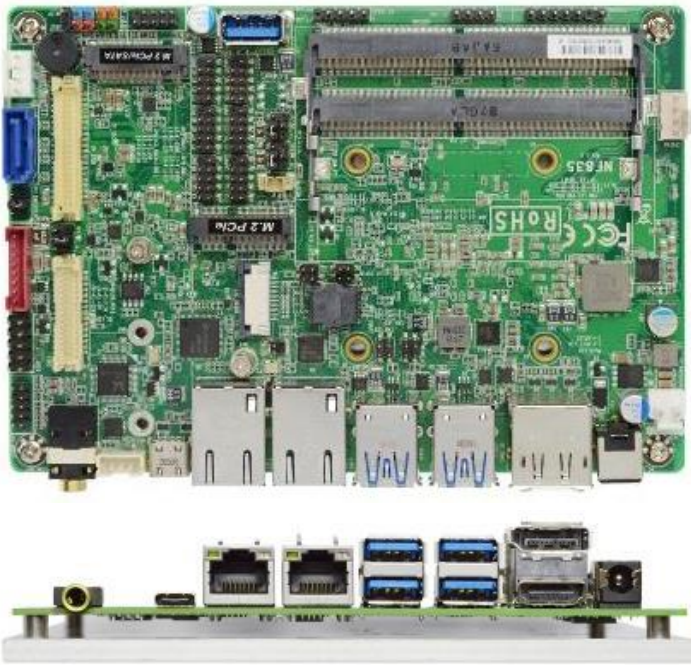


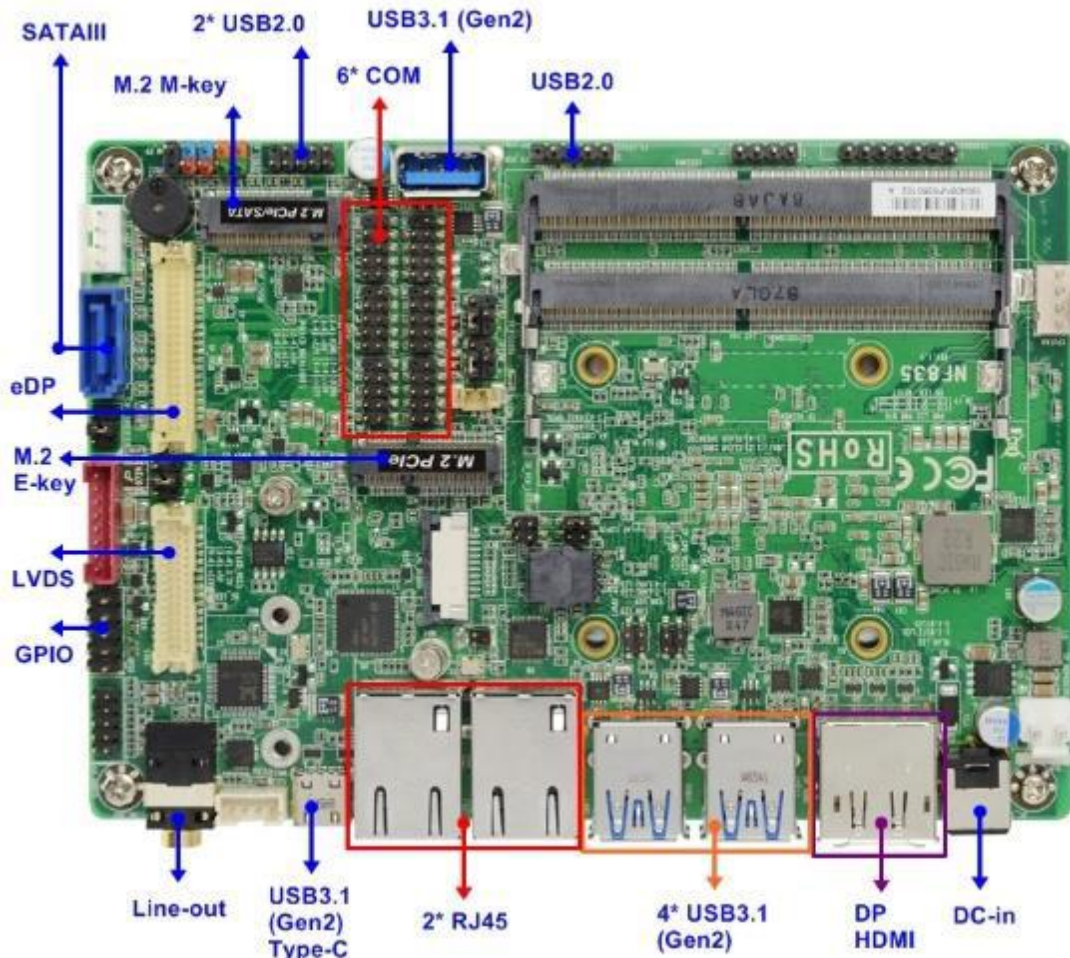
# NF835F

3.5" SBC Industrial Motherboard / Whiskey Lake  
4K / DP+HDMI+LVDS/eDP / 2 Intel GbE / 9V-24V



