

HBFDF13-6412-B

4 LAN Ports Fanless Network Appliance with *Intel® Elkhart Lake SoC processor*



Overview

The JETWAY MF13 Series adopts the Intel® Elkhart Lake SoC processor. The system memory features one DDR4 3200MHz SODIMM Up to 32 GB. It equipped with four 2.5 Gigabit Ethernet LAN ports and suitable for networking environment. In addition, it offers flexible expansion with network products and features one M.2 M-key (2242/2280, SATA/PCIe Gen.3x2 interface) support NVMe, one USB 3.1 Gen.2 port, three USB 2.0 port and two RS232/422/485 port. Expansion opportunities are available with one M.2 E-key (2230, USB2.0/PCIe Gen.3x1), one M.2 B-key (3042/3052, USB3.1 interface) and one SIM card holder enabling the addition of Wi-Fi, 3G, 4G, 5G LTE for multiple connectivity. In addition, an internal SATAIII connector for a 2.5" device provides storage selection. All of these designs provide for a more user-friendly solution.

Features

1. Intel® Elkhart Lake SoC Processor, Default: J6412
2. 1* 260-pin DDR4 3200MHz SODIMM Up to 32 GB
3. 2* COM (RS232/422/485), 1 * USB3.1 Gen.2, 3* Internal USB2.0
4. 4* Intel® i225V 2.5GbE
5. 1* M.2 M-key, 2242/2280 (SATA/PCIe Gen.3 x2) support NVMe,
1* M.2 E-key, 2230 (USB2.0/PCIe Gen.3 x1),
1* M.2 B-key, 3042/3052 (USB3.1),
1* SIM card slot

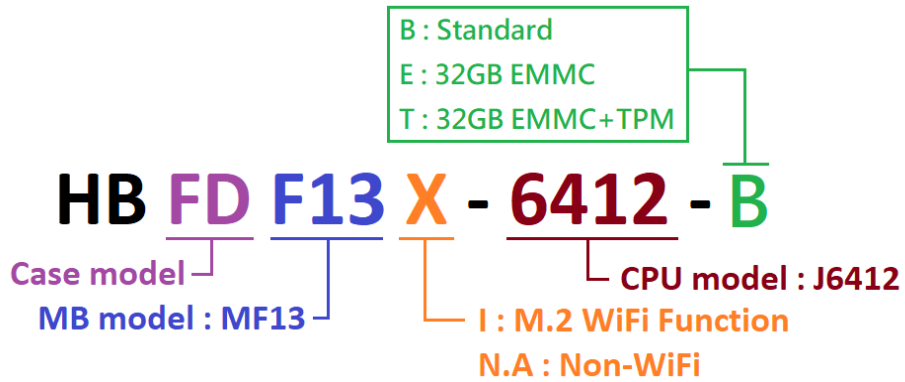
Specifications

MB Model	<ul style="list-style-type: none"> ● MF13-00 (J6412) ● MF13-03 (J6412+32GB EMMC) ● MF13-07 (J6412+32GB EMMC+TPM) 	
Part No	Non-Wifi	M.2 ac Wifi card
	<ul style="list-style-type: none"> ● HBFDF13-6412-B (Default) ● HBFDF13-6412-E (EMMC) ● HBFDF13-6412-T (EMMC+TPM) 	<ul style="list-style-type: none"> ● HBFD13I-6412-B (Default) ● HBFD13I-6412-E (EMMC) ● HBFD13I-6412-T (EMMC+TPM)
Processor	Intel® Elkhart Lake SoC Processor / Default: J6412	
Memory	<ul style="list-style-type: none"> ● 1 * SO-DIMM DDR4-3200MHz up to 32GB 	
Storage	<ul style="list-style-type: none"> ● 1 * 2.5" SATA3 6Gb/s internal drive bay (only support 2.5" HDD with a height ≤ 10mm) ● 1 * M.2 M-KEY(2242/2280,SATA/PCIe Gen.3x2)support NVME 	
Network	<ul style="list-style-type: none"> ● 4 * Intel® i225V 2.5GbE 	
Expansion slot	<ul style="list-style-type: none"> ● 1 * M.2 E-KEY(2230,USB2.0/PCIe Gen.3x1) ● 1 * M.2 B-KEY(3042/3052,USB3.1) 	
Front Panel I/O	<ul style="list-style-type: none"> ● 1 * Power button, 1 * Reset button ● 1 * Power LED, 1 * HDD LED ● 2 * USB2.0 ● 4 * NIC LED ● 1 * COM & 1 * GPIO (option) 	
Rear Panel I/O	<ul style="list-style-type: none"> ● 4 * RJ45 ● 1 * USB3.1, 1*USB2.0 ● 1 * HDMI (Reserve, Max. resolution:4096 x 2304@24Hz) ● 1 * COM (RS232/422/485) ● 1 * DC-in jack Lock type 	
Other Features	<ul style="list-style-type: none"> ● TPM2.0 (On board option) ● 32GB EMMC (On board option) ● 0~255 segments by software programmable 	
Power Source	<ul style="list-style-type: none"> ● Adapter : AC 90~240V input / DC12V-60W output ● MB : DC12V input 	
Safety	<ul style="list-style-type: none"> ● CE, FCC, LVD, RoHS 	
Temperature	<ul style="list-style-type: none"> ● Operating Temperature: -20 ~ 60° C (Under the condition of using mSATA or SSD) ● Operating Temperature: 0 ~ 60° C (Under the condition of using 2.5" SATA HDD) (The test environment is closed and windless) ● Storage Temperature: -20 ~ 70° C ● Humidity: Between 40% and 60%, non-condensing 	
Dimensions	<ul style="list-style-type: none"> ● 193 (W) x 142.4 (D) x 62 (H) mm 	
Packing	<ul style="list-style-type: none"> ● Net Weight: 2.2KG 	

