

## JNF796F-C246

Intel® 8th/9th Generation Xeon E-series, Core™ i7/ i5 /i3, Pentium® LGA1151 Socket Processor, C246 Chipset, Max. 95W TDP, Support Intel AMT

1. Intel® 8/9th LGA1151 Socket Processor (Max. 95W TDP)
2. 2\* DDR4 2400/2666MHz ECC SO-DIMM up to 64GB
3. 1\* HDMI, 1\* DP, 1\* VGA, 1\* LVDS
4. 2\* GbE, 4\* RS232, 2\* RS232/422/485, 4\* USB3.1 (Gen.2), 6\* USB3.1 (Gen.1), 2\* USB2.0
5. 1\* PCIe x16, 1\* M.2 M-key 2242/2280 (SATA/PCIex4) support NVMe, 1\* M.2 E-key 2230 (PCIex1/USB2.0) support CNVi, 5\* SATAIII
6. Support onboard TPM 2.0 (option)



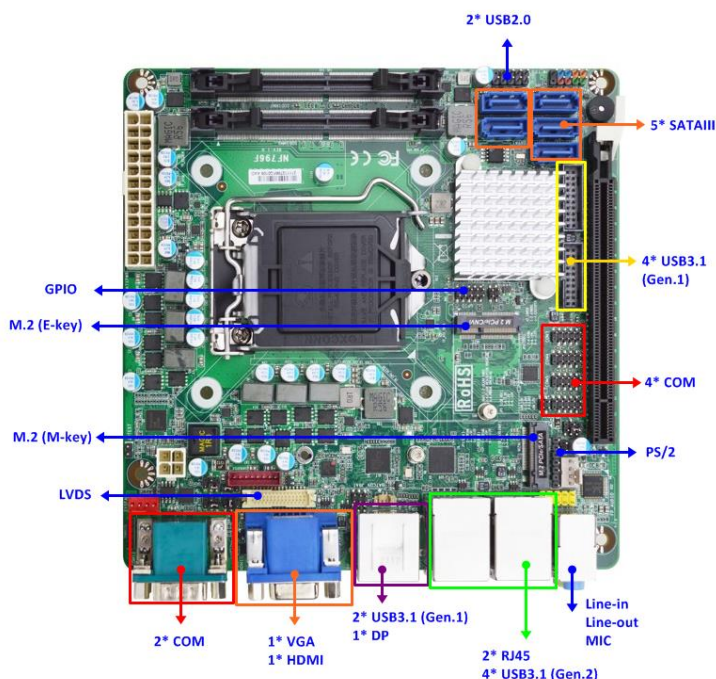
### Overview

The JETWAY JNF796F-C246 is Mini-ITX form factor board adopts the Intel® 8<sup>th</sup>/9<sup>th</sup> generation Xeon E-series, Core i7/i5/i3, Pentium and Celeron Processor. The board supports two SO-DIMM DDR4 2400/2666MHz ECC memory, up to 64GB. Featuring the integrated Intel® Gigabit Ethernet controller, the JNF796F-C246 offers two 10/100/1000Base-TX Ethernet devices for network transmission. Five SATAIII (6Gb/s) interface and one M.2 M-key 2242/2280 (SATA/PCIex4) support NVMe offer storage devices. One M.2 E-key 2230 (PCIex1/USB2.0) support CNVi, four USB3.1 Gen.2 ports, six USB3.1 Gen.1 ports, two USB2.0 ports and six COM port provide versatile expansion. The PCIe16 slot can support Jetway riser card for different expansion. The JNF796F-C246 offers one HDMI1.4 port, one DP1.4 port, one VGA port and one 24-bits Dual CH LVDS which can support 3 independent displays. Because of the above features, JNF796F-C246 is suitable for Edge Computing, Digital Signage, Industrial PCs, Factory Automation, Public Sector, Digital Security and Surveillance applications.

