

BCO-3000-RPL

Small Form Factor Computer with Intel Raptor Lake-S/ Alder Lake-S[®] CPU, 3x DP, 2x COM



Features

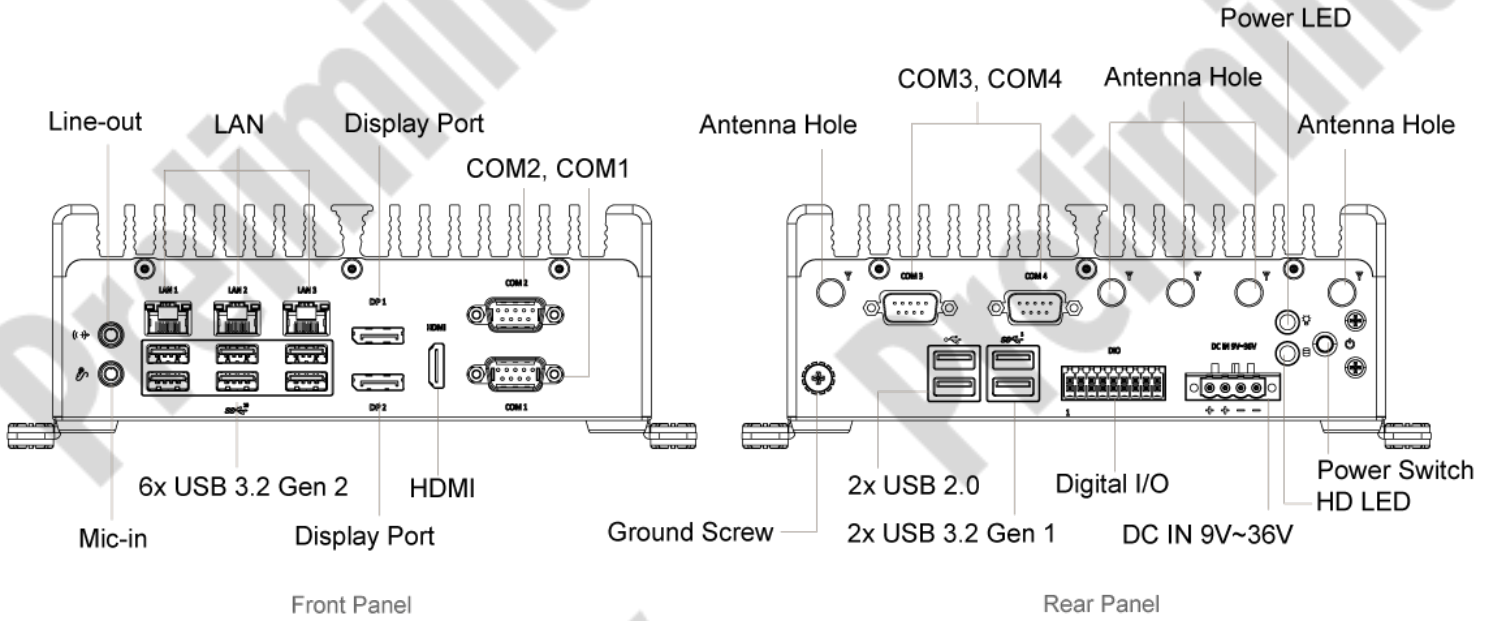
- Support Intel[®] IOTG Raptor Lake-S/ Alder Lake-S Processor Core i9/i7/i5/i3, Pentium, Celeron (35W only)
- DDR4 SODIMM. Max. up to 64GB (Default: 8GB)
- Triple Independent Display by 2x Display Port, 1x HDMI
- Intel[®] I225-V/ I225LM/ I225LV 2.5GbE LAN
- 1x M.2 (M Key (Default: 128GB SSD)), 1x M.2 (E key), 1x M.2 (B key)
- 4x COM, 6x USB 3.2 Gen2, 2x USB 3.2 Gen1, 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

