

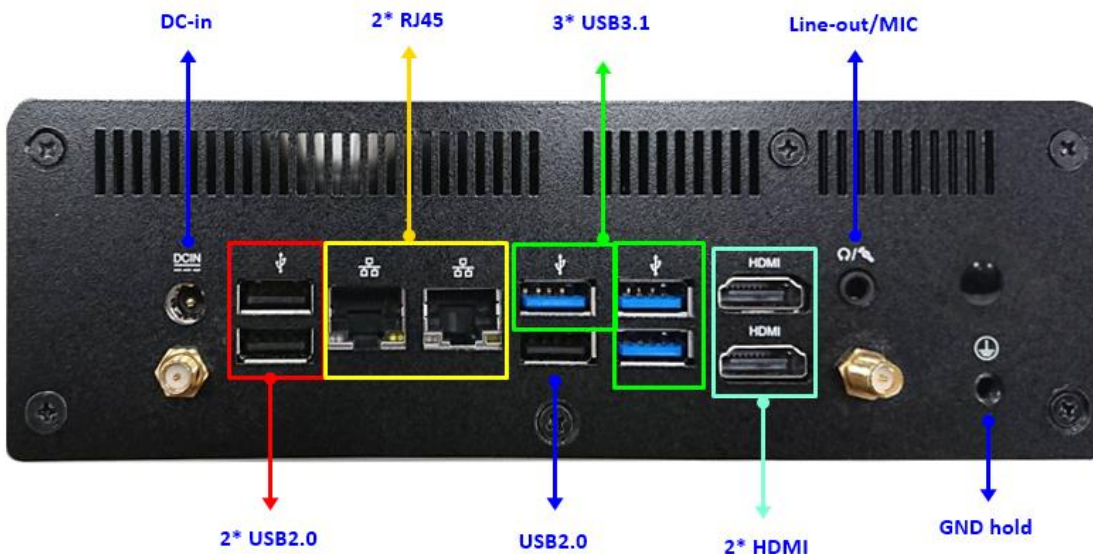
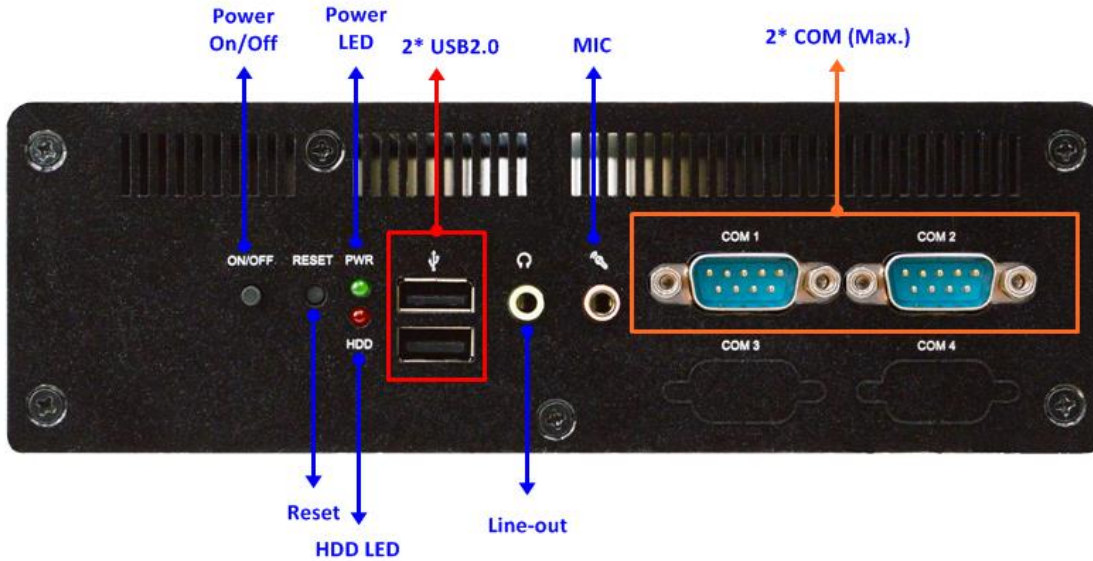
# FDF04V

