



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 4800/5600 MT/s SO-DIMM. Max. 32GB
- 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

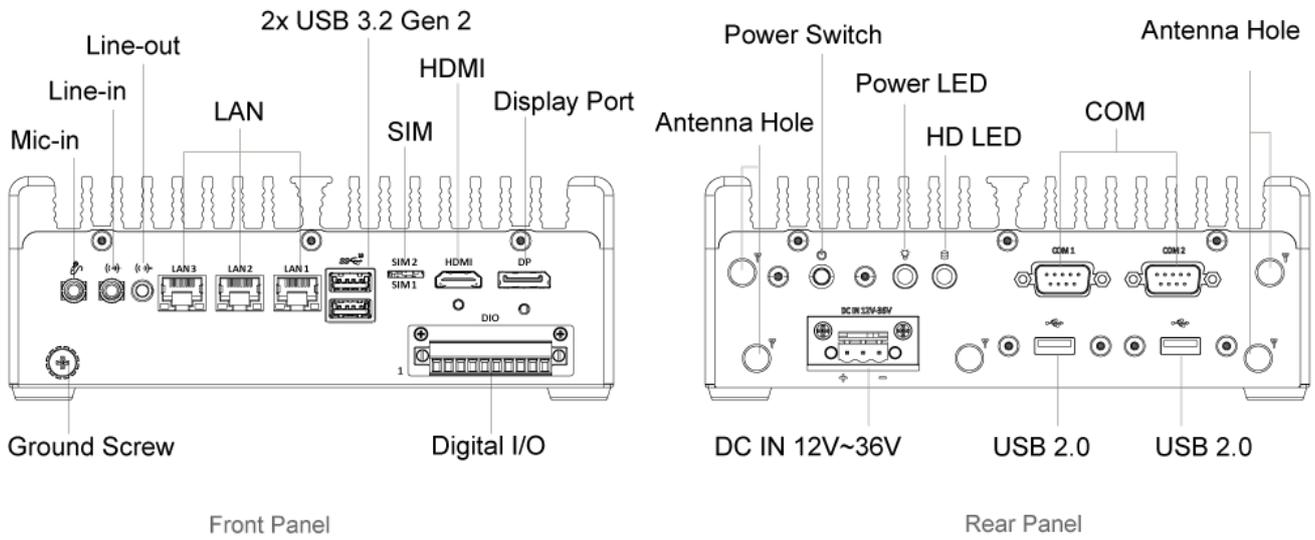


## Specifications

System	Physical
<b>Processor</b> <ul style="list-style-type: none"> <li>• 12th Gen Intel® IoTG Alder Lake-N Processor N97, 4 cores, 12W</li> <li>• Intel Atom® x7835RE Processor, 8 cores, 12W</li> </ul>	<b>Dimensions (WxDxH)</b> 192 x 140 x 68mm <b>Construction</b> Extruded Aluminum with Heavy Duty Metal <b>Mounting Options</b> Wall Mounting DIN-Rail Mounting (Optional)
<b>System Chipset</b> SoC integrated <b>LAN Chipset</b> 2x Intel® I225-V 2.5GbE LAN 1x Intel® I225-V 2.5GbE LAN (Co-lay I226-LM Support TSN, not verified in NPI) <b>Audio Codec</b> Realtek ALC897 <b>System Memory</b> DDR5 4800/5600 MT/s SO-DIMM. Max. 32GB <b>Graphics</b> Intel® UHD Graphics <b>BIOS</b> AMI UEFI BIOS <b>Watchdog</b> Software Programmable Supports 1~255 sec. System Reset <b>TPM</b> TPM 2.0	
<b>Display</b>	
<b>Display Port</b> 1x DisplayPort 1.4a Max Resolution 4096 x 2304 @60Hz <b>HDMI</b> 1x HDMI 1.4b Max Resolution 3840 x 2160 @30Hz <b>Multiple Display</b> 2x Independent Displays	
<b>Storage</b>	
<b>SATA</b> 1x Internal 2.5" SATA SSD Bay (7mm or 9mm)	
<b>Expansion</b>	
<b>M.2 B-Key</b> 1x M.2 B Key (2242/3042, SATA/PCIe x1/USB3.0, support LTE/4G/5G/Storage Module) <b>M.2 E-Key</b> 1x M.2 E Key (2230, PCIe x1 & USB 2.0, support Wi-Fi & BT)	
<b>I/O</b>	
<b>Audio</b> Line-in/Line-out/Mic-in <b>COM</b> 2x DB9 COM1: RS232/422/485 COM2: RS232 <b>GPIO</b> 1x 8 GPIO <b>LAN</b> 3x RJ45 (2.5GbE) <b>USB</b> 2x USB 3.2 Gen1 2x USB 2.0 Type-A <b>Others</b> <ul style="list-style-type: none"> <li>• 5x Antenna Holes</li> <li>• 1x Power button</li> <li>• 1x HD LED</li> <li>• 1x Power LED</li> </ul>	
<b>Operating System</b>	
<b>Windows</b> Windows 10/11 <b>Linux</b> Linux Kernel	
<b>Power</b>	
<b>Power Adapter</b> Optional AC/DC 12V/5A, 60W <b>Power Mode</b> AT, ATX (Default ATX) <b>Power Supply Voltage</b> 12~36VDC <b>Power Connector</b> 3-pin Terminal Block	
<b>Environment</b>	
<b>Operating Temperature</b> 0°C to 50°C (12W CPU) <b>Storage Temperature</b> -30°C to 85°C <b>Relative Humidity</b> 10% to 95% (non-condensing) <b>Certification</b> UL 62368 Ed. 3, CE, FCC Class A <b>Vibration</b> With SSD: 5 Grms (5 - 500 Hz, 0.5 hr/axis) <b>Shock</b> With SSD: 50G half-sin 11ms	

