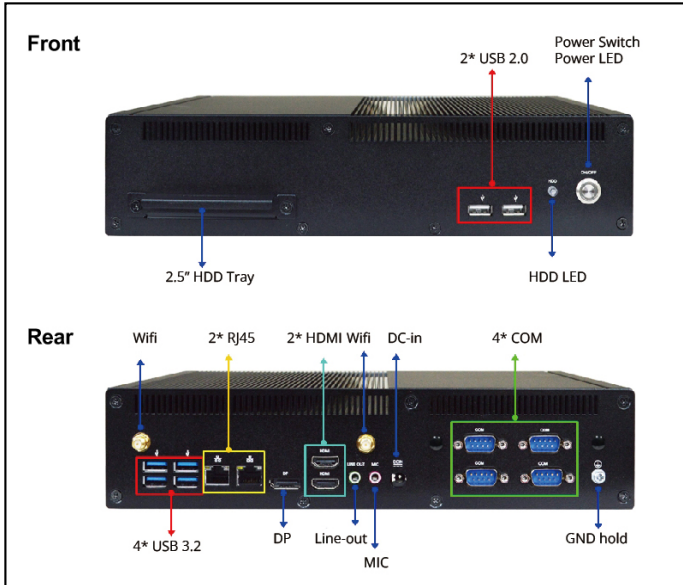


HBFFI02-Q470-B



Mini-ITX

Fanless Barebone with Intel® LGA1200 10th/11th Gen Socket Processor



Features

- **Intel® LGA1200 Socket:** Supports 10th/11th Gen Pentium, Core i3/i5/i7 processors, up to 35W
- **4K Resolution Display:** Dual HDMI and 1 DP output
- **Comprehensive I/O:** 4 USB 3.2, 2 USB 2.0, 2 RJ45, 4 COM ports, and a 2.5" HDD tray
- **Enhanced Expansion:** Includes M.2 M-Key, M.2 E-Key, and M.2 B-Key with SIM card slot
- **Wide Power Input:** DC-in 12–28V for diverse installation needs
- **Flexible Installation:** Supports wall mount and DIN rail clip for space-saving setups

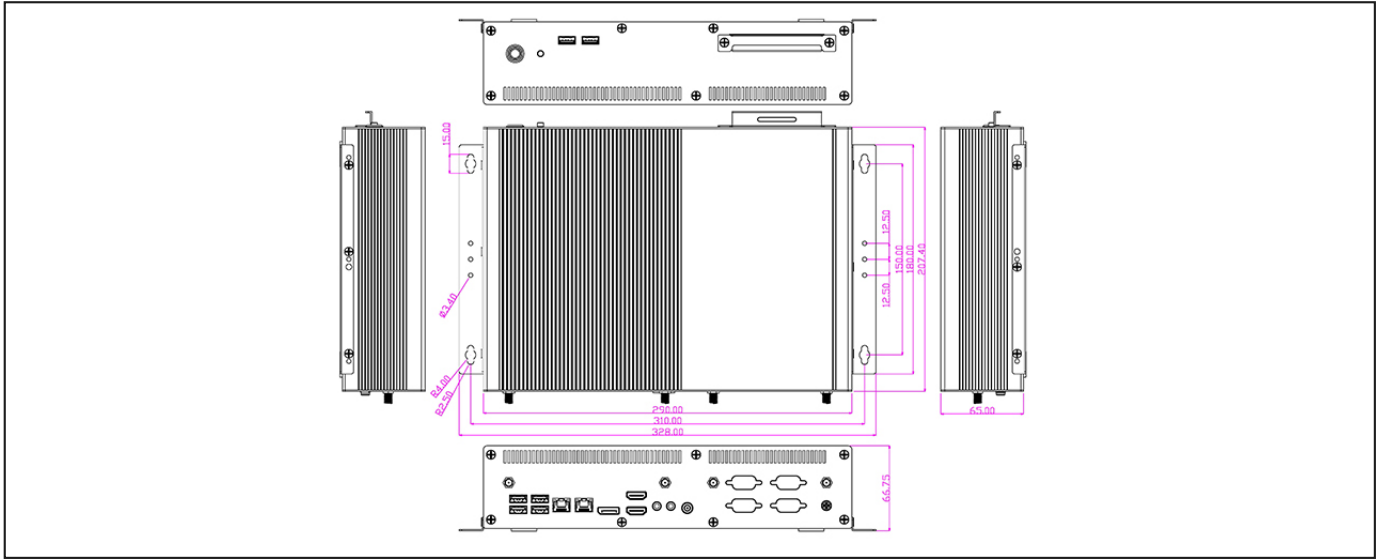
Packing List

PART NUMBER	DESCRIPTION	QTY
HBFFI02 Series	HBFFI02 Series	1
L01AS056-F	Adapter DC19V/6.32A 120W	1
Change according to shipping area	Power cord	1
HCS5XXMWM01B-1F	Wall mount / Black color	1
LCSCHBFDXXX-F	Screw Pack	1
J05-ANT-GX57245-F	Antenna2G4/5G 2.8dBi GX572450001SM (Wifi only)	1
HCS3XXDINRAILPS-F	Din Rail Clip	1

