



FANLESS MINI COMPUTER

# BCO-500-ADL

Semi-Rugged Fanless Mini Computer with Intel® Alder lake N97/i3-N305 Processor, 1x DP, 1x HDMI, 4x USB, 2x LAN

## Features

- Support Intel® Alder Lake N97/N305 Processor
- 1x 262-Pin DDR5 4800MT/s SO-DIMM. Max. up to 16GB
- Dual Independent Display by 1x Display Port, 1x HDMI
- 2x Intel® I225-V 2.5GbE LAN
- 1x M.2 B-Key, 1x M.2 E-Key
- 2x COM, 4x USB 3.2, 1x Line-out
- 12 to 36VDC Wide Range Power Input Supporting AT/ATX Mode
- Wide Operating Temperature -10°C up to 50°C
- TPM 2.0 Supported
- CE, FCC Class A, UL, VCCI, RCM

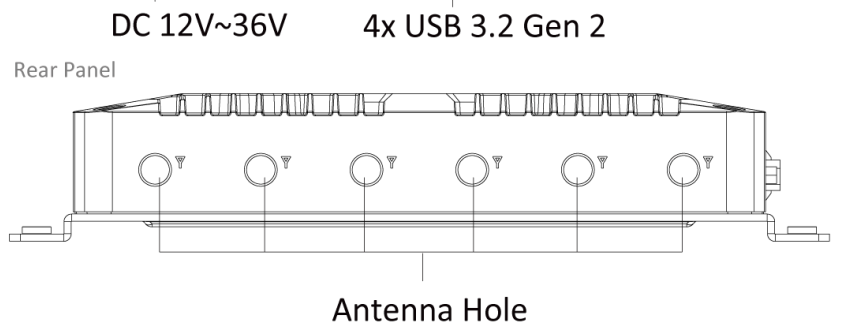
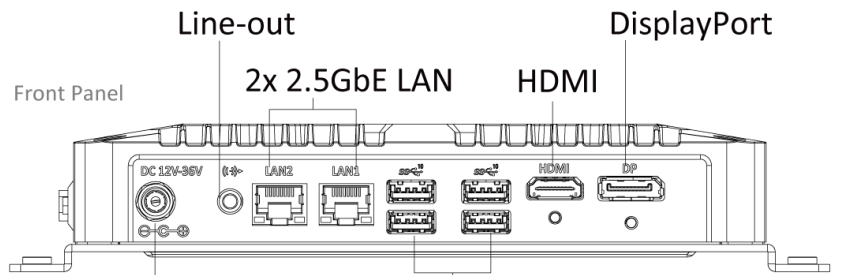
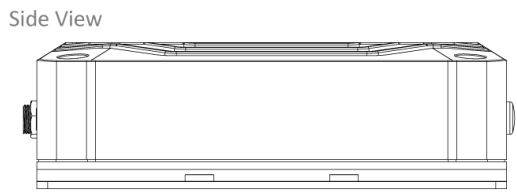
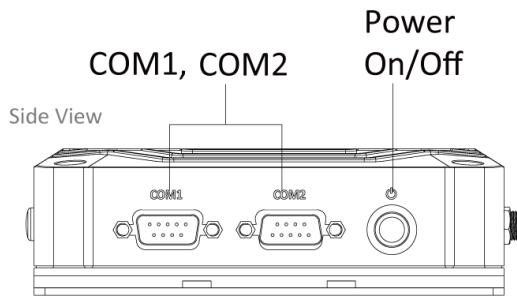


## Specifications

System		Physical	
Processor	<ul style="list-style-type: none"> <li>• 12th Gen Intel® IoTG Alder Lake-N Processor N97, QC, 12W</li> <li>• 12th Gen Intel® IoTG Alder Lake-N Processor i3-N305, QC, 15W</li> </ul>	Dimensions	225 (W) x 130 (D) x 41 (H) mm
System Chipset	SoC integrated	Weights	3KG
LAN Chipset	2 x Intel® I225-V 2.5GbE LAN	Construction	Extruded Aluminum with Heavy Duty Metal
Audio Codec	Realtek ALC897	Mounting Options	Wall Mounting Din-Rail Mounting (Optional)
System Memory	1x 262-Pin DDR5, 4800MHz SO-DIMM, Max. up to 16GB (Non-ECC)		
BIOS	AMI uEFI BIOS		
Watchdog	Software Programmable Supports 1~255 sec. System Reset		
TPM	TPM 2.0		
Display			
Display Port	1 x DisplayPort 1.4a, Max Resolution 4096 x 2304 @60Hz		
HDMI	1 x HDMI 1.4b, Max Resolution 3840 x 2160 @30Hz		
Multiple Display	2x Independent Displays		
Storage			
M.2 B-Key	1 x M.2 B Key (2242/2280/3042, SATA/PCIe x1 support SATA)		
Expansion			
M.2	1 x M.2 E Key (2230, PCIe x1, USB 2.0 for Wifi/Bluetooth)		
I/O			
DisplayPort	1x DisplayPort		
HDMI	1 x HDMI		
COM	2x DB9 COM1: RS232/422/485 COM2: RS232		
USB	4x USB 3.2 Gen 2 (10 Gbps)		
LAN	2x RJ45 2.5GbE LAN Ports Connectors		
Audio	1x Line-out		
Others	6x Antenna Holes 1x Power button 1x DC in Power Jack with Lock		
Operating System			
Windows	Windows 10 / Windows 11		
Linux	Linux kernel		
Power			
Power Adapter	Adapter 60W (optional)		
Power Mode	AT, ATX (Default ATX)		
Power Supply Voltage	12~36VDC		
Power Connector	DC in Power Jack with Lock		
Environment			
Operating Temperature	N97 CPU: -10°C to 50°C (12W) i3-N305 CPU: -10°C to 45°C (15W)		
Storage Temperature	-30°C to 85°C		
Relative Humidity	10% to 95% (non-condensing)		
Certification	CE, FCC Class A, UL, VCCI, RCM		
Vibration	IEC60068-2-64:2008 With SSD: 5 Grms (5 - 500 Hz, 0.5 hr/axis) Designed to comply with MIL-STD-810G Method 514.7 Procedure I		
Shock	IEC60068-2-27:2008 With SSD: 50G half-sin 11ms Designed to comply with MIL-STD-810G Method 516.7 Procedure I		

