B420PADN1

Fanless Compact Box PC with Intel® N-series SoC Processors

Front

- 2* COM
- 2* USB 2.0
- COM
- COM
- ON/OFF
- Power Button w/ LED

Rear

- 2* USB 3.2 Gen 2
- HDMI
- Lockable DC-in
- HDMI
- DCIN
- Wifi
- RJ45
- GND Hold
- Wifi
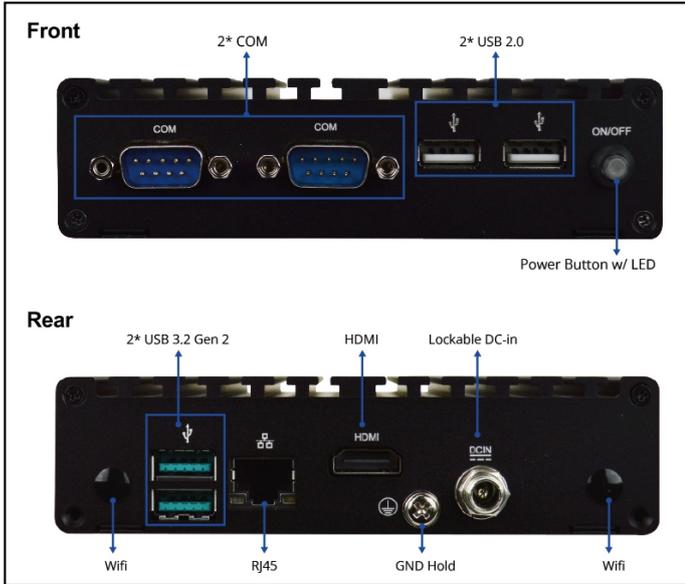
Features

- ■ **Powered by Intel® N97/N200 SoC Processors (formerly Alder Lake)**
- ■ **High-Performance Memory: Supports DDR5 SO-DIMM**
- ■ **4K Display: Supports HDMI 2.0b (4096x2160@60Hz) for high-resolution output**
- ■ **Storage & Expansion: 1 x M.2 E-Key, 1 x B+M Key paired with 1 x Nano SIM Slot**
- ■ **Comprehensive I/O: 2 x USB 3.2 Gen2, 2 x USB 2.0, 2 x RS-232/422/485**
- ■ **Enhanced Security: Supports Intel fTPM**
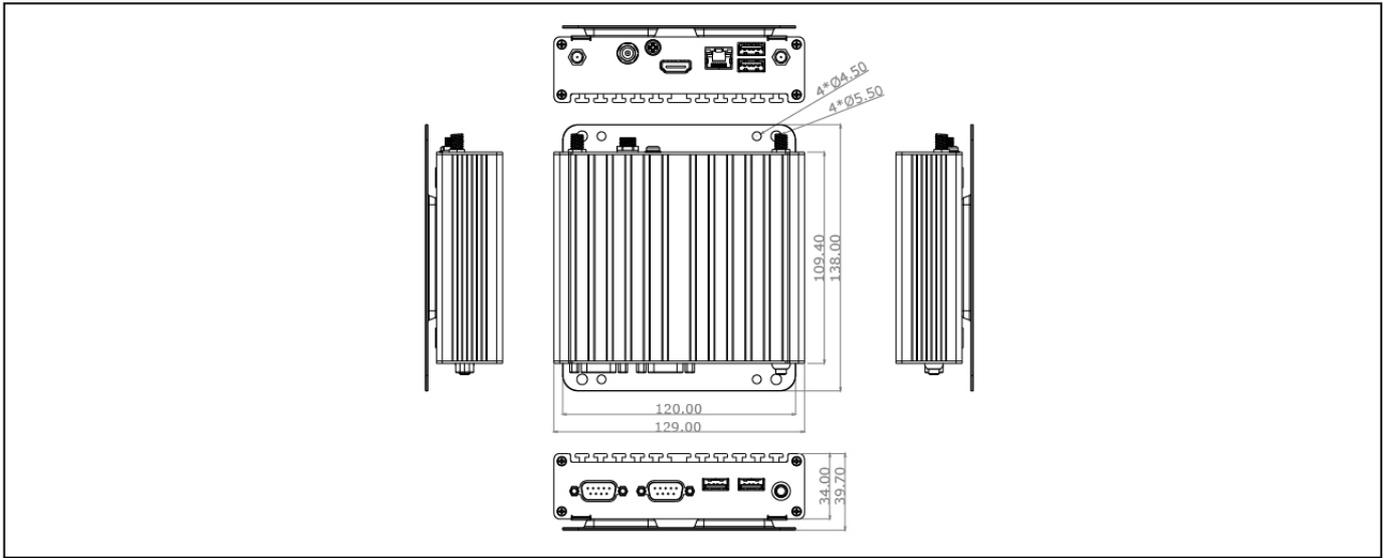- ■ **Pre-installed with one DDR5 4800MHz, Single Channel SO-DIMM, 8GB Memory**

Packing List

PART NUMBER	DESCRIPTION	QTY
B420PADN1	B420ADN1 Barebone	1
HCS310MWM01B-2F	Wall+VESA mount Kit	1
LCSCHBJC3XX-F	Screw Pack	1
L01AS051-F	Lockable Adapter 12V/3.3A 40W	1
Change according to shipping area	Power Cord (Region Specific)	1
HNSSOD8DR58GID-F	(Memory pre-installed on board for A111 & A211) Innodisk DDR5 5600MHz, Single Channel SO-DIMM, 8GB (M5S0-8GSYZCZQ)	1
HNSSOD9DR516ID-F	(Memory pre-installed on board for A311 & A411) Innodisk DDR5 5600MHz, Single Channel SO-DIMM, 16GB (M5S0-AGS2NCZQ)	1

