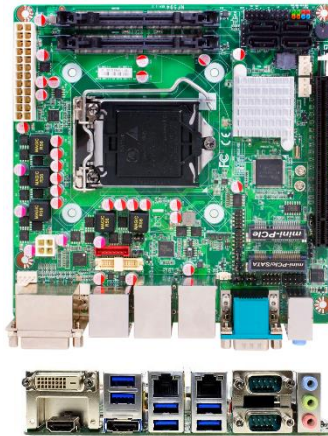


JNF594-Q170

Support 2* DDR4 up to 32GB, 4* SATAIII support RAID 0, 1, 5, 10, 1* mSATA, Support 6* USB 3.0, 2* USB 2.0, 4* COM, Support triple display

Features

1. Intel® Q170 Express Chipset
2. Supports Intel LGA 1151 Socket Core™ i3, i5, i7 & Pentium/Celeron Processors (Max. 65W)
3. 2* Dual Channel DDR4 2133MHz up to 32GB
4. 2* Intel GbE with iAMT feature
5. Integrated Realtek ALC888S Audio CODEC 6-CH
6. Support 1* PCIe x16 slot
7. 4* SATAIII (6Gb/s) support RAID 0, 1, 5, 10
8. HDMI/DP/DVI-D Video Outputs & LVDS pin header
9. Built-in Watchdog Timer Technology



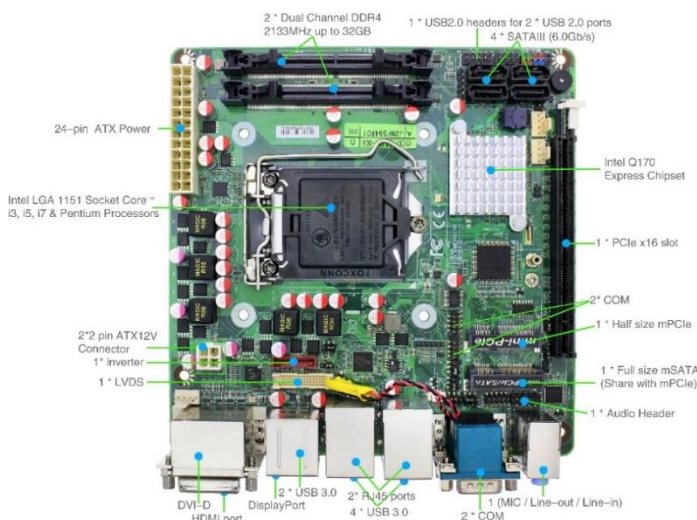
Overview

The JETWAY JNF594-Q170 Series is Mini-ITX form factor board adopts the Intel® LGA 1151 Socket Core™ i3, i5, i7 & Pentium/Celeron Processors. The board supports two SO-DIMM DDR4 2133MHz memory, up to 32GB. Featuring the integrated Intel® Gigabit Ethernet controller, the JNF594-Q170 offers two 10/100/1000Base-TX Ethernet devices for network transmission. Four SATAIII (6Gb/s) interface and one mSATA (shared with full size mini-PCIe) offer storage devices. Two mini-PCIe (one full size and one half size), six USB3.0 ports, two USB2.0 ports and four COM port provide versatile expansion. The PCIe x16 slot can support Jetway riser card for different expansion. The JNF594-Q170 offers one HDMI2.0 port, one DP1.2 port, one DVI-D port and one 24-bits Dual CH LVDS which can support three independent displays. Because of the above features, JNF594-Q170 is suitable for Edge Computing, Digital Signage, Industrial PCs, Factory Automation, Public Sector, Digital Security and Surveillance applications.

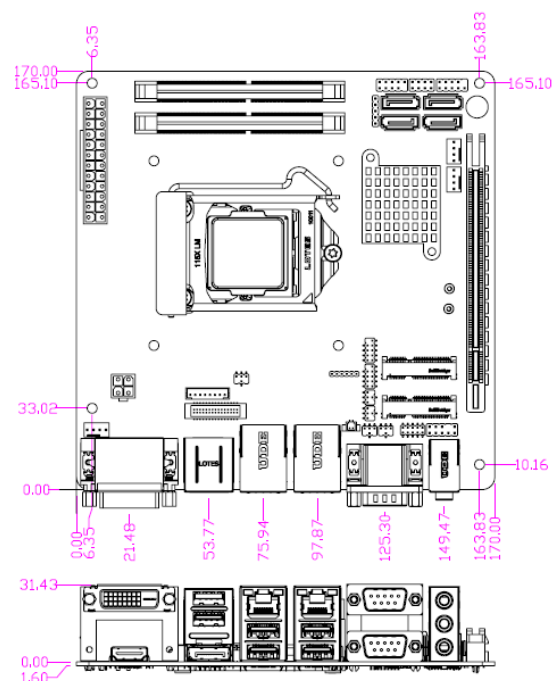
Application

Edge Computing / Digital Signage / Industrial PCs / Factory Automation / Public Sector / Digital Security / Surveillance

I/O Diagram



Mechanical Drawings (Unit=mm)



Specifications

Model	Form Factor
JNF594-Q170	Mini-ITX (170 * 170mm)
Processor System	Memory
<ul style="list-style-type: none">Intel® LGA 1151 Socket Core i7 / i5 / i3 / Pentium / Celeron Processor (Max. 65W)AMI 128Mb Flash ROM BIOS	2* DDR4 2133MHz Dual Channel SO-DIMM up to 32GB
Storage	Expansion
<ul style="list-style-type: none">4* SATAIII (6 Gb/s) support RAID 0, 1, 5, 101* mSATA (Full size, shared with full size mini-PCIe)	<ul style="list-style-type: none">1* PCIe x162* Mini-PCIe (one half size & one full size shared with mSATA)
Ethernet	Graphics
1* Intel i219-LM GbE 1* Intel i211-AT GbE	<ul style="list-style-type: none">Intel® Gen9 Graphics supports DX 11/12, OGL4.3/4.41* HDMI2.0 (Max Resolution: 4096x2160@60Hz)1* DP1.2 (Max Resolution: 4096x2304@60Hz)1* LVDS (24 bits dual channel, support up to 1920x1200@60Hz)1* DVI-D (support up to 1920x1080@60Hz)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 (0sec ~ 255min)
Internal I/O	External I/O
<ul style="list-style-type: none">2* USB2.04* SATAIII2* COM (COM3 support RS232/422/485)1* LVDS1* PS/21* Chassis intrusion1* GPIO1* Audio Header1* AT mode1* TPM (optional)	Rear: <ul style="list-style-type: none">2* RJ456* USB3.01* HDMI2.01* DP1.21* DVI-D1* Audio (MIC / Line-out / Line-in)2* COM (COM1 support RS232/422/485)
Power	Compliance
ATX PWR (24+4-pin) - 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)	Windows, Linux
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
	JNF594-Q170 M/B
G01-SATA3-BL-1F	2* SATA cable
F04-MB-049-F	NF594 I/O Shield