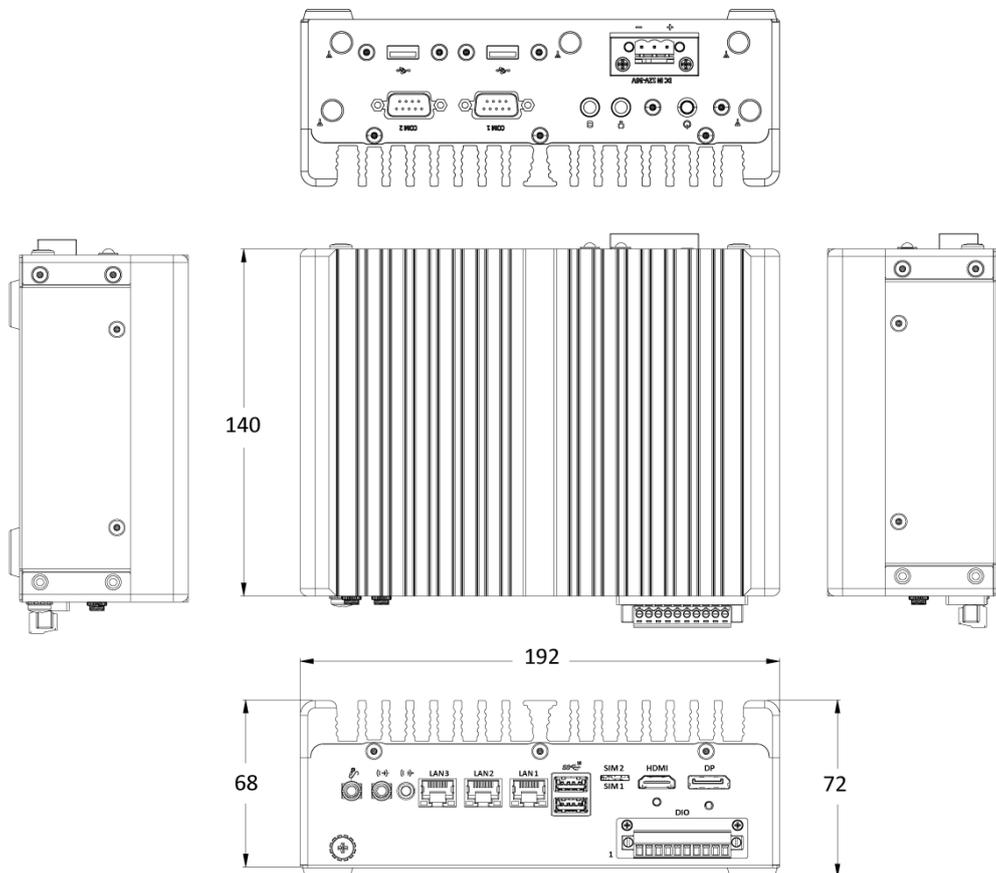
\* All specifications and photos are subject to change without notice.

External I/O Mechanical Layout



Dimension

Unit: mm



## 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
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

## 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

## Exports And Tariff Codes

ECCN	5A992.c
HTS	8471.50.0150
ScheduleB	84.71

## 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	<ul style="list-style-type: none"> <li>• FCC Class A</li> <li>• CE</li> <li>• ICES-003</li> <li>• UKCA</li> <li>• Industrial EMC Compliance</li> <li>- EN 61000-4-2: 2009</li> <li>- EN IEC 61000-4-3: 2020</li> <li>- EN 61000-4-4: 2012</li> <li>- EN 61000-4-5: 2014 +A1: 2017</li> <li>- EN 61000-4-6: 2014</li> </ul>
Safety	<ul style="list-style-type: none"> <li>• UL Safety: UL62368-1, 3rd Ed., (cULus)</li> <li>• Test procedure: CB Scheme</li> <li>• Standard: IEC 62368-1:2018</li> </ul>