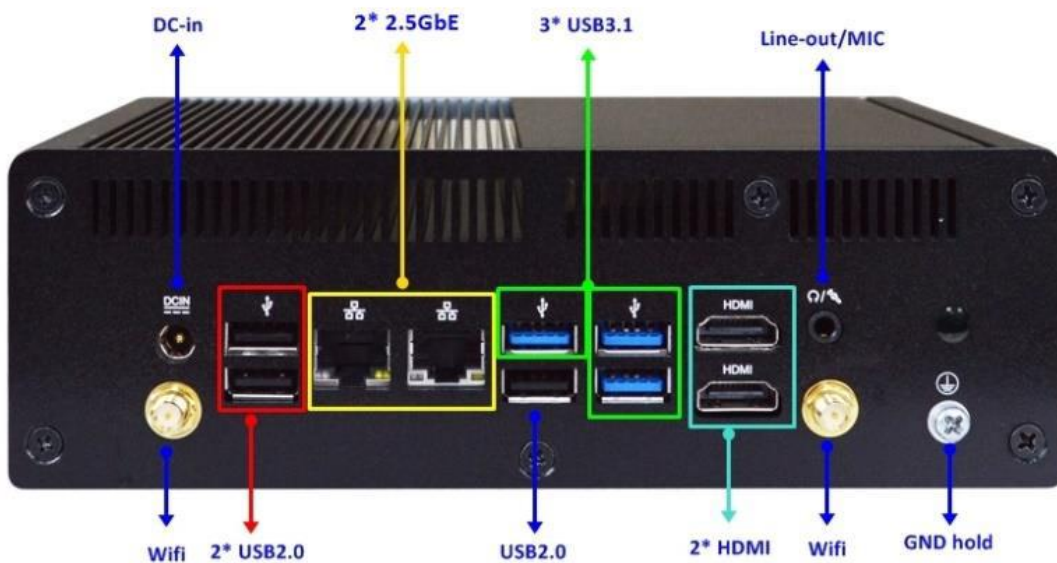
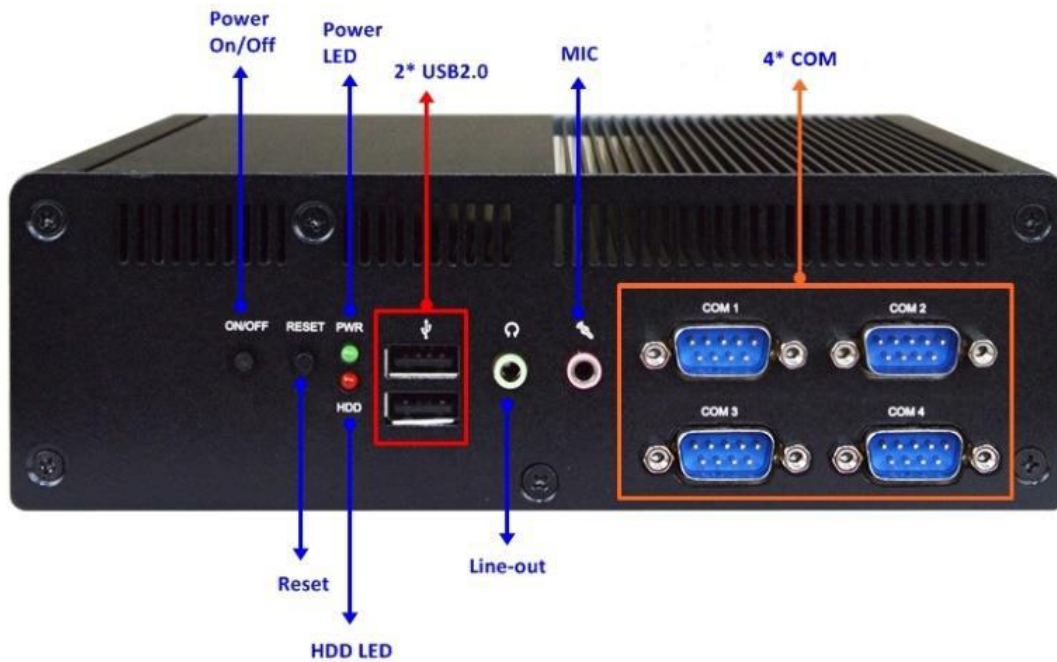




Features

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



Model	<ul style="list-style-type: none"> ■ FDF20
Part No	<ul style="list-style-type: none"> ■ HBFDF20-6412-B ■ HBFDF20-6412-T (TPM2) ■ HBFDF20-6412-Q (64GB EMMC, TPM2)
Processor	<ul style="list-style-type: none"> ■ Fanless Intel Celeron J6412 Quad-core SoC, Elkhart Lake
Memory	<ul style="list-style-type: none"> ■ 1 * 260-pin DDR4-3200 SO-DIMM up to 32GB total memory
Storage	<ul style="list-style-type: none"> ■ 1 * 2.5" internal bay for SATA3 6Gb/s (<10mm) ■ 1 * M.2 M-key SATA3 or PCIE 3.0 x2 NVME 2242/2280 ■ Optional 64GB EMMC
Network	<ul style="list-style-type: none"> ■ 2 * Intel i225/i226-V 2.5GbE ■ WIFI Model: includes M.2 WIFI+BT card ■ Non-WIFI Model: open M.2 E-key 2230 slot (USB/PCIE) ■ M.2 B-key 3042 with SIM card slot for Cellular (USB/PCIE)
Other Features	<ul style="list-style-type: none"> ■ AHCI, Watchdog Timer 10-255 min/sec., AT/ATX Power Mode, Optional TPM
Front Panel I/O	<ul style="list-style-type: none"> ■ Power, Reset, LEDs ■ 2 * USB 2.0 ports ■ Line-out jack, Mic jack ■ 4 * Serial ports (3 * RS232, 1 * RS232/422/485)
Rear Panel I/O	<ul style="list-style-type: none"> ■ 3 * USB 3.2 Gen2 ports (10Gb/s) ■ 3 * USB 2.0 ports ■ 2 * RJ45 ■ 2 * HDMI 2.0b 4K@60Hz ■ Line-out/Mic combo jack ■ 12V-24V DC-in jack ■ Antenna holes
BIOS	<ul style="list-style-type: none"> ■ AMI Flash ROM
Box Contents	<ul style="list-style-type: none"> ■ 60W 12V AC Adapter, US Power Cord, Wall Mount Brackets, Antenna (WIFI model)
Compliance	<ul style="list-style-type: none"> ■ CE, FCC, RoHS, ErP Ready
Temperature	<ul style="list-style-type: none"> ■ Operating Temperature -20 ~ 60 ° C (M.2 SSD), 0~50 ° C (2.5" drive) ■ Storage Temperature -40 - 85° C
Dimensions	<ul style="list-style-type: none"> ■ 142.4 x 193 x 62mm (DxWxH)
OS Support	<ul style="list-style-type: none"> ■ Windows 10 64bit, Windows 11 64bit, Linux
Warranty	<ul style="list-style-type: none"> ■ 2 Years limited warranty

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



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