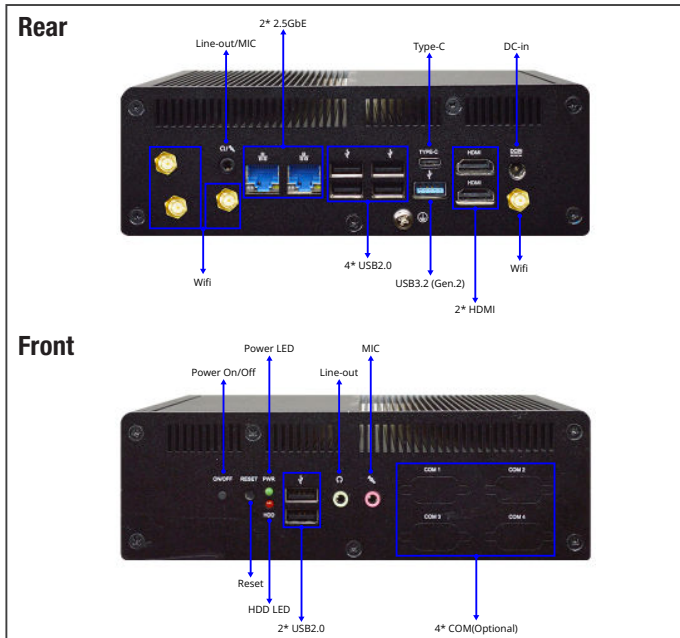


# BFDADN1-N97-N

Compact Fanless BOX PC Solutions

Fanless Embedded Box PC with Intel® Processor N-series



## Specifications

SYSTEM	
CPU	Intel® Processor N97 (TDP 12W)
CHIPSET	—
SYSTEM MEMORY	1 x DDR5 4800MHz SODIMM up to 32GB
DISPLAY INTERFACE	2 x HDMI 2.0b (Max Resolution: 4096x2160@60Hz) 1 x DisplayPort for DP1.4a from external USB Type C (Max Resolution : 4096x2304@60Hz)
STORAGE DEVICE	1 x 2.5" SATA-III Drive Bay internal drive bay (Max. Height 9.5 mm) 1 x M.2 2280 M-key (PCIe Gen.3 x2 interface) support NVMe 64GB eMMC 5.1 onboard (optional)
ETHERNET	2 x Intel® I225-V, 2.5GbE
Front I/O	Power button Reset button Power LED HDD LED 2 x USB2.0 1 x Line-out 1 x Mic 1 x DB-9 for RS-232/422/485 3 x DB-9 for RS-232
Rear I/O	4 x SMA Antenna Hole 1 x Combo Audio (Mic-in, Line-out) 2 x RJ45 4 x USB2.0 1 x USB3.2 Gen2 Type-C support DP1.4a display output 1 x USB3.2 Gen2 Ground screw 2 x HDMI DC jack
EXPANSION	1 x M.2 2230 E-Key for WiFi module 1 x M.2 3042/3052 B-Key for 4G / 5G module
INDICATOR	1 x Power LED 1 x HDD LED
OS SUPPORT	Windows® 10 Windows® 11 Linux
POWER SUPPLY	
POWER REQUIREMENT	MB : DC Input 12~28V Adapter : AC100~240V / DC12V_5A_60W
MECHANICAL	
MOUNTING	Desktop, Wallmount, Din Rail
DIMENSIONS (W x H x D)	193(W) x 142.4(D) x 62(H) mm (7.6" x 5.6" x 2.44")
GROSS WEIGHT	3.5 kg (7.7 lb)
NET WEIGHT	2.2 kg (4.8 lb)
ENVIRONMENT & CERTIFICATION	
OPERATING TEMPERATURE	-20°C ~ 60°C (-4°F ~140°F) (Under the condition of using M.2 interface SSD) 0°C ~ 50°C (32°F ~122°F) (Under the condition of using 2.5" SATA HDD)
STORAGE TEMPERATURE	-40°C ~ 85°C (-40°F ~185°F)
OPERATING HUMIDITY	10 ~ 95% @ 40°C, non-condensing
ANTI-VIBRATION	—
ANTI-SHOCK	—
CERTIFICATION	CE/FCC Class A , LVD

## Features

- 1 x DDR5 4800MHz SODIMM Slot, up to 32GB
- 2 x HDMI 2.0b, 1 x Type C DP1.4a
- 2 x 2.5GbE
- 1 x RS485/422/232, 3 x RS232
- 1 x USB 3.2 Gen2, 6 x USB2.0, 1 x USB3.2 Type C
- 1 x M.2 2280 M-key, 1 x M.2 2230 E-key, 1 x M.2 3042 B-key
- MB support Wide DC Input 12-28V
- Support 64GB eMMC & TPM2.0 (optional)