Specifications

| System | |
|------------------|---|
| Processor | Intel [®] IOTG Raptor Lake-S Processor Core i9/i7/i5/i3, Pentium, Celeron (35W only) Intel [®] IOTG Alder Lake-S Processor Core 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) |
| BIOS | AMI UEFI BIOS |
| Watchdog | Software Programmable Supports 1~255 sec. System Reset |
| 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 | 1x M.2 M key Type (2242/2280): • Support PCIe x4 Gen3 NVMe SSD • PCIe x4 Gen3 signal from PCH • Support B+M Key, AI/Storage Module • Default: 128GB SSD |
| Expansion | |
| M2 | 1x M.2 E key Type: 2230 (Support PCIe x1 + USB 2.0; Support CNVi) Devices Supported: Intel [®] AX210 Wi-Fi 6E & BT-5.1 (vPro Supported) |
| | 1x M.2 B key Type: 3042 with Nano SIM Holder (Support PCIe x1 + USB 3.2 Gen 2 x1 + USB 2.0, 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 | 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 |

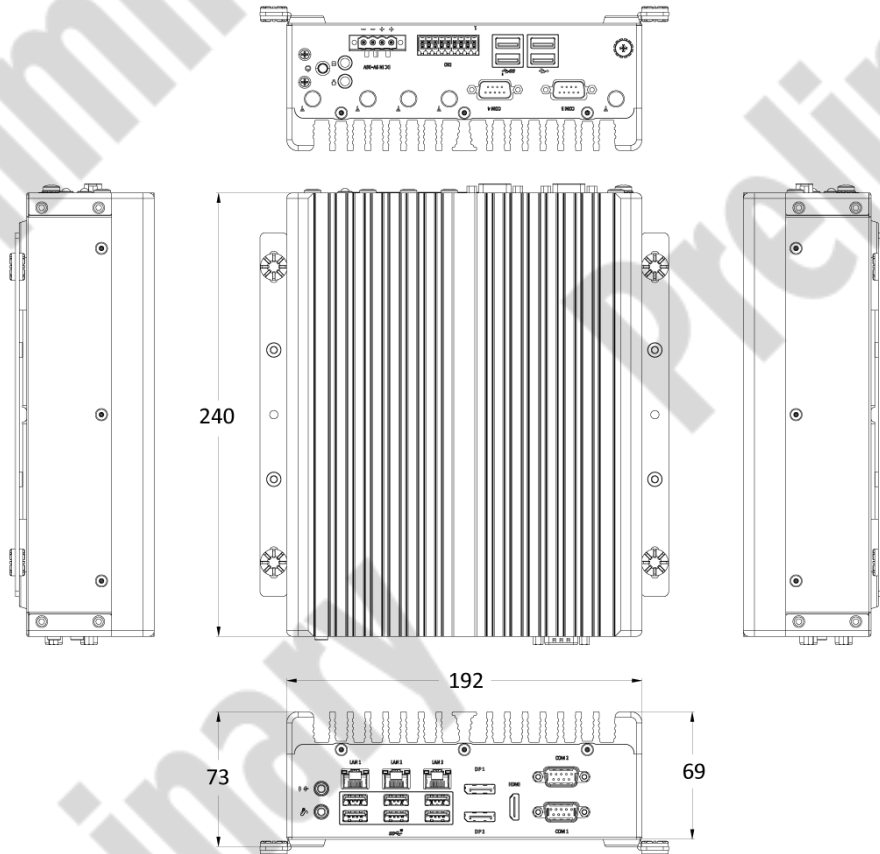
| Power Mode | AT, ATX (Default ATX) |
|-----------------------|---|
| Power Supply Voltage | 9~36VDC |
| Power Connector | 4-pin Terminal Block |
| Environment | |
| Operating Temperature | 0°C to 50°C (35W CPU) Tested according to: IEC60068-2-1:2007 (Cold test procedure) IEC60068-2-2:2007 (Dry heat 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) | 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



Available Models

| Model No. | Description |
|--------------|---|
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Optional Accessories

| Model No. | Description |
|-------------|---|
| 1-E09A12002 | Adapter AC/DC 12V 5A 120W 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 |
| 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