



FANLESS MINI COMPUTER

BCO-1000-ADLN-B_3L

Fanless Mini Computer with Intel® IoTG N97/Intel® Atom® x7835RE Processors, 1x DP, 1x HDMI, 2x COM, 3x LAN, 1x 2.5" Drive Bay

Features

- Support 12th Gen Intel® IoTG Alder Lake-N N97/Intel® Atom® x7835RE
- DDR5 4800 MT/s SO-DIMM. Max. 16GB
- Dual Independent Display by 1x Display Port, 1x HDMI
- 3x Intel® I225-V 2.5GbE LAN
- 1x 2.5" Drive Bay
- 1x M.2 B-Key (Default: 128GB SSD)
- 1x Dual SIM Socket
- 2x COM, 2x USB 3.2 Gen 2, 2x USB 2.0
- 12 to 36VDC Wide Range Power Input Supporting AT/ATX Mode
- Wide Operating Temperature 0°C to 50°C
- TPM 2.0 Supported
- CE, FCC Class A, UL 62368 Ed. 3



Specifications

System

Processor	• 12th Gen Intel® IoTG Alder Lake-N Processor N97, 4 cores, 12W • Intel Atom® x7835RE Processor, 8 cores, 12W
System Chipset	SoC integrated
LAN Chipset	2x Intel® I225-V 2.5GbE LAN 1x Intel® I225-V 2.5GbE LAN (Co-lay I226-LM Support TSN, not verified in NPI)
Audio Codec	Realtek ALC897
System Memory	DDR5 4800 MT/s SO-DIMM. Max. 16GB
Graphics	Intel® UHD Graphics
BIOS	AMI UEFI BIOS
Watchdog	Software Programmable Supports 1~255 sec. System Reset
TPM	TPM 2.0

Display

Display Port	1x DisplayPort 1.4a Max Resolution 4096 x 2304 @60Hz
HDMI	1x HDMI 1.4b Max Resolution 3840 x 2160 @30Hz
Multiple Display	2x Independent Displays

Storage

SATA	1x Internal 2.5" SATA SSD Bay (7mm or 9mm)
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Expansion

M.2 B-Key	1x M.2 B Key (2242/3042, SATA/PCIe x1/USB3.0, support LTE/4G/5G/Storage Module)
M.2 E-Key	1x M.2 E Key (2230, PCIe x1 & USB 2.0, support Wi-Fi & BT)

I/O

Audio	Line-in/Line-out/Mic-in
COM	2x DB9 COM1: RS232/422/485 COM2: RS232
GPIO	1x 8 GPIO
LAN	3x RJ45 (2.5GbE)
USB	2x USB 3.2 Gen1 2x USB 2.0 Type-A
Others	• 5x Antenna Holes • 1x Power button • 1x HD LED • 1x Power LED

Operating System

Windows	Windows 10/11
Linux	Linux Kernel

Power

Power Adapter	Optional AC/DC 12V/5A, 60W
Power Mode	AT, ATX (Default ATX)
Power Supply Voltage	12~36VDC
Power Connector	3-pin Terminal Block

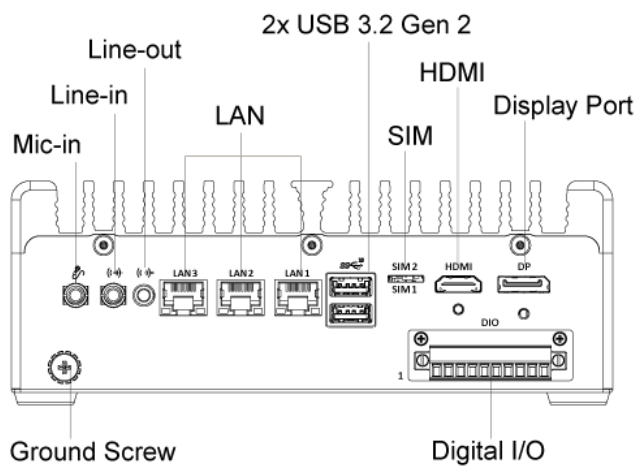
Environment

Operating Temperature	0°C to 50°C (12W CPU)
Storage Temperature	-30°C to 85°C
Relative Humidity	10% to 95% (non-condensing)
Certification	UL 62368 Ed. 3, CE, FCC Class A
Vibration	With SSD: 5 Grms (5 - 500 Hz, 0.5 hr/axis)
Shock	With SSD: 50G half-sin 11ms

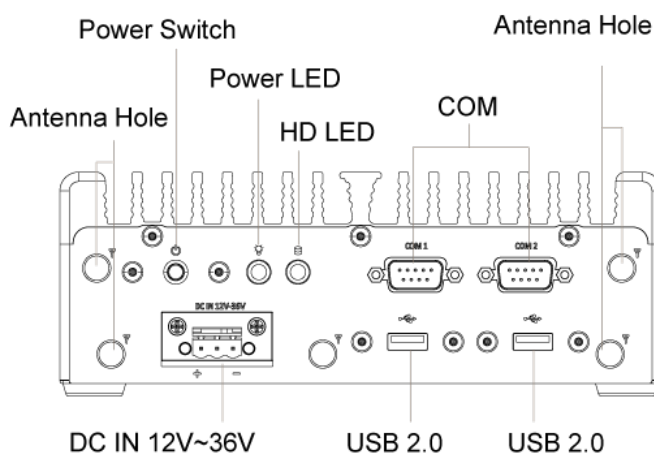
Physical

Dimensions (WxDxH)	192 x 140 x 68mm
Construction	Extruded Aluminum with Heavy Duty Metal
Mounting Options	Wall Mounting DIN-Rail Mounting (Optional)

