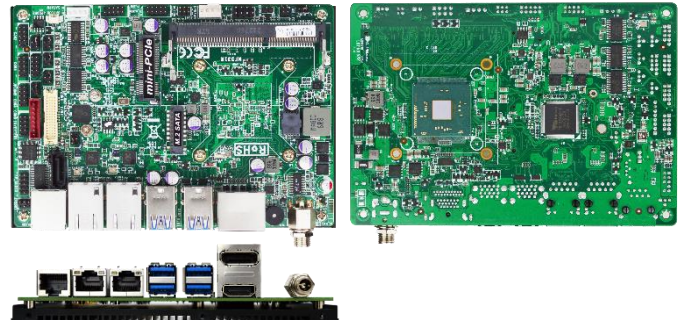


JNF531R-3160

Intel® Braswell N3160 SoC Processor, DDR3L up to 8GB, 1* HDMI, 1* DP, 1* M.2 (M-key), 1* half size mini-PCIe, 2* GbE, 9~36V DC-in

Features

1. Intel® Braswell N3160 SoC Processor
2. 1* DDR3L 1600MHz SODIMM, up to 8GB
3. Support HDMI, Display Port, LVDS (co-lay with eDP) for Triple Independent Displays
4. 2* Realtek RTL8119I GbE
5. Integrated Realtek ALC888S Audio CODEC with 6-CH
6. 1* Serial ATAIII (6Gb/s)
7. 1* External RS232 (RJ45 Type) & 5* Internal COM RS232 (COM2 support RS232/422/485)
8. 4* External USB3.0 & 2 * Internal USB2.0
9. 1* half size Mini-PCIe, 1 * M.2 M-key (2242, SATA interface)
10. 9V~36V Lockable DC-in Jack



intel. FC CE RoHS COMPLIANT

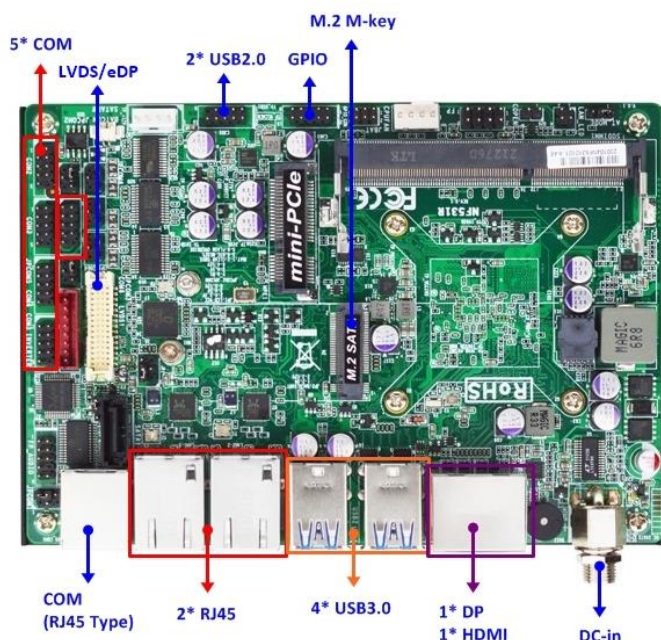
Overview

The JETWAY NF531R series is 3.5" form factor board adopts the Intel® Braswell N3160 SoC Processor. The board supports one SO-DIMM DDR3L 1600MHz memory, up to 8GB. Featuring the integrated Intel® Gigabit Ethernet controller, the NF531R series offers two 10/100/1000Base-TX Ethernet device for network transmission. One half size mini-PCIe, one M.2 M-key (2242, SATA interface), one SATAIII (6Gb/s) offer storage devices. It is flexible expansion via one half size mini PCIe, four USB3.0 ports, two USB2.0 ports and six COM ports (one external RJ45 type, one internal supports RS232/422/485, four internal support only RS232). The NF531R series offers one HDMI port, one Display port and one LVDS (co-lay with eDP). Because of the above features, NF531R series is suitable for Panel PC, IOT Solution, KIOSK, Digital Signage applications.

