



INDUSTRIAL COMPUTER

BCO-6000-RPL

Industrial Computer with 12th/13th Gen Intel® IoTG Processor, 2x DP, 1x HDMI, 2x COM, 3x LAN, 1x PCIe x16 (or 2x PCIe x8) Expansion



Features

- Support 12th/13th Gen Intel® IoTG Processor Core i9/i7/i5/i3, Pentium, Celeron (35W only)
- DDR4 SODIMM. Max. up to 64GB (Default: 8GB)
- 2x Display Port, 1x HDMI, Triple Independent Display
- 3x 2.5GbE LAN
- 1x M.2 M-Key (Default: 128GB SSD), 1x M.2 E-key, 1x M.2 B-key
- 4x COM, 6x USB 3.2 Gen 2, 2 USB 3.2 Gen 1, x2 USB 2.0
- 1x PCIe x16 Slot (or 2x PCIe x8 Slot)
- 19 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



Specifications

System	
Processor	Intel® IoTG: • 12th/13th Gen Intel® Core™ Processor i9/i7/i5/i3, Pentium, Celeron (35W only)
System Chipset	Intel® Q670E Express Chipset
LAN Chipset	Intel® I225LM PCIe 2.5GbE LAN Intel® I225V PCIe 2.5GbE LAN Intel® I225LV PCIe 2.5GbE LAN
Audio Codec	Realtek ALC897
System Memory	DDR4 3200MT/s SODIMM. Max. up to 64 GB (Default: 8GB & Non- ECC supported)
Graphics	• Intel® UHD Graphics • GPU Graphics
BIOS	AMI UEFI BIOS
Watchdog	Software Programmable Supports 1~255 sec. System Reset
AI Accelerator	Supports 1x Hailo-8™ module through M.2 B-Key
TPM	TPM 2.0
Display	
Display Port	2x Dual Mode DisplayPort 1.4a Max Resolution 4096 x 2304 @60Hz
HDMI	1x HDMI 1.4b Max Resolution 4096 x 2304 @24Hz
Multiple Display	3x Independent Displays
Storage	
M.2 M-Key	1x M.2 M-key Type (2242/2280): • Support 1x PCIe x4 Gen 3 NVMe SSD From PCH (Default 128GB SSD) • Support B+M Key, AI/Storage Module (Pending)
Expansion	
M.2 B-Key	1x M.2 B-key (3042) • Support 1x Nano SIM Holder • Support 1x PCIe x1, 1x USB 3.2 Gen 2, 1x USB 2.0, 5G/4G/LTE Module
M.2 E-Key	1x M.2 E key (2230) • Support 1x PCIe x1, 1x USB 2.0; Support CNVi • Devices Supported: Intel® AX210 Wi-Fi 6E & BT-5.1 (vPro Supported)
PCIe	Optional: • 2x PCIe x8 or • 1x PCIe x16 (Support A2000 GPU)
Network Modules	Optional Through M.2 B-Key: • 5G/4G/LTE Module
I/O	
Audio	Line-out/Mic-in
COM	4x DB9 COM1: RS232/422/485 COM2: RS232/422/485 COM3: RS485 COM4: RS485
DIO	8 in / 8 out (Isolated)
LAN	3x RJ45 (2.5GbE)
USB	8x USB 3.2 Gen 2 Type-A 2x USB 2.0 Type-A

Others

- 5x Antenna Holes
- 1x Power button
- 1x HD LED
- 1x Power LED
- 1x Default Industrial Fan

Operating System

Windows	Windows 10/11
Linux	Linux Kernel

Power

Power Adapter	Optional AC/DC 24V/9.2A, 220W for CPU and GPU Expansion
Power Mode	AT, ATX (Default ATX)
Power Supply Voltage	19~36VDC Default 24~36VDC for add GPU Card
Power Connector	4-pin Terminal Block

