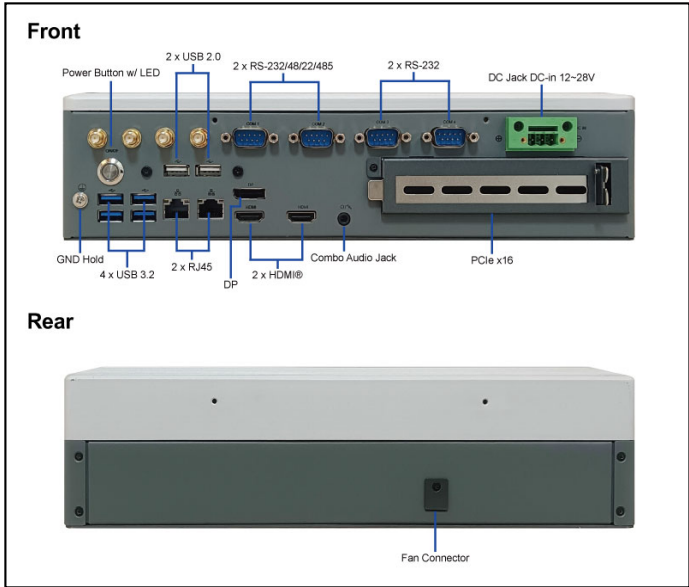


Fanless Mini-ITX Barebone, Supports Intel® 10/11th Gen 65W Processors, H420E, DDR4, PCIe x16, DC 12~28V



Features

- Intel® LGA1200 Socket Core i3,i5,i7 Pentium Processor (Max 65W)
- Intel® H420E Chip
- Support DDR4 2933/2666 up to 64GB
- 1 x Intel® i219LM GbE, 1 x Intel® I226-V 2.5GbE
- Support 1 x SATAIII Drive Bay
- 1 x M.2 B key (3042/3052, Support 4G/5G), 1 x M.2 E key (2230, Support WIFI/BT)
- 2 x RS232/422/485, 2 x RS232 Ports

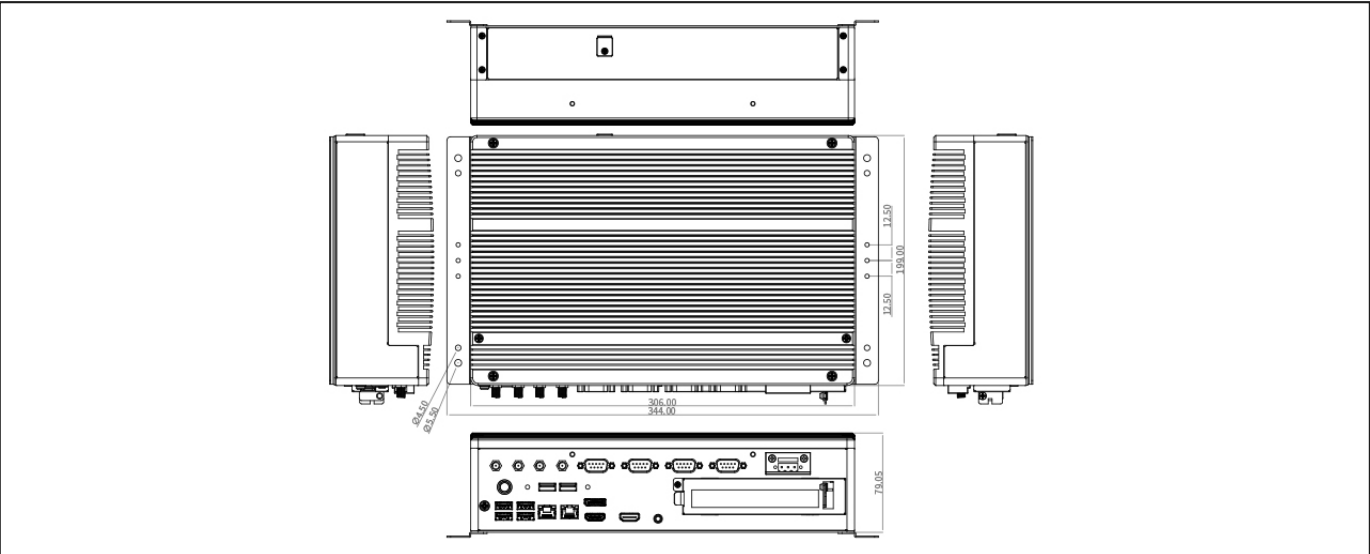
Packing List

PART NUMBER	DESCRIPTION	QTY
-	HB651I21-H420-B	1
-	Power cord	1
L01AS056-F	Adapter 19V/6.32A 120W FSP120-ABBN5 Phoenix Terminals	1
HCS650MWM01B-F	WALL MOUNT KITS	1
LCSCBFDXXX-F	Screw Pack	1
LCSCBJC3XX-F	Screw Pack	1
HCFAN65X-DC1225	DC1225 FAN Expansion module (Option)	1

