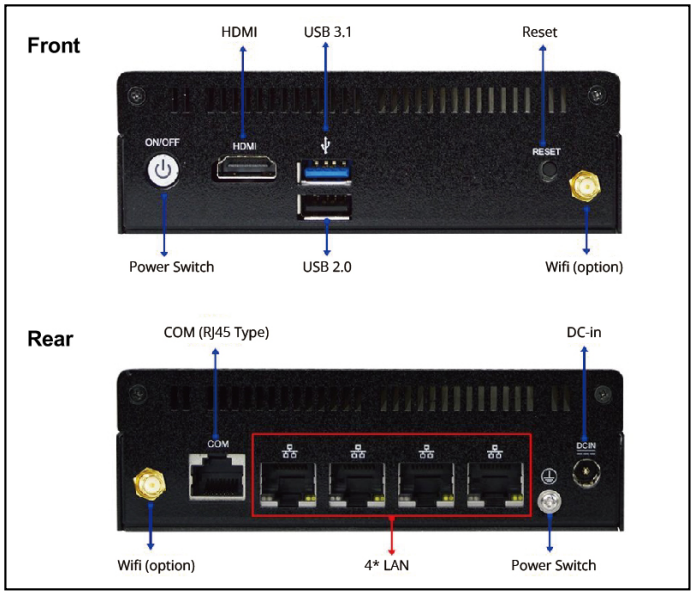
HBFBZ10

Compact Fanless System with Intel® Celeron® J6412 and Quad 2.5GbE LAN



Features

- **Powered by Intel® J6412 SoC Processor for Efficient Performance (Elkhart Lake)**
- **High-Speed Networking: 4 x 2.5GbE for Robust and Reliable Connections**
- **Flexible Memory Support: 1 x DDR4 3200MHz SODIMM, Expandable up to 32GB**
- **Comprehensive I/O: 2 x USB 3.1, 1 x HDMI®, and 1 x COM (RJ45 type)**
- **Storage & Expansion: 1 x M.2 M-Key 2242, 1 x M.2 E-Key 2230, and 1 x M.2 B-Key 3042**
- **Enhanced Security: Supports optional TPM 2.0 for Emproved Data Protection**
- **Compact Fanless Design: Space-saving Design with Wall-mount Compatibility**

Packing List

PART NUMBER	DESCRIPTION	QTY
HBFBZ10 series	Intel Elkhart Lake SoC Processor J6412 CPU	1
LCSCHBJC3XX-F	Barebone Screw Pack	1
L01AS050-F	Adapter DC12V_40W	1
Change according to shipping area	Power Cord	1
HCSFBMWM01B-F	FB Wall Mount	1
J05-ANT-GX57245-F	Antenna 2G4/5G 2.8dBi GX572450001SM (Wifi Series only)	1

Specifications

SYSTEM	
MB FORM FACTOR	Others
CPU	Onboard Intel® Celeron® Processor J6412 (Formerly Elkhart Lake, TDP 10W)
CHIPSET	Intel® SoC
MEMORY	1 x DDR4 3200MT/s, Single Channel SO-DIMM, up to 32GB
BIOS	AMI Flash ROM
WATCHDOG TIMER	255 Levels
SECURITY	TPM2.0 (Optional)
OS SUPPORT	Windows® 11 (64bit) Windows® 10 (64bit) Linux
POWER	
POWER REQUIREMENT	DC-in 12V
POWER ON MODE	AT / ATX
DISPLAY	
GPU	Intel® HD Graphics
HDMI®	1 x HDMI® 2.0 (Max Resolution: 4096 x 2160@60Hz)
LAN	
ETHERNET	4 x RJ45 for Intel® I226-V 2.5GbE
SYSTEM I/O	
REAR PANEL I/O	4 x RJ45 1 x COM (RJ45 Type) 1 x DC-in Jack (12V) 1 x GND Hold 1 x WIFI Antenna Hole
FRONT PANEL I/O	1 x Power Button 1 x Power LED 1 x Reset Button 1 x USB 3.1 1 x USB 2.0 1 x HDMI® 1 x WIFI Antenna Hole
STORAGE	
eMMC	Onboard 64GB eMMC 5.1 (optional)
EXPANSION	
M.2	1 x M-key 2242 (PCIe Gen.3 x2/SATA interface) support NVME, (co-layout M.2 B-key) 1 x E-Key 2230 (USB 2.0/PCIe 3.0 x1) 1 x B-key 3042/3052 (USB3.1 interface) co-layout M.2 M-key
SIM	1 x SIM Card Slot
MECHANICAL	
MOUNTING	Wall Mount
DIMENSIONS (W x D x H)	125.0 (W) x 109.2 (D) x 39.5 (H) mm
ENVIRONMENT & CERTIFICATION	
SHOCK	15G, 11ms duration
VIBRATION	1 Grms/ 5~ 500Hz/ Operation
OPERATING TEMPERATURE	-20°C ~ 60°C (-4°F ~ 140°F)
STORAGE TEMPERATURE	-40°C ~ 85°C (-40°F ~ 185°F)
OPERATING HUMIDITY	10 ~ 95% @ 40°C, Non-condensing
STORAGE HUMIDITY	0 ~ 95% Relative Humidity, Non-condensing
CERTIFICATION	CE/FCC Class A LVD
ESG DECLARATION	EU RoHS China RoHS ErP