## Applications

- IoT Solution, Edge Computing, Automation Industry

## Packing List

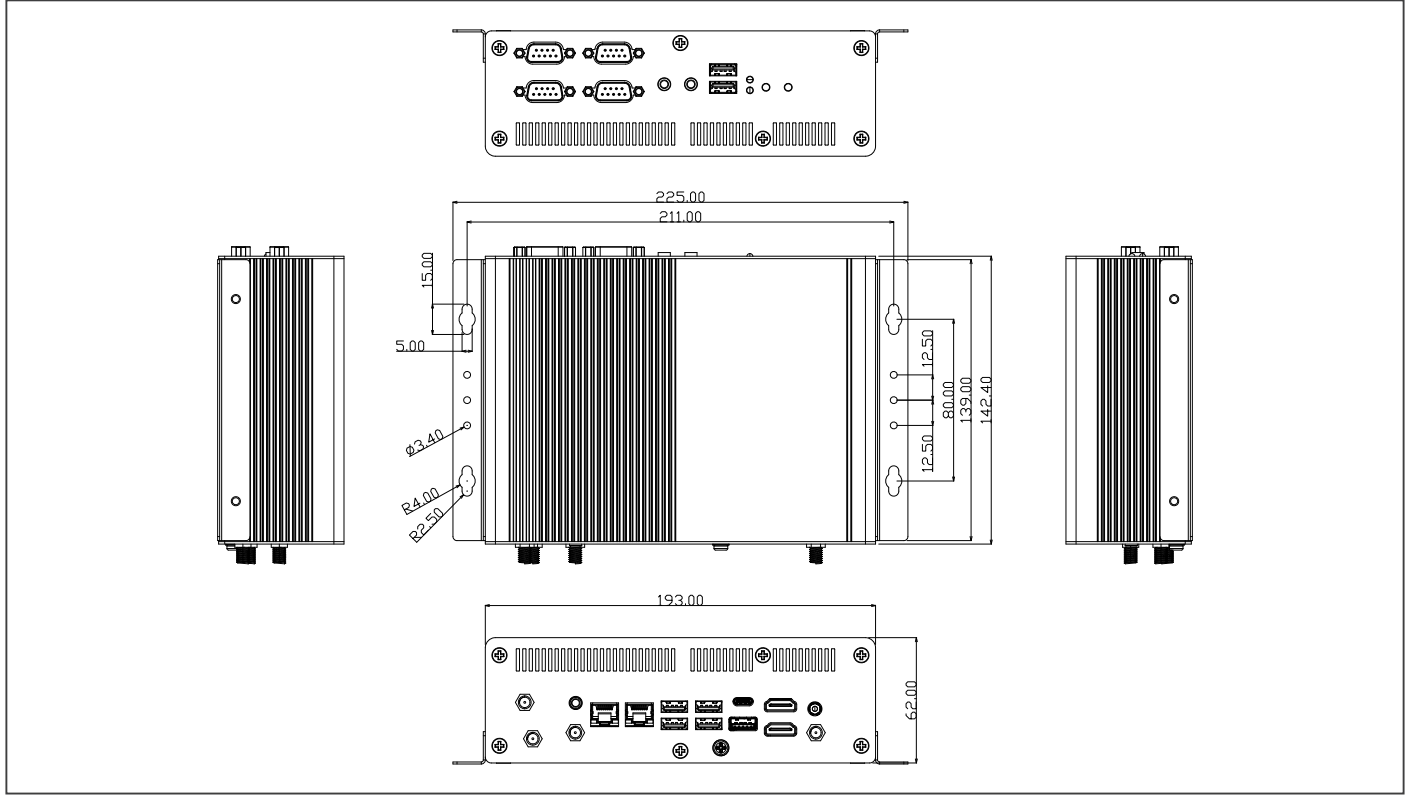
Part Number	Description	QTY
	BFDADN1-N97 SERIES	1
HCSFDMWM01B-F	Wallmount/DIN Rail brackets	2
HCS3XXDINRAILPS-F	DIN RAIL KITS	2
L01AS053-F	Adapter DC12V_60W	1
LCSCHBFDXXX-F	Screw Package	1
Change according to shipping area	Power cord	1

