



FANLESS MINI COMPUTER

BCO-1000-EHL-10

Basic fanless embedded system with Intel Celeron® CPU, 2x DP, 2x COM, 1x 2.5" SATA HDD Bay

Features

- Support Intel Celeron® Processor
- 1x 260-pin DDR4 SODIMM. Max. up to 32GB
- Dual Independent Display by 2x Display Port
- 1x 2.5GbE, 1x GbE supporting (Wake-on-LAN and PXE)
- 1x 2.5" SATA HDD Bay, 1x mSATA,
- 1x M.2 (B Key, 2242/3042/3052, Support 4G/LTE)
- 1x Full-size mini PCIe for communication or expansion modules
- 2x RS-232/422/485, 3x USB 3.2 Gen2, 1x USB 2.0
- 9 to 36VDC Wide Range Power Input Supporting AT/ATX Mode
- Extended Operating Temperature 0°C to 50°C
- TPM 2.0 Supported
- With 1x Universal Expansion Slot
- UL Listed



Specifications

System	
Processor	Support Intel® EHL Processor (Up to 10W TDP) -Intel® Celeron® Processor J6413, Quad Core, 1.5 MB Cache, 1.8 GHz
System Chipset	SoC integrated
LAN Chipset	1 GbE1: Intel I210 (Support Wake-on-LAN and PXE) 2.5 GbE2: Intel I225 (Support Wake-on-LAN and PXE)
Audio Codec	Realtek ALC888S
System Memory	1x 260-Pin DDR4 2400/2667/3200MT/s SODIMM. Max. up to 32 GB
Graphics	Intel® UHD Graphics
BIOS	AMI 256Mbit SPI BIOS
Watchdog	Software Programmable Supports 1~255 sec. System Reset
TPM	TPM 2.0
Display	
Display Port	2x DisplayPort 1.4, DP++ (4096 x 2160@60Hz)
Multiple Display	Dual Display
Storage	
M.2	1x M.2 (B Key, 2242/3042/3052, PCIe x1 + USB 3.2 Gen2, Support 4G/LTE Module)
mSATA	1x mSATA (shared by 1x Mini PCI Express)
SIM Socket	1x External SIM socket
SSD/HDD	1x Internal 2.5" SATA HDD Bay (support H=9.5 mm)
Expansion	
Mini PCIe	1x Full-size Mini PCIe
Expansion Modules	
Optional:	
• 2-port COM module with Super I/O Chipset	
• 4-Port USB module with USB hub	
• 1-Port DP 1.4 and DIO (4 in / 4 out, Isolated)	
• 1-Port HDMI 2.0	
I/O	
Audio	1x Mic-in, 1x Line-out
CAN	2x CAN 2.0 A/B 2-pin Internal header
COM	2x RS-232/422/485
LAN	2x RJ45 (2.5 & 1 GbE)
Universal I/O Bracket	1x Universal I/O Bracket (By mini PCIe interface, C&T Proprietary Module)
USB	3x USB 3.2 Gen 2 (10 Gbps) 1x USB 2.0
Others	5x WiFi Antenna Holes 1x Power Switch, 1x AT/ATX Switch, 1x Remote Power On/Off 1x Internal CMOS Battery Cable 1x 4-PIN FAN Connector
Operating System	
Windows	Windows 10
Linux	Linux Kernel
Power	
Power Adapter	Optional AC/DC 12V/5A, 60W
Power Mode	AT, ATX
Power Ignition Sensing	6-mode and Adjustable Power Ignition Management, Optional
Power Supply Voltage	9~36VDC
Power Connector	3-pin Terminal Block

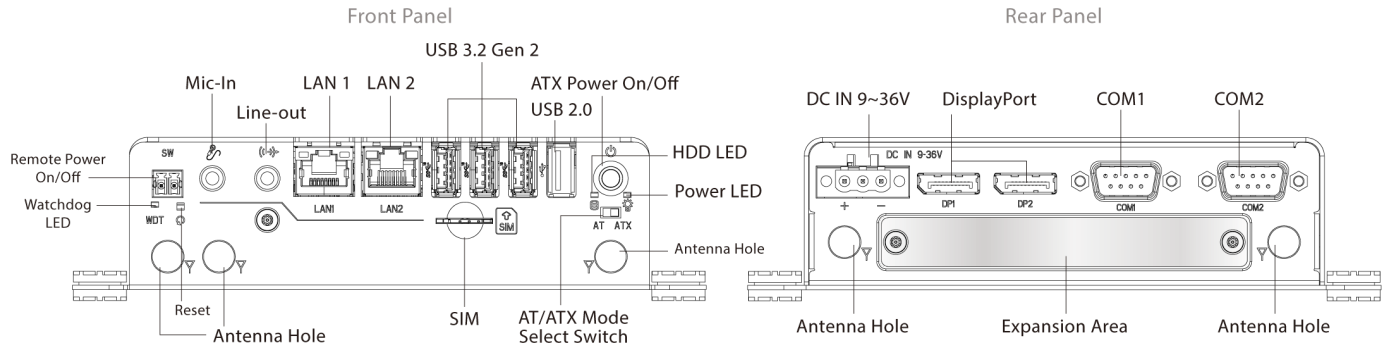
Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) Reverse Protection
Environment	
Operating Temperature	0°C to 50°C
Storage Temperature	-30°C to 70°C
Relative Humidity	10% to 95% (non-condensing)
Certification	UL, CE, FCC Class A
Vibration	With SSD: 5 Grms, 5 - 500 Hz, 0.5 hr/axis With HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis
Shock	With SSD: 50G, half sine, 11ms
Physical	
Dimensions	142 (W) x 101.2 (D) x 41.5 (H) mm
Weights	0.6 kg
Construction	Extruded Aluminum with Heavy Duty Metal
Mounting Options	Wall Mounting DIN-Rail Mounting (Optional)