Specifications

SYSTEM	
MB FORM FACTOR	Mini-ITX
CPU	Intel® LGA1200 10/11th Gen Socket Processor (Formerly Comet Lake-S, TDP 65W)
CHIPSET	Intel® H420E
MEMORY	2 x DDR4 2933/2666MT/s SO-DIMM DRAM, up to 64GB
BIOS	AMI Flash ROM
WAKE ON LAN	Yes
WATCHDOG TIMER	255 Levels
SECURITY	Intel® PTT (Integrated fTPM)
RTC BATTERY	Lithium Battery
OS SUPPORT	Windows® 10 (64bit) Windows® 11 (64bit) Linux
POWER	
POWER REQUIREMENT	DC-in 12-28V
POWER ON MODE	AT / ATX
DISPLAY	
GPU	Intel® UHD Graphics
DP	1 x DP1.4 (Max Resolution: 5120 x 3200@60Hz)
HDMI®	2 x HDMI® 1.4 (Max Resolution: 4096 x 2160@30Hz)
MULTIPLE DISPLAY	Support 2 Displays
AUDIO	
CODEC	Realtek ALC888S
LAN	
ETHERNET	1 x RJ45 for Intel® I226-V 2.5GbE 1 x RJ45 for Intel® I219-LM GbE
SYSTEM I/O	
REAR PANEL I/O	2 x RS-232/422/485 2 x RS-232 1 x Audio (Line out, MIC Combo) 1 x Phoenix Terminal Block 12-28V DC input 4 x Antenna Holes 4 x USB 3.2 Gen 1 2 x USB 2.0 1 x Power Button 1 x Power LED
FRONT PANEL I/O	1 x FAN link con
STORAGE	
SATA	1 x 2.5" SATA Device (support 2.5" HDD with a height ≤ 10mm)
EXPANSION	
M.2	1 x M-Key 2280 (PCIe x4) support NVMe 1 x E-Key 2230 (USB 2.0/PCIe x1) support CNVio 1 x B-Key 3042/3052 (USB 3.2/USB 2.0) for 4G/5G Module
PCIe	1 x PCIe x16 PCI Express x16 is recommended for IO control card expansion. High-power cards in a fanless case may affect performance, so they aren't recommended
SIM	1 x SIM Card Slot
MECHANICAL	
DIMENSIONS (W x D x H)	306.0 (W) x 199.0 (D) x 79.0 (H) mm
ENVIRONMENT & CERTIFICATION	
SHOCK	15G, 11ms duration
VIBRATION	1 Grms/ 5~ 500Hz/ Operation
OPERATING TEMPERATURE	-10°C ~ 60°C (14°F ~ 140°F)
STORAGE TEMPERATURE	-20°C ~ 70°C (-4°F ~ 158°F)
OPERATING HUMIDITY	10 ~ 95% @ 40°C, Non-condensing
CERTIFICATION	CE/FCC Class A
ESG DECLARATION	ErP EU RoHS

Dimension Unit: mm



Ordering Information

PART NUMBER	HB651I21-H420-B
CPU	Intel® Socket LGA1200 CPU
MEMORY	2 x DDR4 SO-DIMM, up to 64GB
SECURITY	Intel® PTT (fTPM)
POWER REQUIREMENT	DC-in 12-28V
GPU	Intel® UHD Graphics
DP	1 x DP
HDMI	2 x HDMI®
MULTIPLE DISPLAY	Support 2 Displays
ETHERNET	1 x 2.5GbE
ETHERNET	1 x GbE
I/O	4 x USB 3.2 Gen 1
I/O	2 x USB 2.0
I/O	2 x RS-232/422/485
I/O	2 x RS-232
I/O	1 x DC Jack
I/O	4 x WIFI ANT
I/O	1 x FAN link con
I/O	1 x Audio (Line-out, MIC Combo)
I/O	1 x Power LED
I/O	1 x Power button
SATA	1 x 2.5" SATA III Bay
M.2	1 x M-Key 2280
M.2	1 x E-Key 2230
M.2	1 x B-Key 3042/3052
OPERATING TEMPERATURE	-10°C ~ 60°C (14°F ~ 140°F)