

HBFBU03 Series

Fanless Embedded System

Intel® Elkhart Lake SoC Processor, DDR4 3200MHz up to 16GB

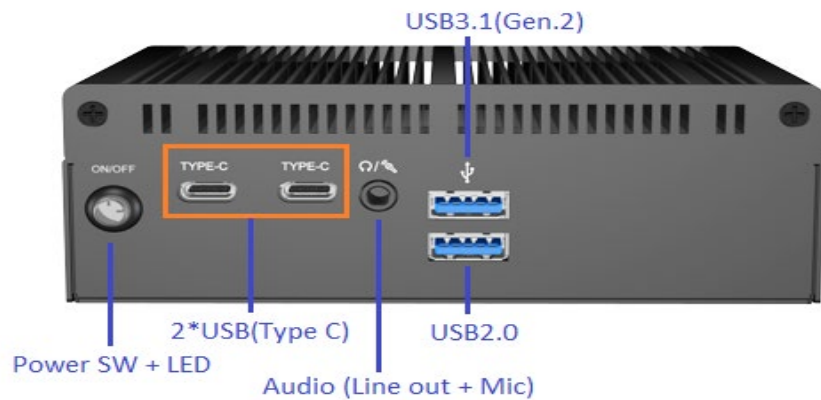
Features

1. Intel Elkhart Lake SoC Processor
2. 1* DDR4 3200MHz SO-DIMM up to 16GB
3. 2* HDMI, 1* DP
4. 2*USB3.1(Gen.2),1*USB2.0,2*USB TypeC,2*RJ45,1* Audio (MIC + Line-out)
5. M/B Form Factor: NUC (101x101mm)
6. DC12V_40W Adapter

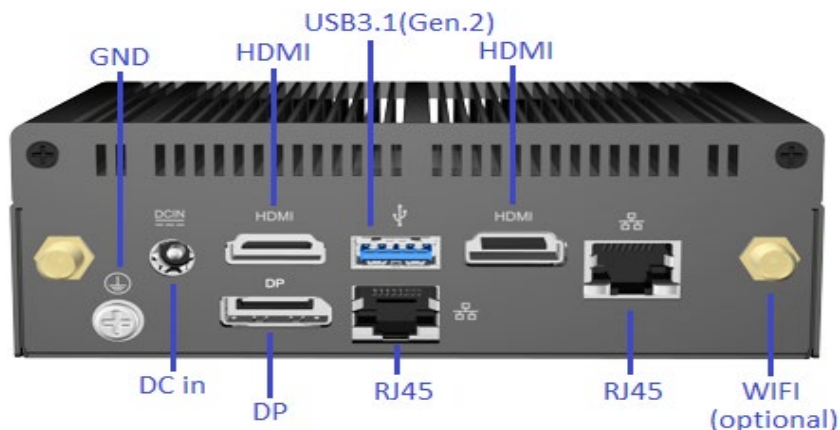


intel. FC CE RoHS COMPLIANT

Front I/O



Rear I/O



Specifications

Model

- HBFBU03-6412-B
- HBFBU03I-6412-B
- HBFBU03-6412-T (TPM)
- HBFBU03I-6412-T (TPM)

BIOS

- AMI Flash ROM

Network

- 2* Intel i255V 2.5GbE

Storage

- 1* 2.5" SATA Device
- 1* M.2 M-key (2260/2280, PCIe Gen.3 x2/SATA interface) support NVME

Rear Panel I/O

- 2* RJ45
- 1* DP
- 1* DC-in
- 2* HDMI
- 1* USB3.1(Gen.2)

Internal Connector

- 32GB eMMC onboard

Compliance

- CE, FCC, LVD, RoHS, ErP Ready

Temperature

- Operating Temperature: -20 ~ 60° C
(Under the condition of using M.2 interface SSD)
- Operating Temperature: 0 ~ 50° C
(Under the condition of using 2.5" SATA HDD
(The test environment is closed and windless)
- Storage Temperature: -20 ~ 60° C
- Humidity: 10% ~ 90% RH @40°C (non-condensing)

OS Support

- Windows 11, Linux

Warranty

- 2 Years limited warranty

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

CPU / Chipset

- Intel® Elkhart Lake SoC Processor (J6412)

Memory

- 1* DDR4 3200MHz Dual Channel SO-DIMM up to 16GB

Graphics

- Intel® HD Graphics, shared memory
- 1* DP (Max Resolution: 4096x2160@60Hz)
- 2* HDMI 2.0 (Max Resolution: 4096x2160@60Hz)
- Support Triple Displays

Expansion

- 1* M.2 E-key (2230, PCIe Gen.3 x1/USB2.0 interface) support CNVi

Front Panel I/O

- 1* Power button + Power LED
- 2* USB(TypeC)
- 1* Audio(Line out+MIC)
- 1* USB2.0
- 1* USB3.1(Gen.2)

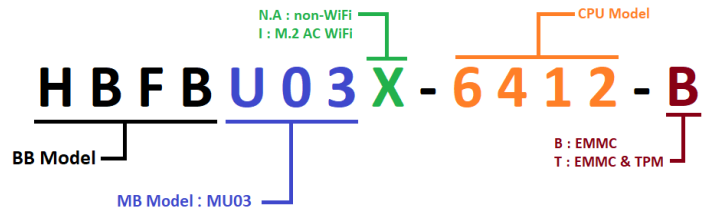
Power Source

- Adapter : AC 90~240V input / DC12V_40W output
- MB : DC12V input

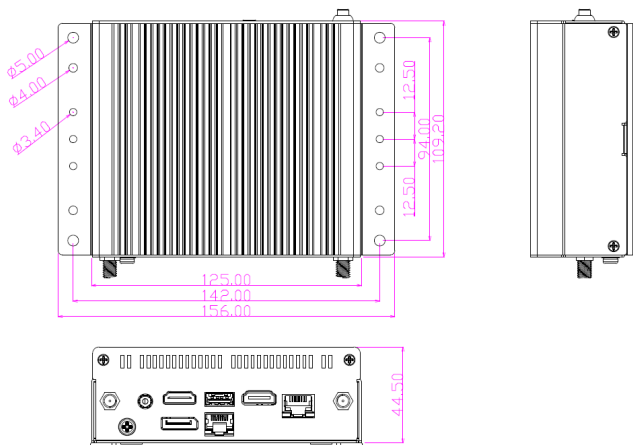
Dimensions

- System: 125 (W) x 109.2 (D) x 44.5 (H) mm

Part Number Rules



Mechanical Drawings (Unit=mm)



Ordering Info

Part Number	Description
-----	HBFBU03 series
HCS310MWM01B-2F	JC3XX/4XX Wall+VESA mount
L01AS050-F	Adapter DC12V_40W
-----	Power cord (Change according to shipping area)
LCSCHBJC3XX-F	JBC3XX Barebone Screw Pack
J05-ANT-GX57245-F	Antenna 2G4/5G 2.8dBi GX572450001SM (Wifi only)
HCS3XXDINRAILPS-F	Din Rail Clip