## Fanless Elkhart Lake Embedded Barebone 2\*4K Displays / 2\*2.5GbE / 3\*M.2 Slots



### Features

- Fanless Embedded Barebone System with Planned Lifecycle Through Q1'2036
- Intel Elkhart Lake Low Power Processors
- Supports DDR4-3200 up to 32GB Total Memory
- Up to 2 \* 4K HDMI Displays, 1 \* 2.5" SATA3 Bay
- M.2 SATA/PCIE 3.0 x2 NVME, M.2 2230 for WIFI
- M.2 3042 with SIM, 2 \* Intel 2.5GbE
- 3 \* USB 3.2 Gen2, 5 \* USB 2.0, 2 \* Serial Ports
- Watchdog Timer, 12V -24V DC-In, 60W AC Adapter
- Includes Wall and Din Rail Mounting Brackets



|                        |   |
|------------------------|---|
| <b>Model</b>           | <ul style="list-style-type: none"> <li>■ FDF04V</li> </ul>  |
| <b>Part No</b>         | <ul style="list-style-type: none"> <li>■ HBFDF04-6412-V (no TPM), HBFDF04-6412-VT (TPM 2.0)</li> <li>■ HBFDF04I-6412-V (WIFI, no TPM), HBFDF04I-6412-VT (WIFI, TPM 2.0)</li> </ul>  |
| <b>Processor</b>       | <ul style="list-style-type: none"> <li>■ Fanless Intel Celeron J6412 Quad-core SoC, Elkhart Lake</li> </ul>   |
| <b>Memory</b>          | <ul style="list-style-type: none"> <li>■ 2 * 260-pin DDR4-3200 SO-DIMM up to 32GB total memory</li> </ul>   |
| <b>Storage</b>         | <ul style="list-style-type: none"> <li>■ Onboard 64GB EMMC</li> <li>■ 1 * 2.5" internal bay for SATA3 6Gb/s</li> <li>■ 1 * M.2 M-key 2242/2280 SATA3/PCIE 3.0 x2 NVME</li> </ul>  |
| <b>Network</b>         | <ul style="list-style-type: none"> <li>■ 2 * Intel i225/i226-V 2.5GbE</li> <li>■ WIFI Model: includes M.2 AC-WIFI+BT</li> <li>■ Non-WIFI Model: open M.2 E-key 2230 slot (USB/PCIE)</li> <li>■ M.2 B-key 3042/3052 with SIM card slot for Cellular (USB signal)</li> </ul>  |
| <b>Other Features</b>  | <ul style="list-style-type: none"> <li>■ AHCI, Watchdog Timer 10-255 min/sec., AT/ATX Power Mode, Optional Onboard TPM 2.0</li> </ul>   |
| <b>Front Panel I/O</b> | <ul style="list-style-type: none"> <li>■ Power, Reset, LEDs</li> <li>■ 2 * USB 2.0 ports</li> <li>■ Line-out, Microphone</li> <li>■ Up to 4 * Serial ports (2 * RS232, 2 * RS232/422/485) (2 * installed &amp; 2 * cables in box)</li> </ul>                                |
| <b>Rear Panel I/O</b>  | <ul style="list-style-type: none"> <li>■ 3 * USB 3.2 Gen2 ports (10Gb/s), 3 * USB 2.0 ports</li> <li>■ 2 * RJ45</li> <li>■ 2 * HDMI 2.0b 4K@60Hz</li> <li>■ Line-out/Mic Combo jack</li> <li>■ 12V - 24V DC-in jack</li> <li>■ 2 * Antenna holes, 1*DB9 punchout</li> </ul> |
| <b>BIOS</b>            | <ul style="list-style-type: none"> <li>■ AMI Flash ROM</li> </ul>   |
| <b>Box Contents</b>    | <ul style="list-style-type: none"> <li>■ 60W 12V AC Adapter, US Power Cord, Wall/DIN Mount Brackets, Antenna (WIFI model)</li> </ul>  |
| <b>Compliance</b>      | <ul style="list-style-type: none"> <li>■ CE, FCC, RoHS, ErP Ready</li> </ul>  |
| <b>Temperature</b>     | <ul style="list-style-type: none"> <li>■ Operating Temperature 0 ~ 50 ° C</li> <li>■ Storage Temperature -40 - 85° C</li> </ul>   |
| <b>Dimensions</b>      | <ul style="list-style-type: none"> <li>■ 142.4 x 193 x 62mm (DxWxH)</li> </ul>  |
| <b>OS Support</b>      | <ul style="list-style-type: none"> <li>■ Windows 10 64bit, Windows 11, Linux</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. Does not include memory, HDD, optical, or OS.



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