	<ul style="list-style-type: none"> Gross Weight: 3.2KG Color Box dimension: 250 (W) * 118 (D) * 295 (H) mm
OS Support	Windows 11, Linux
Warranty	2 Year limited warranty

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

Part Number Rule

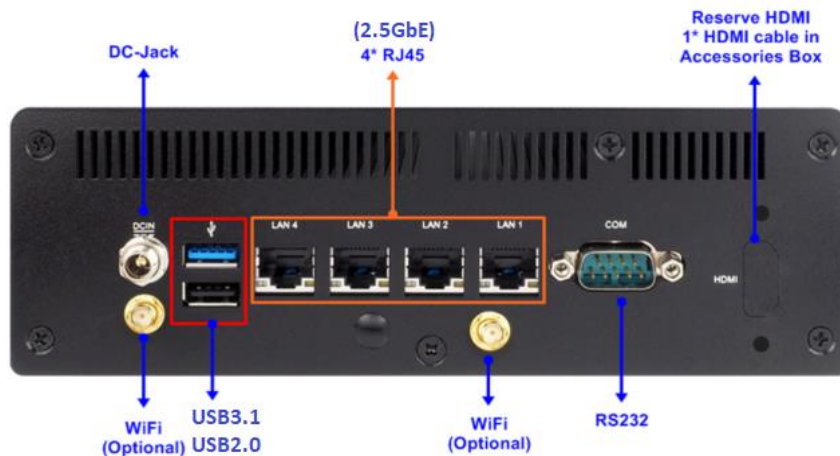


External I/O

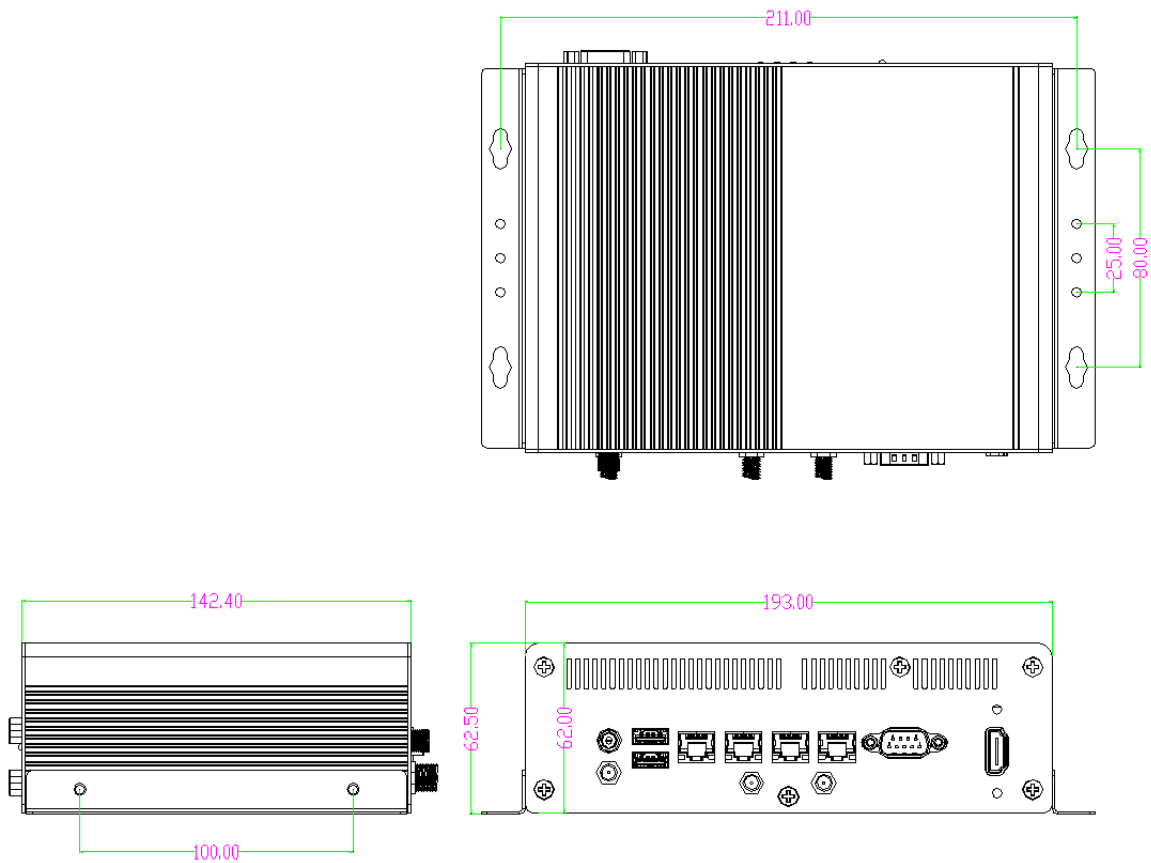
Front



Rear



Mechanical Drawings (Unit = mm)



Standard Accessories

Parts Number	Description
	HBDF13 Series
L01AS052-F	Lockable Adapter 12V/60W
Change according to shipping area	Power cord
LCSCBFDXXX-F	HBFX_Series Barebone Screw Pack
HCSFDMWM01B-F	FD Series Wall mount
HNSCOMWFAWCB161HF	Mini PCIe ac Wifi card (Wifi model only)
J05-ANT-GX57245-F	Antenna2G4/5G 2.8dBi GX572450001SM (Wifi model only)
G01-COM-H2M20-1F	COM Cable
G01-2X10A-HDMI-1F	HDMI Cable