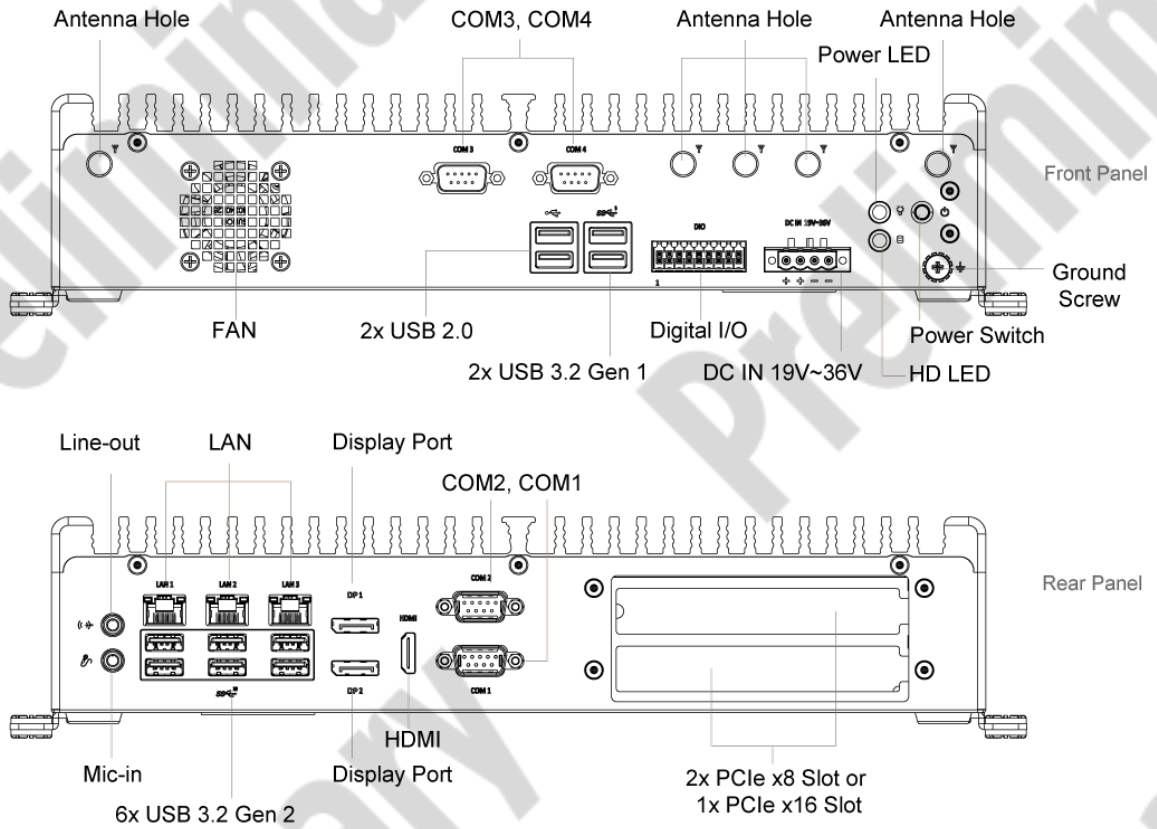
Environment

Operating Temperature	0°C to 50°C (35W CPU) Tested according to: 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)
Storage Temperature	-30°C to 85°C
Relative Humidity	10% to 95% (non-condensing)
Certification	EMC: • CE • FCC Class A (47 CFR part 15.109 and part 15.107) • ICES-003 • UKCA Green Product: • RoHS 3.0 (Directive 2015/863/EU) • REACH
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 514.7 Procedure I Package Drop Test: ISTA 2A

