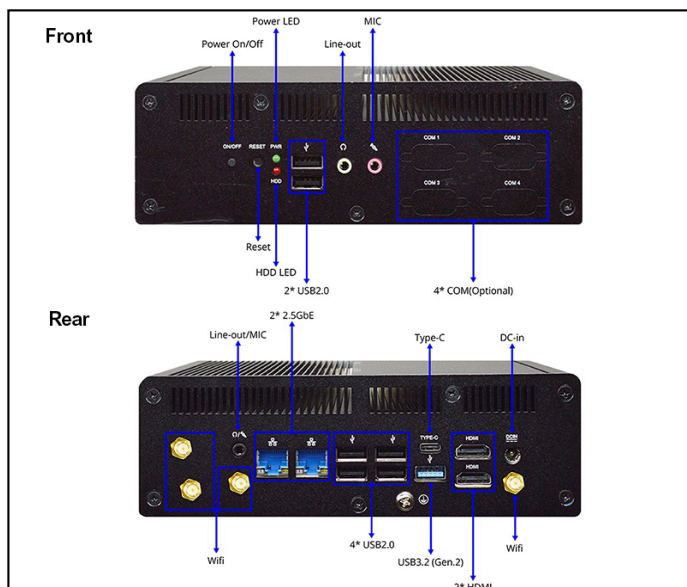


Fanless Embedded Box PC featuring Intel® Processor N-series for High-Efficiency Operation



Features

- **Efficient Performance:** Powered by Intel® Processor N97 (Alder Lake-N) with 12W TDP.
- **Advanced Memory:** Supports DDR5 4800MHz SODIMM, up to 32GB.
- **Stunning Display Support:** Dual HDMI 2.0b and Type-C DP1.4a for 4K resolution.
- **High-Speed Networking:** Dual 2.5GbE ports for reliable data transmission.
- **Comprehensive I/O:** 4 COM ports, 2 USB 3.2 Gen2 (including 1 Type-C DP1.4a), and 6 USB 2.0 ports
- **Storage and Expansion:** Includes SATA, M.2 M-key, M.2 E-key, M.2 B-key, and optional 64GB eMMC.
- **Wide Power Support:** Wide DC input range (12-28V) for varied installation environments.
- **Security Ready:** Optional TPM 2.0 for enhanced security.

Packing List

PART NUMBER	DESCRIPTION	QTY
BFDADN1	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

