



SMALL FORM FACTOR COMPUTER

BCO-3000-RPL

Small Form Factor Computer with 12th/13th Gen Intel® IoTG Processor, 2x DP, 1x HDMI, 2x COM, 3x LAN



Features

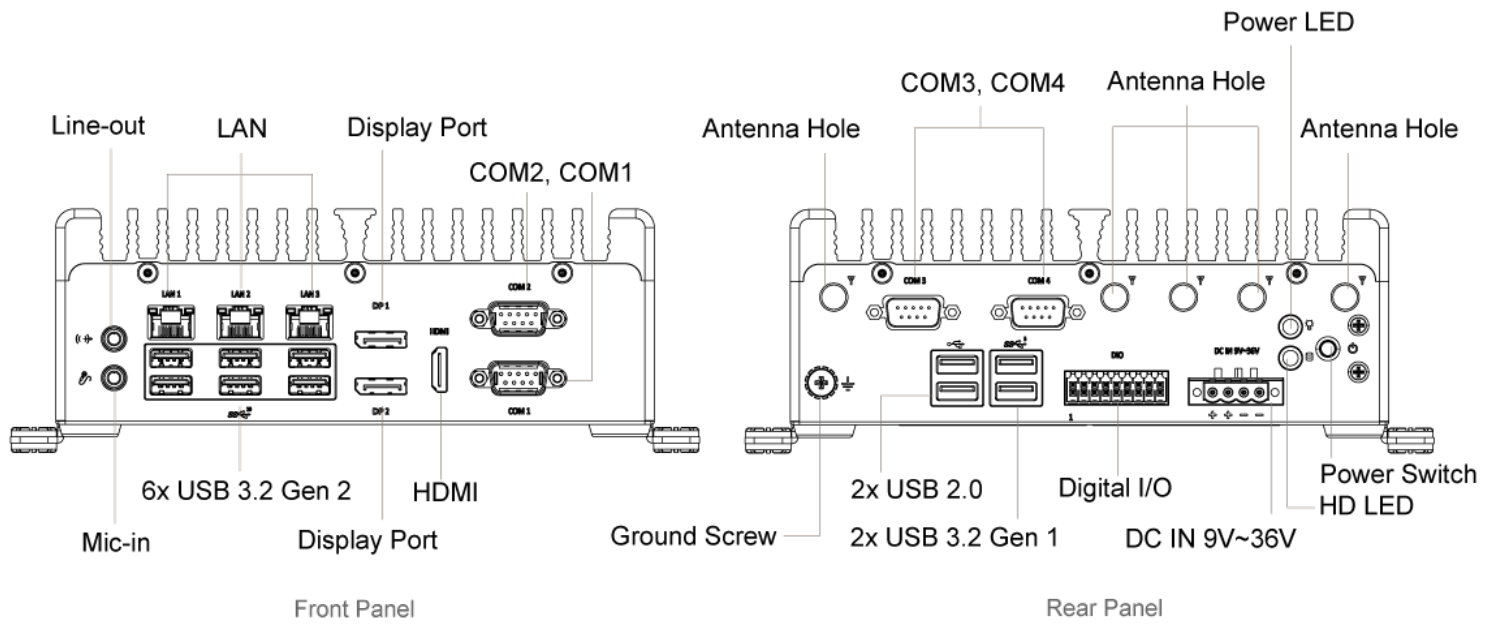
- Support 12th/13th Gen Intel® IoTG Processor Core i9/i7/i5/i3, Pentium, Celeron (35W only)
- 2x DDR4 SODIMM. Max. up to 64GB (Default: 8GB)
- 2x Display Port, 1x HDMI, Triple Independent Display
- 3x 2.5GbE LAN
- 1x M.2 M-Key (Default: 128GB SSD), 1x M.2 E-key, 1x M.2 B-key
- 4x COM, 6x USB 3.2 Gen 2, 2x USB 3.2 Gen 1, 2x USB 2.0
- 9 to 36VDC Wide Range Power Input Supporting AT/ATX Mode
- Wide Operating Temperature 0°C to 50°C (35W CPU)
- TPM 2.0 Supported
- CE, FCC Class A, UL 62368 Ed. 3