External I/O Mechanical Layout



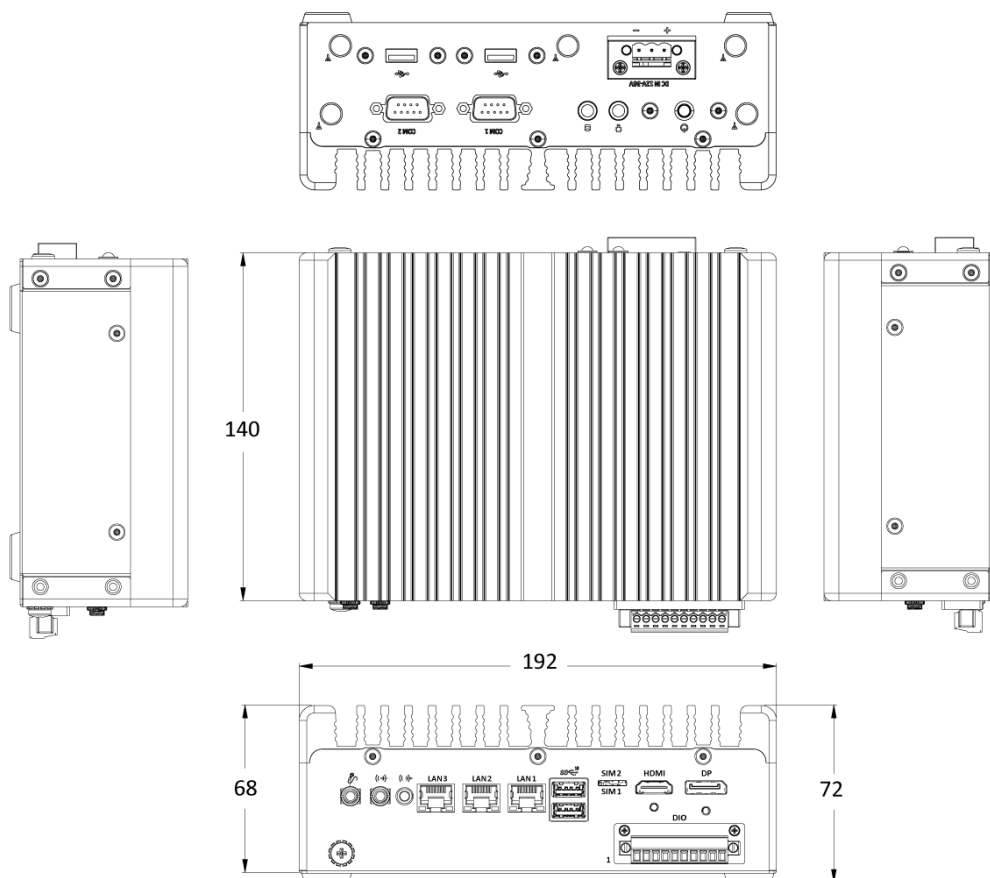
Front Panel



Rear Panel

Dimension

Unit: mm



Compliances and Standards

Vibration	With SSD: 5 Grms (5 - 500 Hz, 0.5 hr/axis) IEC60068-2-64:2008 Designed to comply with MIL-STD-810H Method 514.8 Procedure I
Shock	With SSD: 50G half-sin 11ms IEC60068-2-27:2008 Designed to comply with MIL-STD-810H Method 516.8 Procedure I
Operating Temperature	0°C to 50°C (12W CPU) IEC60068-2-1:2007 (Cold test procedure) IEC60068-2-2:2007 (Dry heat test procedure) IEC60068-2-3:2007 (Damp heat, steady state, test procedure) IEC60068-2-14:2009 (Wide temperature range thermal shock)
EMC	- FCC Class A - CE - ICES-003 - UKCA - Industrial EMC Compliance - EN 61000-4-2: 2009 - EN IEC 61000-4-3: 2020 - EN 61000-4-4: 2012 - EN 61000-4-5: 2014 +A1: 2017 - EN 61000-4-6: 2014
Safety	- UL Safety: UL62368-1, 3rd Ed., (cULus) - Test procedure: CB Scheme - Standard: IEC 62368-1:2018

Available Models

Model No.	Description
BCO-1000-ADLN97-3L-P	Fanless Mini Computer with Intel® IoTG N97 Processors, 1x DP, 1x HDMI, 2x COM, 3x LAN, 1x 2.5" Drive Bay, w/ Power Adapter
BCO-1000-ADLX7835RE-3L-P	Fanless Mini Computer with Intel® Atom® x7835RE Processors, 1x DP, 1x HDMI, 2x COM, 3x LAN, 1x 2.5" Drive Bay, w/ Power Adapter

Optional Accessories

Model No.	Description
1-E09A06008	Adapter AC/DC 12V 5A 60W with 3pin Terminal Block Plug 5.0mm Pitch
1-TPCD00005	Power Cord, 3-pin US Type, 180cm
1-TPCD00002	Power Cord, European Type, 180cm
1-TPCD00001	Power Cord, 3-pin UK Type, 180cm
3-DINR-0004	Din Rail-2 Mounting Kit

Packing List

1x BCO-1000-ADLN-B Fanless Mini Computer
1x Wall Mount Kit
1x Accessory Kit

US Exports And Tariff Codes

ECCN	5A992.c
HTS	8471.50.0150
ScheduleB	84.71

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