small dimension.
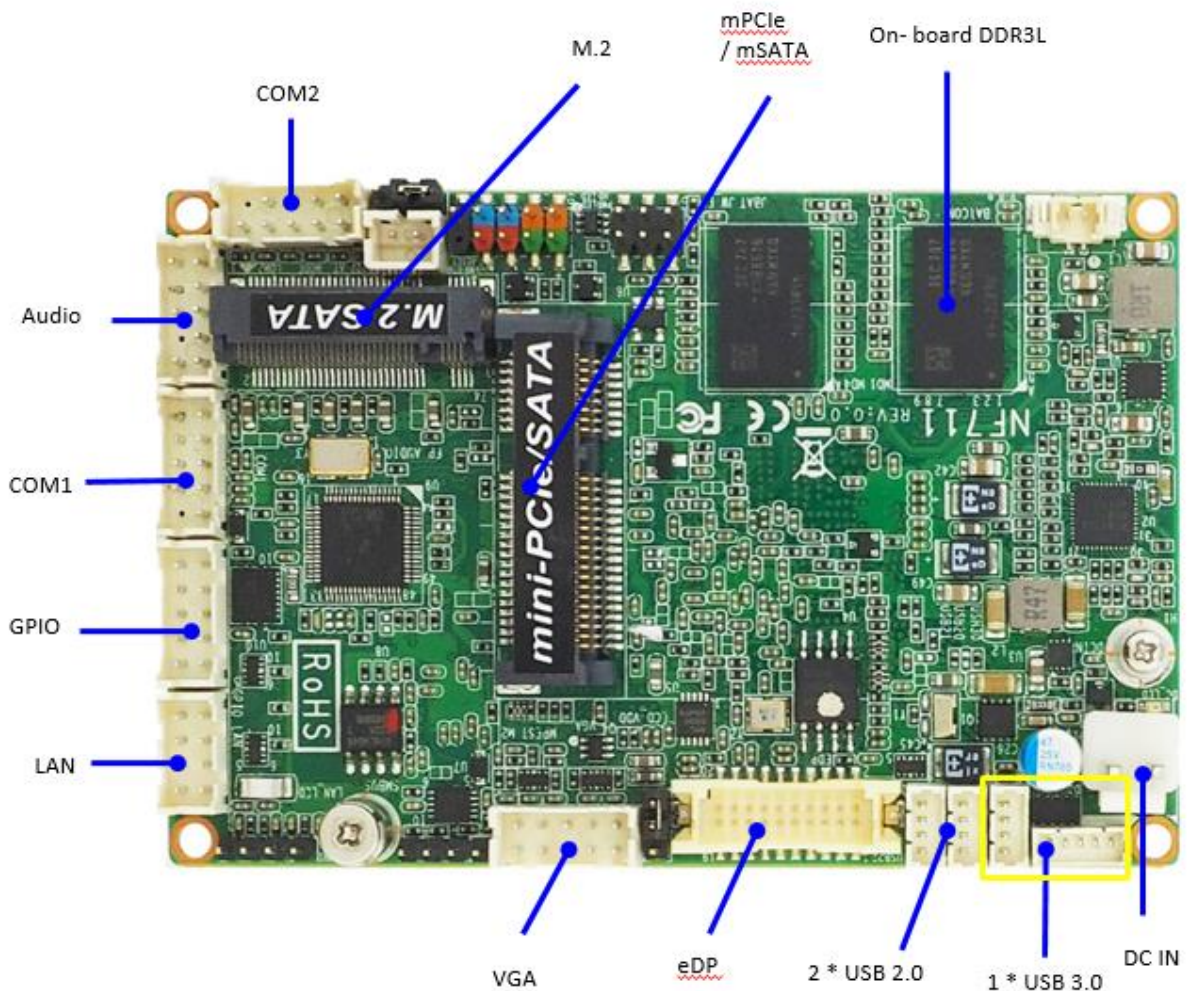
Features

1. Intel® Baytrail N2807 SoC Processor
2. Support DDR3L, on-board 2GB memory
3. 1 * Intel GbE
4. Support VGA and eDP pin header
5. Support M.2 (M key, SATA interface, 2242) storage
6. 2 * Internal COM port
7. 1 * Internal USB3.0 & 2 * Internal USB2.0
8. 1 * full size Mini-PCIe/mSATA slot
9. DC IN 5V power

Application

- IoT
- Machine Control
- Intelligent Home

Internal Diagram

Specifications

Model / Part Number

Model	- JNF711-2807
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From Factor

Dimensions	- 1.8" (84 * 55mm)

Processor System

CPU	- Intel® Baytrail N2807 Processor
Core Number	- (by CPU)
Max Speed	- (by CPU)
L2 Cache	- (by CPU)
Chipset	- SoC
BIOS	- AMI Flash ROM

Expansion Slot

Mini-PCIe	- 1 (full size, shared with mSATA)
mSATA	- 1 (shared with mPCIe)
M.2	- 1 (M key, SATA interface, 2242)

Memory

Technology	- DDR3L 1067/1333 SDRAM
Max.	- 2GB on-board memory
Socket	- 0

Graphics

Controller	- Intel® HD Graphics
VRAM	- Shared Memory
VGA	- 1 (INT pin header, Max. Resolution: 1920 * 1200@60Hz)
eDP	- 1 (Max. Resolution: 2560 * 1600@60Hz)
MultiDisplay	- Dual

Ethernet

Ethernet	- 10/100/1000 Mbps
Controller	- 1 * Intel i211AT GbE

Audio

CODEC	- Realtek ALC662VD
Channel	- MIC/Line Out

SATA

Max Data Transfer Rate	- N/A

Internal Connector

USB	- 1 * USB3.0 & 2 * USB 2.0

eDP	- 1
VGA	- 1
Serial	- 2 (1 * RS232 & 1 * RS232/422/485)
mPCIe	- 1 (full size, shared mSATA)
mSATA	- 1 (Shared)
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	- DC-in 5V 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: -20°C ~ 60°C - Storage: -40°C ~ 70°C - Humidity: 10% ~ 90% RH @40°C (non-condensing)
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
	JNF711 M/B
HCSMIPCIWIFIB-F	Mini PCIe expandable plate
G01-PWDCJK-2P20-F	DC-in PWR cable
	Power cord
L01AS045-F	5V/5A 25W Adapter
J2ADMPESIMBR20	Mini PCIe SIM daughter card