* For configured to run at 10W, operating temperatures will be limited to 50°C.
 ** 10W CPUs may experience thermal throttling depending on extreme application workloads; this is also due to an increase in the physical CPU cores from the Intel silicon (up to 4 cores). Please note, this does not indicate system malfunction or problems in the fanless design. Please consult our embedded engineers for the best configuration to match your application requirements.
 *** All specifications and photos are subject to change without notice.

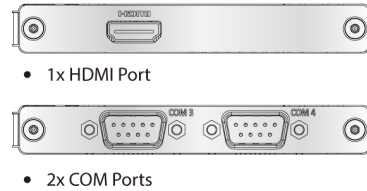
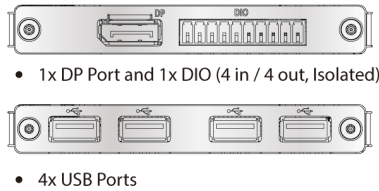


BCO-1000-EHL-10

External I/O Mechanical Layout

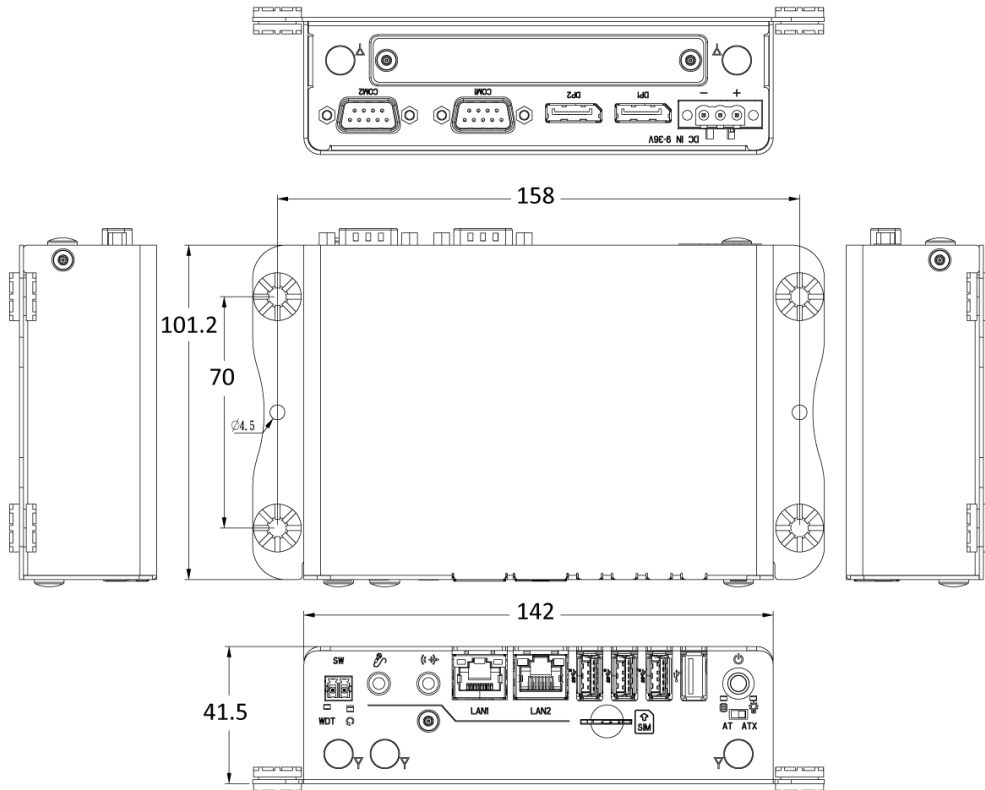


Available Expansion Module Options for Rear Panel



Dimension

Unit: mm





BCO-1000-EHL-10

Available Models

Model No.	Description
BCO-1000-EHL-J6413-10	Basic fanless embedded system with Intel J6413 CPU, 2x DP, 2x COM, 1x 2.5" SATA HDD Bay
BCO-1000-EHL-J6413-10A	Basic fanless embedded system with Intel J6413 CPU, 3x DP, 2x COM, DIO, 1x 2.5" SATA HDD Bay
BCO-1000-EHL-J6413-10B	Basic fanless embedded system with Intel J6413 CPU, 2x DP, 4x COM, 1x 2.5" SATA HDD Bay
BCO-1000-EHL-J6413-10U	Basic fanless embedded system with Intel J6413 CPU, 2x DP, 2x COM, 4x USB, 1x 2.5" SATA HDD Bay
BCO-1000-EHL-J6413-10H	Basic fanless embedded system with Intel J6413 CPU, 2x DP, 1x HDMI, 2x COM, DIO, 1x 2.5" SATA HDD Bay
BCO-1000-EHL-J6413-10G	Basic fanless embedded system with Intel J6413 CPU, 2x DP, 2x COM, 1x 2.5" SATA HDD Bay, Power Ignition

Optional Accessories

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

Packing List

1x BCO-1000-EHL-10 Series Embedded System
1x Wall Mount Kit
1x Accessory Kit



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Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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