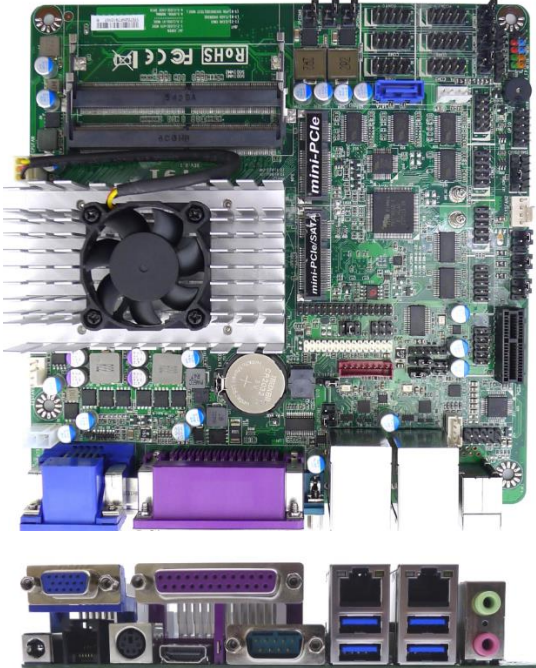


JNF791 Series

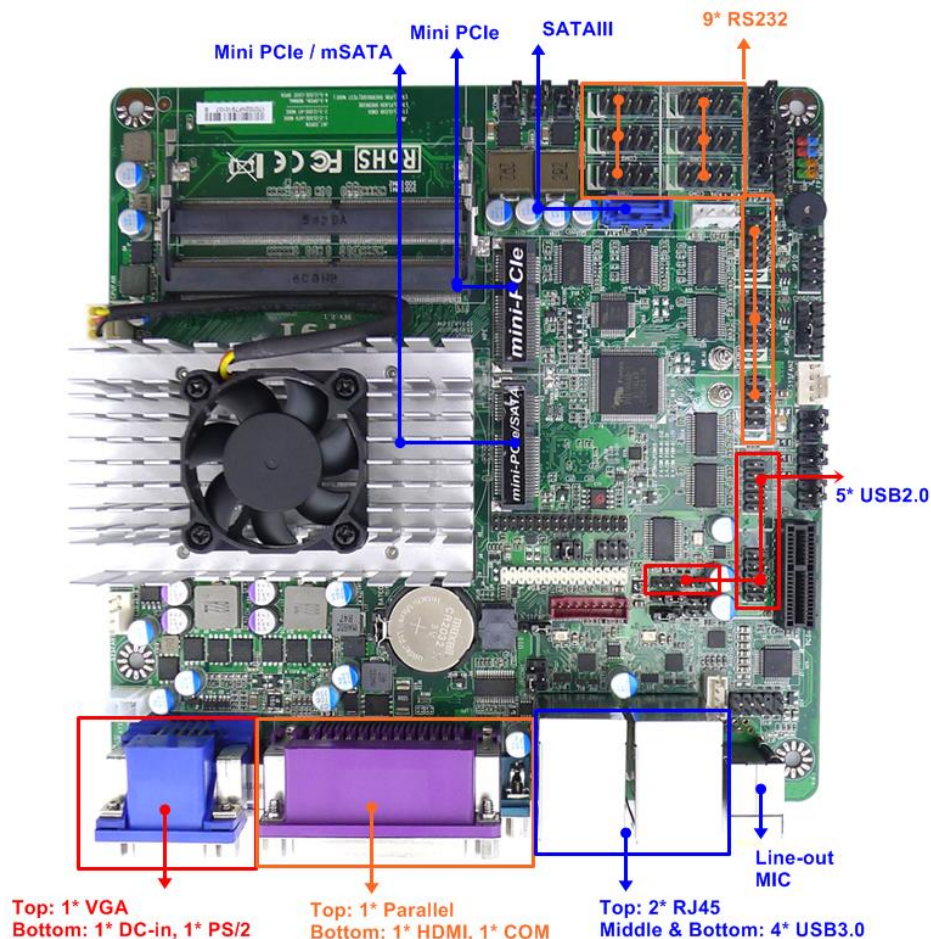
Intel® 6th/7th U-Series SoC Processor, DDR4 up to 32GB memory, support Max. 4K display resolution