Specifications

SYSTEM	
MB FORM FACTOR	Performance
CPU	Intel® LGA1200 10/11th Gen Socket Processor (Formerly Comet Lake-S, TDP 35W)
CHIPSET	Intel® Q470E
MEMORY	2 x DDR4 2933/2666/2400MHz, Dual Channel SO-DIMM, up to 64GB
BIOS	AMI Flash ROM
SECURITY	TPM2.0 (Optional)
OS SUPPORT	Windows® 11 (64bit) Windows® 10 (64bit) Linux
POWER	
POWER REQUIREMENT	DC-in 12-28V 120W Adapter: AC110-240V, DC19V/6.32A
DISPLAY	
DP	1 x DP1.4a (Max Resolution: 4096 x 2304@60Hz)
HDMI	2 x HDMI (Max Resolution: 4096 x 2160@30Hz)
LAN	
ETHERNET	1 x RJ45 for Intel® I219-LM GbE 1 x RJ45 for Intel® I226-LM 2.5GbE
SYSTEM I/O	
REAR PANEL I/O	4 x USB 3.2 Gen.1 2 x HDMI 1 x DP 2 x RJ45 1 x Line-out 1 x MIC-in 4 x COM 1 x DC-in 1 x GND Hold 2 x WIFI Antenna Holes
FRONT PANEL I/O	1 x Power Button 1 x Power LED 1 x HDD LED 2 x USB 2.0 1 x 2.5" HDD Tray
STORAGE	
SATA	1 x 2.5" SATA 6Gb/s internal drive bay (only Support 2.5" HDD with a height < 10mm)
EXPANSION	
M.2	1 x M-key 2280 (SATA/PCle4) support NVMe 1 x E-Key 2230 (USB 2.0/PCle x1) Support CNVi 1 x B-key 3042/3052 (USB3.0/USB2.0/PCle x1) W/SIM card holder
MECHANICAL	
MOUNTING	Wall Mount, DIN Rail Clip
DIMENSIONS (W x H x D)	290.0 (W) x 207.0 (D) x 65.0 (H) mm
GROSS WEIGHT	4.8 kg
NET WEIGHT	3.8 kg
ENVIRONMENT & CERTIFICATION	
SHOCK	15G, 11ms duration
VIBRATION	1 Grms/ 5- 500Hz/ Operation
OPERATING TEMPERATURE	-20°C - 50°C (-4°F - 122°F)
STORAGE TEMPERATURE	-40°C - 85°C (-40°F - 185°F)
OPERATING HUMIDITY	10 - 95% @ 40°C, Non-condensing
CERTIFICATION	CE/FCC Class A LVD
ESG DECLARATION	EU RoHS China RoHS ErP

Dimension Unit: mm



Ordering Information

PART NUMBER	HBFFI02-Q470-B-A1	HBFFI02I-Q470-B	HBFFI02-Q470-T-A1	HBFFI02I-Q470-T-A1
CPU	Intel® Socket LGA1200 CPU	Intel® Socket LGA1200 CPU	Intel® Socket LGA1200 CPU	Intel® Socket LGA1200 CPU
SECURITY			TPM2.0	TPM2.0
POWER REQUIREMENT	DC-in 12-28V	DC-in 12-28V	DC-in 12-28V	DC-in 12-28V
DP	1 x DP	1 x DP	1 x DP	1 x DP
HDMI	2 x HDMI	2 x HDMI	2 x HDMI	2 x HDMI
ETHERNET	1 x GbE	1 x GbE	1 x GbE	1 x GbE
ETHERNET	1 x 2.5GbE	1 x 2.5GbE	1 x 2.5GbE	1 x 2.5GbE
I/O	4 x COM	4 x COM	4 x COM	4 x COM
I/O	4 x USB 3.2	4 x USB 3.2	4 x USB 3.2	4 x USB 3.2
I/O	2 x USB 2.0	2 x USB 2.0	2 x USB 2.0	2 x USB 2.0
I/O	1 x Line-out	1 x Line-out	1 x Line-out	1 x Line-out
I/O	1 x MIC-in	1 x MIC-in	1 x MIC-in	1 x MIC-in
I/O	1 x DC Jack	1 x DC Jack	1 x DC Jack	1 x DC Jack
I/O	2 x HDMI	2 x HDMI	2 x HDMI	2 x HDMI
I/O	1 x DP	1 x DP	1 x DP	1 x DP
I/O	2 x RJ45	2 x RJ45	2 x RJ45	2 x RJ45
I/O	1 x Power Button	1 x Power Button	1 x Power Button	1 x Power Button
I/O	1 x Power LED	1 x Power LED	1 x Power LED	1 x Power LED
I/O	1 x HDD LED	1 x HDD LED	1 x HDD LED	1 x HDD LED
I/O	2.5" HDD Tray	2.5" HDD Tray	2.5" HDD Tray	2.5" HDD Tray
SATA	1 x SATA III	1 x SATA III	1 x SATA III	1 x SATA III
M.2	1 x M-Key 2280	1 x M-Key 2280	1 x M-Key 2280	1 x M-Key 2280
M.2	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
OTHER		Wifi		Wifi
OPERATING TEMPERATURE	-20°C - 50°C (-4°F - 122°F)	-20°C - 50°C (-4°F - 122°F)	-20°C - 50°C (-4°F - 122°F)	-20°C - 50°C (-4°F - 122°F)