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® I226LM PCIe 2.5GbE LAN Intel® I226V PCIe 2.5GbE LAN Intel® I226V PCIe 2.5GbE LAN
Audio Codec	Realtek ALC897
System Memory	2x DDR4 3200MT/s SODIMM. Max. up to 64 GB (Default: 8GB)
Graphics	Intel® UHD 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
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)
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: RS232 COM4: RS232
DIO	8 in / 8 out (Isolated)
LAN	3x RJ45 (2.5GbE)
USB	6x USB 3.2 Gen2 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

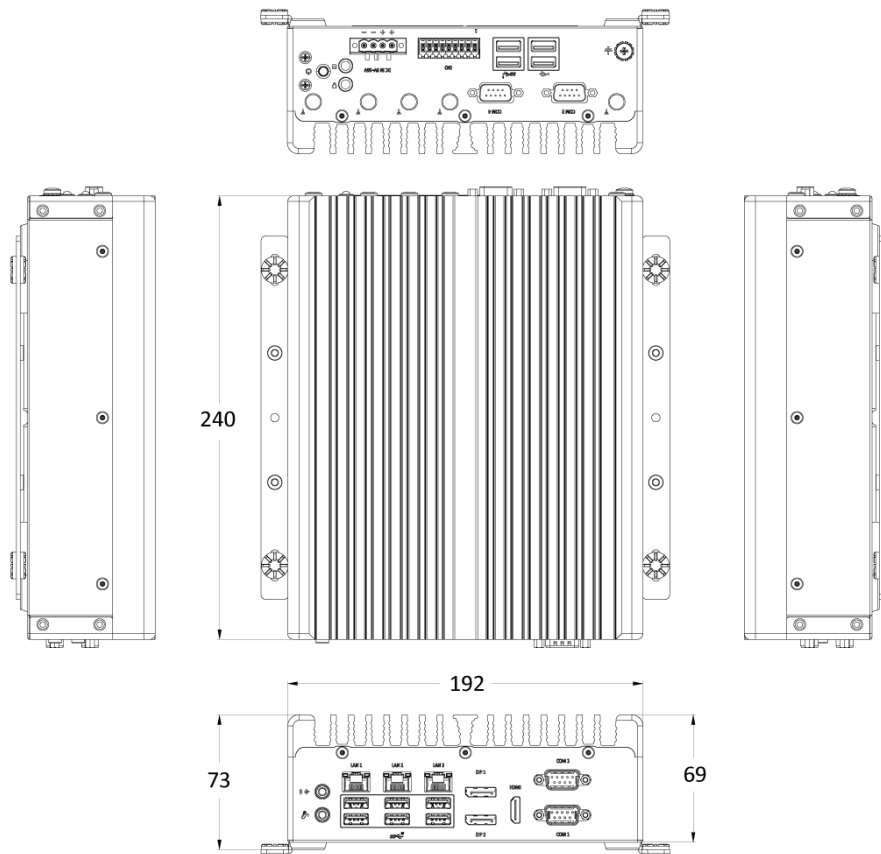
Power	
Power Adapter	Optional AC/DC 24V/5A, 120W
Power Mode	AT, ATX (Default ATX)
Power Supply Voltage	9~36VDC
Power Connector	4-pin Terminal Block
Environment	
Operating Temperature	0°C to 50°C (35W CPU)
Storage Temperature	-30°C to 85°C
Relative Humidity	10% to 95% (non-condensing)
Certification	UL 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 240 x 69mm
Construction	Extruded Aluminum with Heavy Duty Metal
Mounting Options	Wall Mounting DIN-Rail Mounting (Optional)

External I/O Mechanical Layout



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 (35W 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-3000-RPL-P	Small Form Factor Computer with 12th/13th Gen Intel® IoTG Processor, 2x DP, 1x HDMI, 2x COM, 3x LAN

Optional Accessories

Model No.	Description
1-E09A12002	Adapter AC/DC 24V 5A 120W 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-3000-RPL SMALL FORM FACTOR COMPUTER
1x Wall Mount Kit
1x Accessory Kit

Exports And Tariff Codes

ECCN	5A992.c
HTS	8471.50.0150
ScheduleB	84.71

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