1. Intel® 6th/7th U-Series SoC Processor (TDP 15W)
Default: 3955U / Option: 3855U
2. Support DDR4-2133MHz, 2 * SO-DIMM slot, up to 32GB memory
3. Realtek ALC662VD Audio
4. 2 * Realtek RTL8111H GbE
5. Support 1 * SATAIII (6Gb/s)
6. Support HDMI/VGA/LVDS/eDP, triple displays
7. 1 * External RS232/422/485 and 9 * internal RS232
8. 4 * External USB3.0 & 5 * Internal USB1.1/2.0
9. 1 * Mini-PCle/mSATA slot & 1 * Mini-PCle slot & 1 * PCIe x 1 slot
10. 1 * RJ11 & PS/2 connector
11. 12V DC-in power



Internal Diagram



Specifications

Form Factor	
Dimensions	- Mini-ITX (6.7-in * 6.7-in, 170 * 170mm)
Processor System	
CPU	- Intel® 6 th /7 th U-Series SoC Processor (TDP 15W) Default: 3955U / Option: 3855U
Core Number	- (by CPU)
Max Speed	- (by CPU)
L2 Cache	- (by CPU)
Chipset	- SoC
BIOS	- AMI 64Mb Flash ROM
Expansion Slot	
Mini-PCIe	- 1 (full size, shared with mSATA) & 1 (full size)
mSATA	- 1 (shared with mPCIe)
PCIe	- 1 * PCIe x1 slot
Memory	
Technology	- Dual CH DDR4 2133MHz SDRAM
Max.	- 32GB
Socket	- 2 * SO-DIMM
Graphics	
Controller	- Intel® HD Graphics
VRAM	- Shared Memory
VGA	- 1 (Max. Resolution: 1920 * 1200@60Hz)
LVDS	- 1 (Max Resolution: 1920x1080@60Hz. Selectable with eDP, not working while using LVDS)
eDP	- 1 (Max. Resolution: 4096*2304@60Hz. Selectable with LVDS, not working while using eDP)
HDMI 1.4	- 1 (Max Resolution : 4096x2304@24Hz)
MultiDisplay	- Triple Displays
Ethernet	
Ethernet	- 10/100/1000 Mbps
Controller	- 2 * Realtek® RTL8111H GbE
Connector	- 2 * RJ45
Audio	
CODEC	- HD Audio : Realtek ALC662VD
Channel	- 6-CH (Line-out, Line-in, MIC)
SATA	

Max Data Transfer Rate	- 1 * SATAIII (6.0Gb/s)
Rear I/O	
VGA	- 1
HDMI	- 1
Ethernet	- 2
USB	- 4 * USB 3.0
Audio	- 1 (Line-out, Line-in, MIC)
Serial / Parallel	- 1 / 1 (COM1: RS232/422/485)
RJ11	- 1 (12V/24V selectable)
PS/2	- 1
DC-input	- 1
Internal Connector	
USB	- 5 * USB 2.0
LVDS / inverter	- 1 (Selectable with eDP, not working while using LVDS)
eDP	- 1 (Selectable with LVDS, not working while using eDP)
Serial	- 9
SATA	- 1 * SATAIII (6.0Gb/s)
mPCIe	- 1 (full size, shared with mSATA) & 1 (full size)
mSATA	- 1 (shared with mPCIe)
GPIO	- 1 (8 bit)
Chassis intrusion	- 1
Audio Header	- 1
SMBUS/ I2C	- 1
AT mode	- 1
TPM	- N/A
Others	- 3W audio amplifier
Watchdog Timer	
Output	- From Super I/O to drag RESETCON#
Interval	- 256 segments (10sec ~ 255min)
Power Requirements	
Input PWR	- 12V DC-in
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.

Accessories

Part Number	Description
	JNF791 M/B
G01-SATA3-BL-1F	SATAIII cable
G01-COM9-30A-1F	COM cable
F04-MB-014-F	I/O Shield