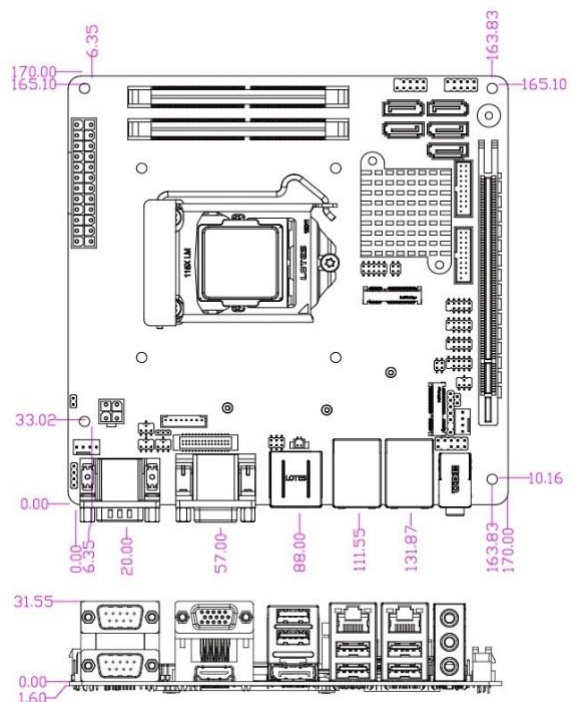
### Application

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

### I/O Diagram



### Mechanical Drawings (Unit = mm)



## Specifications

<b>Model</b>	<b>Form Factor</b>
JNF796F-C246	Mini-ITX (6.7-in * 6.7-in, 170 * 170mm)
<b>Processor System</b>	<b>Expansion Slot</b>
<ul style="list-style-type: none"><li>Intel® 8/9th LGA 1151 Socket Xeon E-series, Core i7/i5/i3/Pentium/Celeron Processor (Max. 95W TDP)</li><li>Intel C246 Express chipset</li><li>AMI 128Mb Flash ROM BIOS</li></ul>	<ul style="list-style-type: none"><li>1* M.2 E-key 2230 (PCIex1/USB2.0) support CNVi</li><li>1* PCIex16 slot</li></ul>
<b>Memory</b>	<b>Graphics</b>
2* Dual CH DDR4 2400/2666MHz SDRAM ECC SO-DIMM up to 64GB	<ul style="list-style-type: none"><li>Intel® HD Graphics, shared memory</li><li>1* VGA (Max Resolution: 1920 x 1200@60Hz)</li><li>1* LVDS (Max Resolution: 1920 x 1200@60Hz)</li><li>1* HDMI 1.4 (Max Resolution: 4096 x 2160@30Hz)</li><li>1* DP (Max Resolution: 4096 x 2304@60Hz)</li><li>Support Triple Displays</li></ul>
<b>Ethernet</b>	<b>Storage</b>
<ul style="list-style-type: none"><li>1* Intel i219LM GbE</li><li>1* Intel i210AT GbE</li></ul>	<ul style="list-style-type: none"><li>5* SATAIII (6Gb/s) support RAID 0, 1, 5, 10</li><li>1* M.2 M-key 2242/2280 (SATA/PCIex4) support NVMe</li></ul>
<b>Rear I/O</b>	<b>Internal Connector</b>
<ul style="list-style-type: none"><li>1* VGA</li><li>1* HDMI</li><li>1* DP</li><li>2* RJ45</li><li>4* USB3.1 (Gen. 2)</li><li>2* USB3.1 (Gen. 1)</li><li>Line-in, Line-out, MIC</li><li>2* RS232/422/485</li></ul>	<ul style="list-style-type: none"><li>4* USB3.1 (Gen. 1)</li><li>2* USB 2.0</li><li>1* PS/2</li><li>1* LVDS / Inverter</li><li>4* COM</li><li>5* SATAIII</li><li>1* M.2 E-key (2230)</li><li>1* M.2 M-key (2242/2280)</li><li>1* GPIO (8 bit)</li><li>1* Chassis intrusion</li><li>1* Audio Header</li><li>1* SMBUS</li><li>1* AT mode</li><li>Support onboard TPM2.0 (option)</li></ul>
<b>Audio</b>	<b>Watchdog Timer</b>
6 channel HD audio: Realtek ALC662VD	<ul style="list-style-type: none"><li>From Super I/O to drag RESETCON#</li><li>256 segments (10sec ~ 255min)</li></ul>
<b>Power</b>	<b>Compliance</b>
ATX PWR (4+24 pin), AT/ATX Supported - AT: Directly PWR on as Power input ready - ATX: Press Button to PWR on after Power input ready	CE, FCC, LVD, RoHS, REACH
<b>Temperature</b>	<b>OS Support</b>
<ul style="list-style-type: none"><li>Operating: 0°C ~ 60°C</li><li>Storage: -20°C ~ 85°C</li><li>Humidity: 10% ~ 90% RH @40°C (non-condensing)</li></ul>	Windows 10, Linux
<b>Warranty</b>	
2 Years Limited Warranty	

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

## Accessories

Parts Number	Description	Parts Number	Description
-----	JNF796F-C246 M/B	G01-COM-H2M20-1F	COM cable
F04-MB-073-F	JNF796 I/O shield	G01-SATA3-BL-1F	SATAIII cable