## Features

1. Long-Life Embedded Class Industrial Motherboard with Planned Lifecycle Through Q2'2034
2. CPU on Bottom for Easy Integration into Fanless Systems
3. Intel Core i5-8365U SoC, Quad-Core, 15W
4. 2 \* DDR4-2400 SODIMM Slots up to 32GB Total
5. Up to 3 Displays, DP 4K@60, HDMI, 24bit LVDS/eDP
6. 1 \* SATA3 6Gb/s, M.2 SATA & PCIE x4 NVME 2242/2280
7. 1 \* M.2 2230 Slot for WIFI, Optional TPM 2.0
8. 2 \* Intel Gigabit LAN, Supporting iAMT, HD Audio
9. 6 \* Serial Headers, 8-bit GPIO, Watchdog Timer
10. 6 \* USB 3.1 Gen2, 9V - 24V DC-In Jack or 2-pin Internal
11. 3.5" SBC Form Factor (148mm x 102mm)
12. Ships with Silver Heatsink for Direct Attaching to Surface



<b>Model / Series</b>	<ul style="list-style-type: none"> <li>NF835F</li> </ul>
<b>Part No</b>	<ul style="list-style-type: none"> <li>JNF835F-8365U (no TPM), JNF835F2-8365U (TPM 2.0)</li> </ul>
<b>Processor</b>	<ul style="list-style-type: none"> <li>Intel Core i5-8365U SoC, Quad-Core, 15W TDP, Whiskey Lake-U</li> <li>*Ships with flat silver heatsink for direct attaching to a surface</li> </ul>
<b>Chipset</b>	<ul style="list-style-type: none"> <li>SoC</li> </ul>
<b>Video</b>	<ul style="list-style-type: none"> <li>Intel HD Graphics</li> </ul>
<b>Memory</b>	<ul style="list-style-type: none"> <li>2 * 260-pin SO-DIMM slots supporting DDR4-2400 up to 32GB total</li> </ul>
<b>Expansion Slots</b>	<ul style="list-style-type: none"> <li>1 * M.2 2230 for WIFI</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>1 * SATA3 6Gb/s port</li> <li>1 * M.2 SATA &amp; PCIE 3.0 x4 NVME 2242/2260/2280</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>Realtek HD Audio, L+R 3W Amplifier Header</li> </ul>
<b>Network</b>	<ul style="list-style-type: none"> <li>Intel i211-AT Gigabit LAN, Intel i219-LM Gigabit LAN supporting iAMT &amp; vPro</li> </ul>
<b>Other Features</b>	<ul style="list-style-type: none"> <li>ACPI S3, AHCI, CPU Smart FAN, Watchdog Timer 10-255 min/sec, Optional TPM 2.0</li> </ul>
<b>Rear Panel I/O</b>	<ul style="list-style-type: none"> <li>4 * USB 3.1 Gen2 ports, 1 * USB 3.1 Gen2 port Type-C</li> <li>2 * RJ-45 ports</li> <li>DisplayPort (4096 x 2304 @60Hz)</li> <li>HDMI (4096x2160 @24Hz)</li> <li>Line Out</li> <li>9V - 24V DC-in jack</li> </ul>
<b>Front Panel I/O</b>	<ul style="list-style-type: none"> <li>Front Panel Header</li> </ul>
<b>Internal I/O</b>	<ul style="list-style-type: none"> <li>2 * USB Headers for 3 * USB 2.0 ports</li> <li>1 * USB 3.1 Gen2 type-A vertical port</li> <li>eDP/24bit Dual Channel LVDS header &amp; Inverter, SMBUS Header</li> <li>6 * Serial port headers (5 * RS232, 1 * RS232/422/485), 1 * PS2 KB/MS combo header</li> <li>8-bit GPIO header, Chassis Intrusion Header, AT/ATX power switch mode jumper</li> </ul>
<b>BIOS</b>	<ul style="list-style-type: none"> <li>AMI 128Mb Flash ROM</li> </ul>
<b>Box Contents</b>	<ul style="list-style-type: none"> <li>NF835F Motherboard, SATA Cable, Internal Power Cable</li> </ul>
<b>Certification</b>	<ul style="list-style-type: none"> <li>CE, FCC, RoHS, ErP</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>Operating Temperature 0~60 ° C, Storage Temperature -20-85 ° C</li> </ul>
<b>Form Factor</b>	<ul style="list-style-type: none"> <li>3.5" SBC Form Factor (148mm x 102mm)</li> </ul>
<b>Warranty</b>	<ul style="list-style-type: none"> <li>2 Years Limited Warranty</li> </ul>

\*Specifications subject to change without notice, not responsible for typographical errors.



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