Specifications

SYSTEM

MB FORM FACTOR	Pico-ITX
CPU	Onboard Intel® Processor N97 (Formerly Alder Lake-N, TDP 12W) Onboard Intel® Processor N200 (Formerly Alder Lake-N, TDP 6W)
CHIPSET	Intel® SoC
MEMORY	1 x DDR5 4800MHz, Single Channel SO-DIMM, up to 32GB
BIOS	UEFI
WAKE ON LAN	Yes
WATCHDOG TIMER	255 Levels
SECURITY	Intel® PTT (Integrated fTPM)
RTC BATTERY	Lithium Battery
OS SUPPORT	Windows® 11 (64bit) Windows® 10 (64bit) Linux

POWER

POWER REQUIREMENT	DC-in 12V 40W Adapter: AC90~240V, DC12V/3.3A
POWER ON MODE	AT / ATX (Default) Mode

DISPLAY

GPU	Intel® UHD Graphics
HDMI	1 x HDMI 2.0b (Max Resolution: 4096 x 2160@60Hz)

AUDIO

CODEC	Realtek Audio Codec

LAN

ETHERNET	1 x RJ45 for Realtek® RTL8111H GbE

SYSTEM I/O

REAR PANEL I/O	2 x USB 3.2 Gen.1 1 x RJ45 1 x HDMI 1 x DC-in (Lockable) 2 x WIFI Antenna Holes 1 x GND Hold
FRONT PANEL I/O	2 x RS-232/422/485 2 x USB 2.0 1 x Power Button + Power LED

EXPANSION

M.2	1 x B+M-Key 2242/3042/3052 (USB 3.2/SATA III/PCIe 3.0 x2) 1 x E-Key 2230 (USB 2.0/PCIe 3.0 x1)
SIM	1 x Nano SIM Card Slot

MECHANICAL

MOUNTING	Wall + VESA mount
DIMENSIONS (W x D x H)	129.0 (W) x 109.4 (D) x 34.0 (H) mm
NET WEIGHT	0.56 KG

ENVIRONMENT & CERTIFICATION

OPERATING TEMPERATURE	-20°C ~ 50°C (-4°F ~ 122°F)
STORAGE TEMPERATURE	-40°C ~ 85°C (-40°F ~ 185°F)
OPERATING HUMIDITY	10 ~ 90% Relative Humidity, Non-condensing
CERTIFICATION	CE/FCC Class A LVD
ESG DECLARATION	China RoHS CMRT Report TSCA Declaration WEEE REACH

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Note: All specifications are subject to change without notice.

B420PADN1

Dimension   Unit: mm

Ordering Information

PART NUMBER	B420PADN1-A111	B420PADN1-A211	B420PADN1-A311	B420PADN1-A411
CPU	Intel® Processor N97	Intel® Processor N200	Intel® Processor N97	Intel® Processor N200
MEMORY	Install with 1 x DDR5 SO-DIMM, 8GB	Install with 1 x DDR5 SO-DIMM, 8GB	Install with 1 x DDR5 SO-DIMM, 16GB	Install with 1 x DDR5 SO-DIMM, 16GB
SECURITY	Intel® PTT (fTPM)	Intel® PTT (fTPM)	Intel® PTT (fTPM)	Intel® PTT (fTPM)
POWER REQUIREMENT	DC-in 12V	DC-in 12V	DC-in 12V	DC-in 12V
GPU	Intel® UHD Graphics	Intel® UHD Graphics	Intel® UHD Graphics	Intel® UHD Graphics
HDMI	1 x HDMI	1 x HDMI	1 x HDMI	1 x HDMI
MULTIPLE DISPLAY	Single Display	Single Display	Single Display	Single Display
ETHERNET	1 x 2.5GbE	1 x 2.5GbE	1 x 2.5GbE	1 x 2.5GbE
I/O	2 x USB 3.2 Gen 1	2 x USB 3.2 Gen 1	2 x USB 3.2 Gen 1	2 x USB 3.2 Gen 1
I/O	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45
I/O	1 x HDMI	1 x HDMI	1 x HDMI	1 x HDMI
I/O	1 x DC-in (Lockable)	1 x DC-in (Lockable)	1 x DC-in (Lockable)	1 x DC-in (Lockable)
I/O	2 x USB 2.0	2 x USB 2.0	2 x USB 2.0	2 x USB 2.0
I/O	2 x RS-232/422/485	2 x RS-232/422/485	2 x RS-232/422/485	2 x RS-232/422/485
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
I/O	2 x WIFI ANT	2 x WIFI ANT	2 x WIFI ANT	2 x WIFI ANT
I/O	1 x GND Hold	1 x GND Hold	1 x GND Hold	1 x GND Hold
M.2	1 x B+M-Key 2242/3042/3052	1 x B+M-Key 2242/3042/3052	1 x B+M-Key 2242/3042/3052	1 x B+M-Key 2242/3042/3052
M.2	1 x E-Key 2230	1 x E-Key 2230	1 x E-Key 2230	1 x E-Key 2230
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)