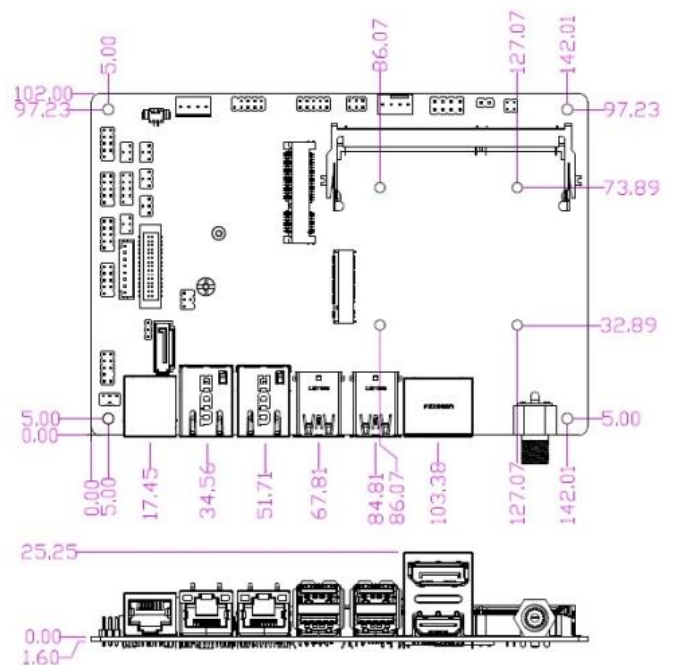
Application

IOT Solution / Panel PC / KIOSK / Digital Signage

I/O Diagram



Mechanical Drawings (Unit=mm)



Specifications

Model	Form Factor
JNF531R-3160 (N3160)	3.5" SBC (148 * 102mm)
Processor System	Memory
<ul style="list-style-type: none">Intel® Braswell N3160 SoC ProcessorAMI 64Mb Flash ROM BIOS	1* DDR3L 1600MHz Single Channel SO-DIMM up to 8GB
Storage	Expansion
<ul style="list-style-type: none">1* SATAIII (6 Gb/s)1* M.2 M-Key (2242, SATA interface)	1* Mini-PCIe (Half size)
Ethernet	Graphics
2* Realtek RTL8119I GbE	<ul style="list-style-type: none">Intel® HD Graphics, shared memory1* DP (Max Resolution: 3840x2160@30Hz, 2560x1600@60Hz)1* HDMI (Max Resolution: 3840x2160@30Hz, 2560x1600@60Hz)1* LVDS (24-bits Dual Channel, co-lay with eDP)Support Triple Displays
Audio	Watchdog Timer
HD audio: Realtek ALC888S	<ul style="list-style-type: none">From Super I/O to drag RESETCON#256 segments (10sec ~ 255min)
Internal I/O	External I/O
<ul style="list-style-type: none">2* USB2.01* LVDS (co-lay with eDP)1* Inverter5* COM RS232 (COM2 support RS232/422/485)1* SATAIII1* Chassis intrusion1* GPIO1* Audio Header1* AT mode	<ul style="list-style-type: none">1* COM (RJ45 Type)2* RJ454* USB3.01* DP1* HDMI9V~36V Lockable DC-in
Power	Compliance
9V~36V DC-in PWR - AT: Directly PWR on as Power input ready - ATX: Press Button to PWR on after Power input ready	CE, FCC, RoHS, REACH
Temperature	OS Support
<ul style="list-style-type: none">Operating Temperature: 0 ~ 60° CStorage Temperature: -20 ~ 85° CHumidity: 10% ~ 90% RH @40°C (non-condensing)	Win7 SP1 64-bit, Win8.1 64-bit, Win10 64-bit, UEFI Win10 64-bit, Win 10 IoT Enterprise 64-bit LTSC 2019, UEFI Win 11 64-bit, UEFI Win 11 IoT Enterprise, Server 2012R2 64-bit, Server 2016 64-bit, Server 2019 64-bit, Server 2022 64-bit, WE Standard 7 SP1 64-bit, WE Standard 8.1 64-bit, Android x86 (Version 9.0-r2), CentOS 9 (Version 9), Debian 11 (Version 11.2.0), Fedora-LXDE (Version 35-1.2), Fedora Workstation (Version 35-1.2), Fedora Server (Version 35-1.2), FreeBSD (Version 13), OpenSUSE (Version 15.3-3), OpenBSD (Version 70), pfSense (Version 2.6.0), RedHat Enterprise (Version 8.4), TrueNAS (Version 11.3-U5), Ubuntu Standard / LTS (Version 20.04.3), Ubuntu Server (Version 20.04.3)
Warranty	
2 Years limited warranty	

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

Standard Accessories

Part Number	Description
	JNF531R-3160 M/B
G01-COM-H2M22-1F	2* COM cable
G01-SATA3-BL-1F	1* SATA cable
G01-PW4PS-2S-323F	1* SATA Power Y cable
HCS365MHT01B-F	1* Fin type Heatsink