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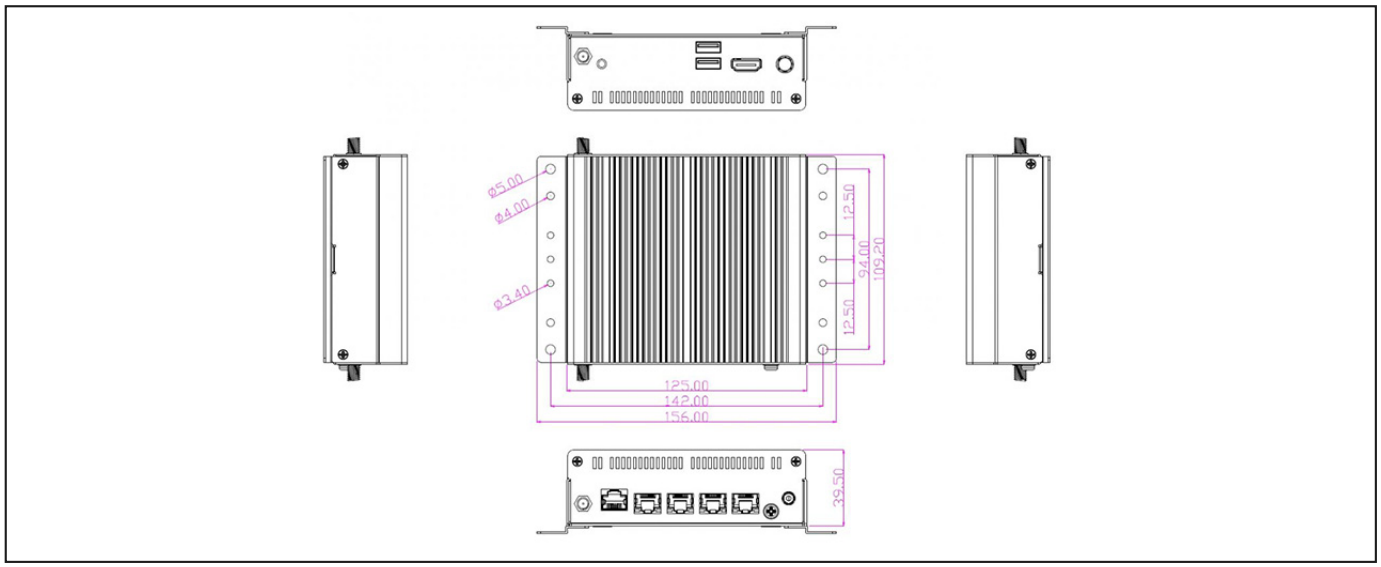
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Note: All specifications are subject to change without notice.

Dimension

Unit: mm



Ordering Information

PART NUMBER	HBFBZ10-6412-B	HBFBZ10I-6412-B-A1	HBFBZ10-6412-E-A1	HBFBZ10I-6412-E-A1	HBFBZ10-6412-T-A1	HBFBZ10I-6412-T-A1
CPU	Intel® Celeron® J6412	Intel® Celeron® J6412	Intel® Celeron® J6412	Intel® Celeron® J6412	Intel® Celeron® J6412	Intel® Celeron® J6412
SECURITY					TPM2.0	TPM2.0
POWER REQUIREMENT	DC-in 12V	DC-in 12V	DC-in 12V	DC-in 12V	DC-in 12V	DC-in 12V
GPU	Intel® HD Graphics, shared memory	Intel® HD Graphics, shared memory	Intel® HD Graphics, shared memory	Intel® HD Graphics, shared memory	Intel® HD Graphics, shared memory	Intel® HD Graphics, shared memory
HDMI	1 x HDMI®	1 x HDMI®	1 x HDMI®	1 x HDMI®	1 x HDMI®	1 x HDMI®
ETHERNET	4 x 2.5GbE	4 x 2.5GbE	4 x 2.5GbE	4 x 2.5GbE	4 x 2.5GbE	4 x 2.5GbE
I/O	1 x USB 3.1	1 x USB 3.1	1 x USB 3.1	1 x USB 3.1	1 x USB 3.1	1 x USB 3.1
I/O	1 x USB 2.0	1 x USB 2.0	1 x USB 2.0	1 x USB 2.0	1 x USB 2.0	1 x USB 2.0
I/O	1 x COM (RJ45 Type)	1 x COM (RJ45 Type)	1 x COM (RJ45 Type)	1 x COM (RJ45 Type)	1 x COM (RJ45 Type)	1 x COM (RJ45 Type)
I/O	1 x DC Jack	1 x DC Jack	1 x DC Jack	1 x DC Jack	1 x DC Jack	1 x DC Jack
I/O	1 x Power Button + Power LED	1 x Power Button + Power LED	1 x Power Button + Power LED	1 x Power Button + Power LED	1 x Power Button + Power LED	1 x Power Button + Power LED
I/O	1 x Reset	1 x Reset	1 x Reset	1 x Reset	1 x Reset	1 x Reset
I/O	2 x SMA	2 x SMA	2 x SMA	2 x SMA	2 x SMA	2 x SMA
I/O	1 x GND Hold	1 x GND Hold	1 x GND Hold	1 x GND Hold	1 x GND Hold	1 x GND Hold
eMMC			eMMC 64GB	eMMC 64GB	eMMC 64GB	eMMC 64GB
M.2	1 x M-Key 2242	1 x M-Key 2242	1 x M-Key 2242	1 x M-Key 2242	1 x M-Key 2242	1 x M-Key 2242
M.2	1 x E-Key 2230	1 x E-Key 2230	1 x E-Key 2230	1 x E-Key 2230	1 x E-Key 2230	1 x E-Key 2230
M.2	1 x B-Key 3042/3052	1 x B-Key 3042/3052	1 x B-Key 3042/3052	1 x B-Key 3042/3052	1 x B-Key 3042/3052	1 x B-Key 3042/3052
OTHER		WiFi		WiFi		WiFi
OPERATING TEMPERATURE	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)

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