Physical

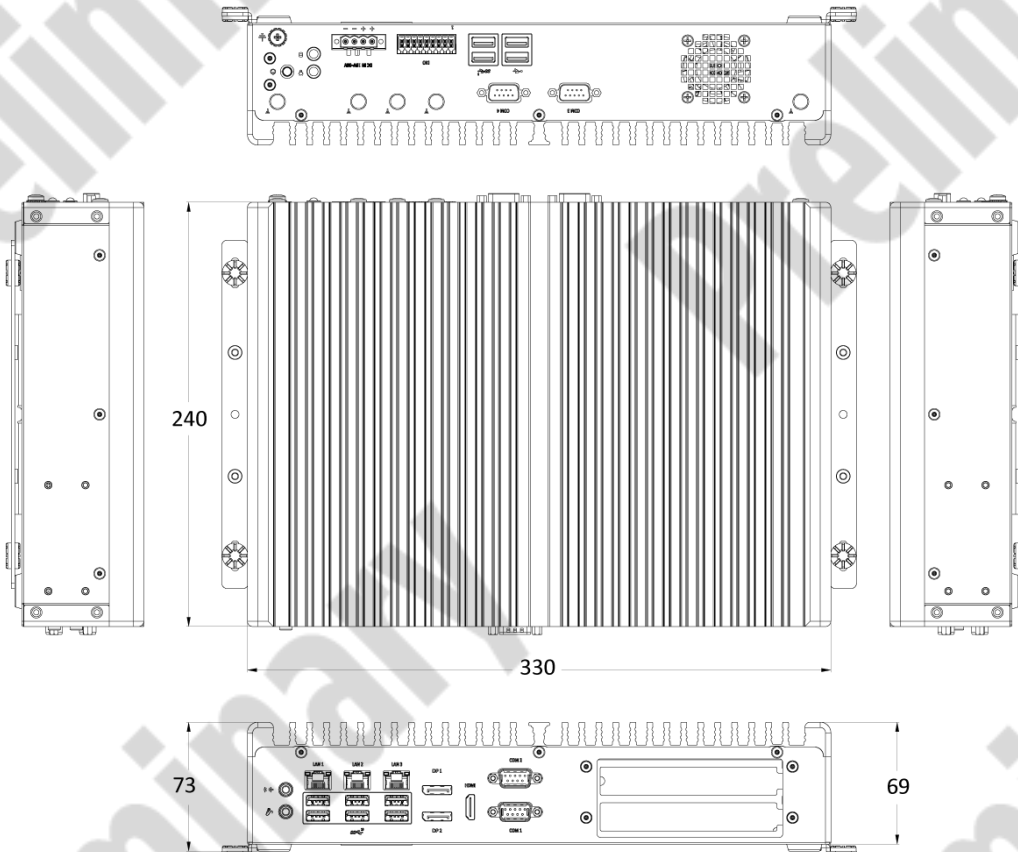
Dimensions (WxDxH)	330 x 240 x 69mm
Construction	Extruded Aluminum with Heavy Duty Metal
Mounting Options	Wall Mounting

External I/O Mechanical Layout



Dimension

Unit: mm



Available Models

Model No.	Description
BCO-6000-RPL-P	Industrial Computer with 12th/13th Gen Intel® IoTG Processor, 2x DP, 1x HDMI, 2x COM, 3x LAN, 1x PCIe x16 (or 2x PCIe x8) Expansion

Optional Accessories

Model No.	Description
1-E09A22102	Adapter AC/DC 24V 9.2A 220W with 3pin Terminal Block Plug 5.0mm Pitch
SFICBL022	Power Cord, 3-pin US Type, 180cm
1-TPCD00002	Power Cord, European Type, 180cm
1-TPCD00001	Power Cord, 3-pin UK Type, 180cm

Packing List

1x BCO-6000-RPL
 1x Wall Mount Kit
 1x Accessory Kit

Compatible GPU AVL

Model Name	RAM	CUDA Cores	TDP	Display	Interface	Active Cooling	Slots
NVIDIA RTX A2000	12G	3328	70	4x mDP	PCIe 4.0 x16	Yes	2

Exports And Tariff Codes

ECCN	5A992.c
HTS	8471.50.0150
ScheduleB	84.71