## Optional Accessories

Part Number	Description	QTY per Board
J05-ANT-GX57245-F	Antenna 2.4G/5G 2.8dBi	1

## Dimension

Unit: mm



## Ordering Information

Part Number	BFDADN1-N97-N	BFDADN1-N97-NT	BFDADN1-N97-NE	BFDADN1-N97-NQ	BFDADN1-N97-I	BFDADN1-N97-IT	BFDADN1-N97-IE	BFDADN1-N97-IQ
LAN	2	2	2	2	2	2	2	2
USB 3.2	2	2	2	2	2	2	2	2
USB 2.0	6	6	6	6	6	6	6	6
RS-232	3	3	3	3	3	3	3	3
RS-232/422/485	1	1	1	1	1	1	1	1
AUDIO	Mic-in Line-out	Mic-in Line-out	Mic-in Line-out	Mic-in Line-out	Mic-in Line-out	Mic-in Line-out	Mic-in Line-out	Mic-in Line-out
STORAGE	1 x 2.5" SATA-III Drive bay 1 x M.2 2280 M Key SSD	1 x 2.5" SATA-III Drive bay 1 x M.2 2280 M Key SSD	1 x 2.5" SATA-III Drive bay 1 x M.2 2280 M Key SSD	1 x 2.5" SATA-III Drive bay 1 x M.2 2280 M Key SSD	1 x 2.5" SATA-III Drive bay 1 x M.2 2280 M Key SSD	1 x 2.5" SATA-III Drive bay 1 x M.2 2280 M Key SSD	1 x 2.5" SATA-III Drive bay 1 x M.2 2280 M Key SSD	1 x 2.5" SATA-III Drive bay 1 x M.2 2280 M Key SSD
DISPLAY	2 x HDMI 1x USB-C (DP)	2 x HDMI 1x USB-C (DP)	2 x HDMI 1x USB-C (DP)	2 x HDMI 1x USB-C (DP)	2 x HDMI 1x USB-C (DP)	2 x HDMI 1x USB-C (DP)	2 x HDMI 1x USB-C (DP)	2 x HDMI 1x USB-C (DP)
EXPANSION	1 x M.2 E-Key 2230 1 x M.2 B-Key 3042/3052	1 x M.2 E-Key 2230 1 x M.2 B-Key 3042/3052	1 x M.2 E-Key 2230 1 x M.2 B-Key 3042/3052	1 x M.2 E-Key 2230 1 x M.2 B-Key 3042/3052	1 x M.2 E-Key 2230 1 x M.2 B-Key 3042/3052	1 x M.2 E-Key 2230 1 x M.2 B-Key 3042/3052	1 x M.2 E-Key 2230 1 x M.2 B-Key 3042/3052	1 x M.2 E-Key 2230 1 x M.2 B-Key 3042/3052
MOUNTING	Desktop, Wall, DIN Rail	Desktop, Wall, DIN Rail	Desktop, Wall, DIN Rail	Desktop, Wall, DIN Rail	Desktop, Wall, DIN Rail	Desktop, Wall, DIN Rail	Desktop, Wall, DIN Rail	Desktop, Wall, DIN Rail
POWER	12-28V	12-28V	12-28V	12-28V	12-28V	12-28V	12-28V	12-28V
OPERATION TEMPERATURE	-20°C ~ 60°C (-4°F ~140°F) (Under the condition of using M.2 interface SSD) 0°C ~ 50°C (32°F ~122°F) (Under the condition of using 2.5" SATA HDD)	-20°C ~ 60°C (-4°F ~140°F) (Under the condition of using M.2 interface SSD) 0°C ~ 50°C (32°F ~122°F) (Under the condition of using 2.5" SATA HDD)	-20°C ~ 60°C (-4°F ~140°F) (Under the condition of using M.2 interface SSD) 0°C ~ 50°C (32°F ~122°F) (Under the condition of using 2.5" SATA HDD)	-20°C ~ 60°C (-4°F ~140°F) (Under the condition of using M.2 interface SSD) 0°C ~ 50°C (32°F ~122°F) (Under the condition of using 2.5" SATA HDD)	-20°C ~ 60°C (-4°F ~140°F) (Under the condition of using M.2 interface SSD) 0°C ~ 50°C (32°F ~122°F) (Under the condition of using 2.5" SATA HDD)	-20°C ~ 60°C (-4°F ~140°F) (Under the condition of using M.2 interface SSD) 0°C ~ 50°C (32°F ~122°F) (Under the condition of using 2.5" SATA HDD)	-20°C ~ 60°C (-4°F ~140°F) (Under the condition of using M.2 interface SSD) 0°C ~ 50°C (32°F ~122°F) (Under the condition of using 2.5" SATA HDD)	-20°C ~ 60°C (-4°F ~140°F) (Under the condition of using M.2 interface SSD) 0°C ~ 50°C (32°F ~122°F) (Under the condition of using 2.5" SATA HDD)
TPM	—	2.0	—	2.0	—	2.0	—	2.0
WIFI	—	—	—	—	YES	YES	YES	YES
EMMC	—	—	64GB	64GB	—	—	64GB	64GB