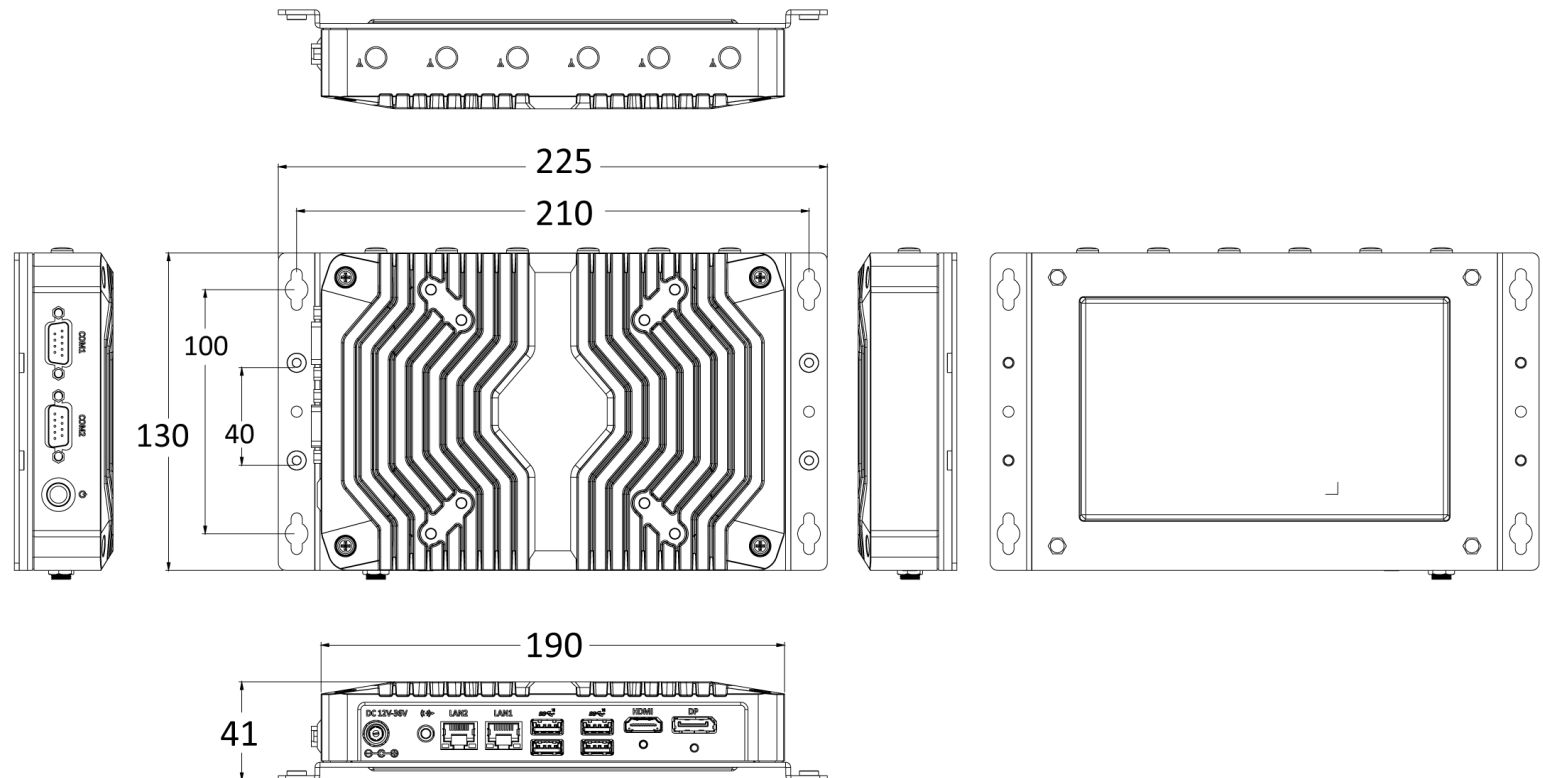
\* All specifications and photos are subject to change without notice.

External I/O Mechanical Layout



Dimension

Unit: mm



### Available Models

Model No.	Description
BCO-500-ADL-2L-N97	Fanless Mini Industrial Computer with Intel® Alder Lake N97, QC, 12W Processor, 1x DP, 1x HDMI, 4x USB, 2x LAN
BCO-500-ADL-2L-N305	Fanless Mini Industrial Computer with Intel® Alder Lake i3-N305, QC, 15W Processor, 1x DP, 1x HDMI, 4x USB, 2x LAN

### Optional Accessories

Model No.	Description
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-BC5AD110S10-S0	Din-Rail Mounting Kit
3-BC5AD020S10-S0	M.2 B KEY Thermal Kit

### Packing List

1x BCO-500-ADL Series Fanless Mini Computer  
1x Accessory Kit

### Exports And Tariff Codes

ECCN	5A992.c
HTS	8471.50.0150
ScheduleB	84.71