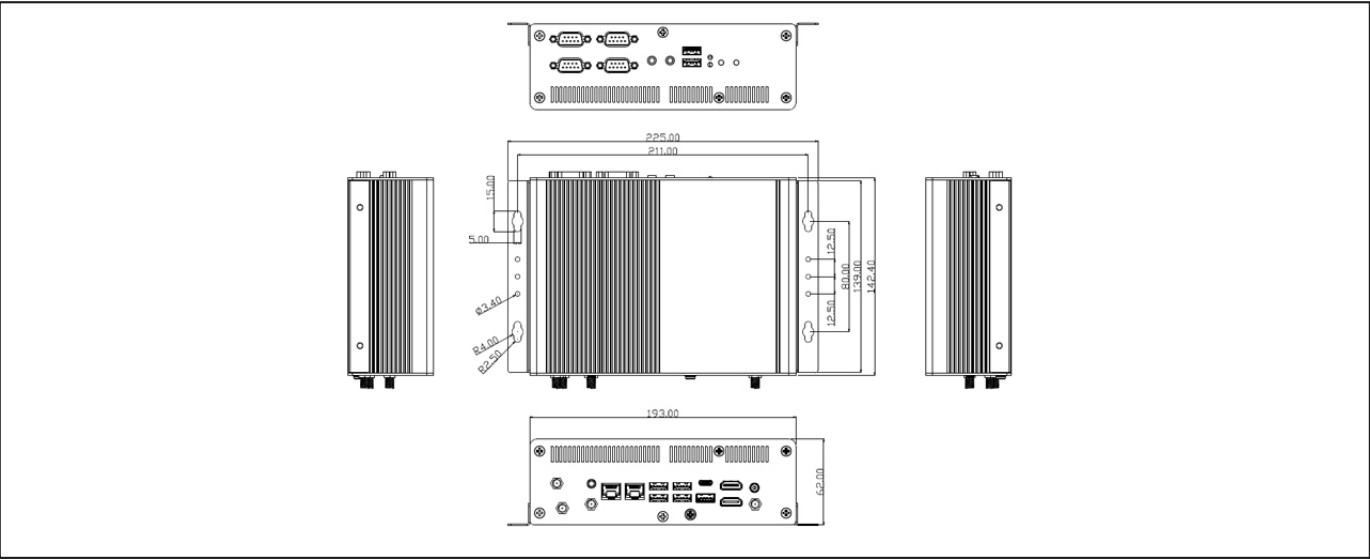
Optional Accessory

PART NUMBER	DESCRIPTION	QTY
J05-ANT-GX57245-F	Antenna 2.4G/5G 2.8dBi	1

Specifications

SYSTEM	
MB FORM FACTOR	3.5"
CPU	Onboard Intel® Processor N97 (Formerly Alder Lake-N, TDP 12W)
CHIPSET	Intel® SoC
MEMORY	1 x DDR5 4800MHz, Single Channel SO-DIMM, up to 32GB
SECURITY	TPM2.0 (Optional)
OS SUPPORT	Windows® 11 (64bit) Windows® 10 (64bit) Linux
POWER	
POWER REQUIREMENT	DC-in 12-28V 60W Adapter: AC100-240V, DC12V/5.0A
DISPLAY	
Type C DP	1 x Type C DP1.4a (Max Resolution: 4096 x 2304@60Hz)
HDMI	2 x HDMI 2.0b (Max Resolution: 4096 x 2160@60Hz)
LAN	
ETHERNET	2 x RJ45 for Intel® I226-V 2.5GbE
SYSTEM I/O	
REAR PANEL I/O	1 x Audio (Line out, MIC Combo) 2 x RJ45 4 x USB 2.0 1 x USB 3.2 Gen 2 Type C support DP1.4a display output 1 x USB 3.2 Gen 2 2 x HDMI 1 x DC Jack 1 x Grounding screw 4 x Antenna Holes
FRONT PANEL I/O	1 x Power Button 1 x Reset Button 1 x Power LED 1 x HDD LED 2 x USB 2.0 1 x Line-out 1 x MIC-in 1 x RS-232/422/485 3 x RS-232
STORAGE	
SATA	1 x SATA III
eMMC	eMMC 64GB (optional)
EXPANSION	
M.2	1 x M-Key 2280 (PCIe 3.0 x2) Support NVMe 1 x E-Key 2230 for WiFi Module 1 x B-Key 3042/3052 for 4G/5G Module
MECHANICAL	
MOUNTING	Desktop, Wallmount, Din Rail
DIMENSIONS (W x D x H)	193.0 (W) x 142.4 (D) x 62.0 (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) , 0°C ~ 50°C (32°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

Dimension Unit: mm



Ordering Information

PART NUMBER	BFDADN1-N97-N	BFDADN1-N97-NT	BFDADN1-N97-I	BFDADN1-N97-IT	BFDADN1-N97-P
CPU	Intel® Processor N97	Intel® Processor N97	Intel® Processor N97	Intel® Processor N97	Intel® Processor N97
SECURITY		TPM2.0		TPM2.0	TPM2.0
POWER REQUIREMENT	DC-in 12-28V	DC-in 12-28V	DC-in 12-28V	DC-in 12-28V	DC-in 12-28V
TPYE C DP	1 x Type C DP	1 x Type C DP	1 x Type C DP	1 x Type C DP	1 x Type C DP
HDMI	2 x HDMI	2 x HDMI	2 x HDMI	2 x HDMI	2 x HDMI
ETHERNET	2 x 2.5GbE	2 x 2.5GbE	2 x 2.5GbE	2 x 2.5GbE	2 x 2.5GbE
I/O	1 x USB 3.2 Gen 2	1 x USB 3.2 Gen 2	1 x USB 3.2 Gen 2	1 x USB 3.2 Gen 2	1 x USB 3.2 Gen 2
I/O	6 x USB 2.0	6 x USB 2.0	6 x USB 2.0	6 x USB 2.0	8 x USB 2.0
I/O	3 x RS-232	3 x RS-232	3 x RS-232	3 x RS-232	5 x RS-232
I/O	1 x RS-232/422/485	1 x RS-232/422/485	1 x RS-232/422/485	1 x RS-232/422/485	1 x RS-232/422/485
I/O	1 x MIC-in	1 x MIC-in	1 x MIC-in	1 x MIC-in	1 x MIC-in
I/O	1 x Line-out	1 x Line-out	1 x Line-out	1 x Line-out	1 x Line-out
I/O	4 x SMA	4 x SMA	4 x SMA	4 x SMA	4 x SMA
SATA	1 x SATA III	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	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	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
OTHER			WiFi	WiFi	
OPERATING TEMPERATURE	-20°C ~ 60°C (-4°F ~ 140°F), 0°C ~ 50°C (32°F ~ 122°F)	-20°C ~ 60°C (-4°F ~ 140°F), 0°C ~ 50°C (32°F ~ 122°F)	-20°C ~ 60°C (-4°F ~ 140°F), 0°C ~ 50°C (32°F ~ 122°F)	-20°C ~ 60°C (-4°F ~ 140°F), 0°C ~ 50°C (32°F ~ 122°F)	-20°C ~ 60°C (-4°F ~ 140°F), 0°C ~ 50°C (32°F ~ 122°F)