



## FANLESS MINI COMPUTER

# BCO-1010U

Fanless Mini Computer with Intel® Celeron® J1900 Processor, 2x COM, 2x LAN, 8x USB, 1x 2.5" SATA HDD Bay

### Features

- Intel® Celeron® processor J1900, up to 2.0GHz
- 1x 204-pin DDR3L SODIMM. max up to 8GB
- Dual independent display supported by 1x DVI-I
- 2x Intel® GbE supporting Wake-on-LAN and PXE
- 1x Internal 2.5" SATA HDD Bay, 1x mSATA
- 2x full-size mini PCIe for communication or expansion modules, 1x SIM socket
- 2x RS-232/422/485, 1x USB 3.0, 7x USB 2.0
- 9 to 30VDC wide range power input supporting AT/ATX mode
- -20°C to 50°C extended operating temperature



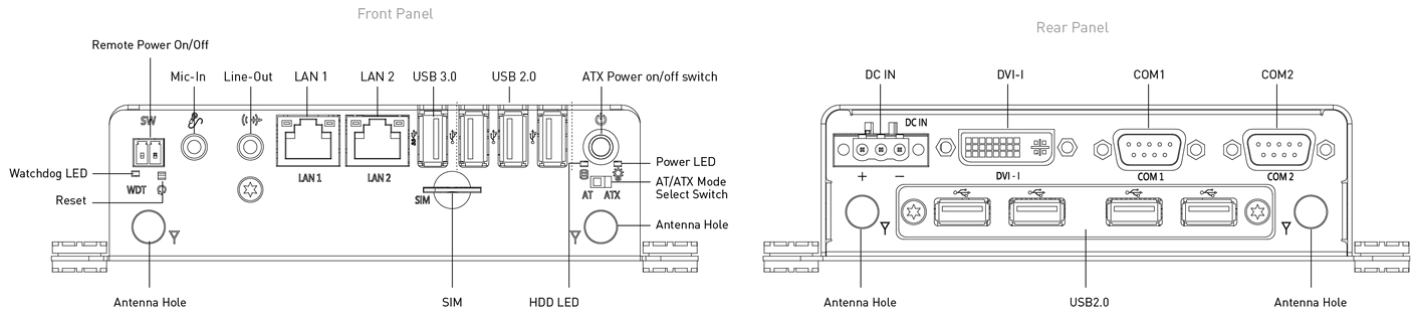
### Specifications

| System                |                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------|
| Processor             | Intel® Celeron® Processor J1900, Quad Core, 2MB Cache, 2.0 GHz                                                   |
| System Chipset        | SoC integrated                                                                                                   |
| LAN Chipset           | GbE1: Intel® I210-AT<br>(Support Wake-on-LAN and PXE)                                                            |
| Audio Codec           | Realtek ALC888S                                                                                                  |
| System Memory         | 1x 204-Pin DDR3L 1066/1333MHz SODIMM.<br>Max up to 8GB                                                           |
| BIOS                  | AMI 64Mbit SPI BIOS                                                                                              |
| Watchdog              | Software Programmable Supports 1~255 Sec. System Reset                                                           |
| Display               |                                                                                                                  |
| DVI                   | 1x DVI-I                                                                                                         |
| Multiple Display      | Dual Display                                                                                                     |
| VGA                   | Yes (by optional split cable)                                                                                    |
| Storage               |                                                                                                                  |
| mSATA                 | 1x mSATA (shared by 1x Mini PCIe)                                                                                |
| SIM Socket            | 1x External SIM socket                                                                                           |
| SSD/HDD               | 1x Internal 2.5" SATA HDD Bay                                                                                    |
| Expansion             |                                                                                                                  |
| Mini PCIe             | 1x Full-size Mini PCIe Socket with USIM Socket (PCIe + USB + SATA)<br>1x Full-size Mini PCIe Socket (PCIe + USB) |
| I/O                   |                                                                                                                  |
| Audio                 | 1x Mic-in, 1x Line-out                                                                                           |
| COM                   | 2x RS-232/422/485                                                                                                |
| LAN                   | 2x RJ45                                                                                                          |
| USB                   | 1x USB 3.0, 7x USB 2.0                                                                                           |
| Others                | 4x WiFi Antenna Holes<br>1x Power Switch,<br>1x AT/ATX Switch                                                    |
| Operating System      |                                                                                                                  |
| Windows               | Windows 10, Windows 7, WES7                                                                                      |
| Linux                 | Linux kernel 3.X                                                                                                 |
| Power                 |                                                                                                                  |
| Power Adapter         | Optional AC/DC 12V/5A, 60W                                                                                       |
| Power Mode            | AT, ATX                                                                                                          |
| Power Supply Voltage  | 9~30 VDC                                                                                                         |
| Power Connector       | 3-pin Terminal Block                                                                                             |
| Power Protection      | Over Voltage Protection (OVP)                                                                                    |
| Environment           |                                                                                                                  |
| Operating Temperature | -20 °C to 50 °C                                                                                                  |
| Storage Temperature   | -30 °C to 70 °C                                                                                                  |
| Relative Humidity     | 10% to 95% (non-condensing)                                                                                      |

| Vibration        | with SSD: 5 Grms, 5 - 500 Hz, 0.5 hr/axis<br>with HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis |
|------------------|----------------------------------------------------------------------------------------|
| Shock            | with SSD: 50G, half sine, 11ms                                                         |
| Physical         |                                                                                        |
| Dimensions       | 142 (W) x 101 (D) x 41.5 (H) mm                                                        |
| Weights          | 0.62kg                                                                                 |
| Construction     | Fanless Design                                                                         |
| Mounting Options | Wall Mounting                                                                          |

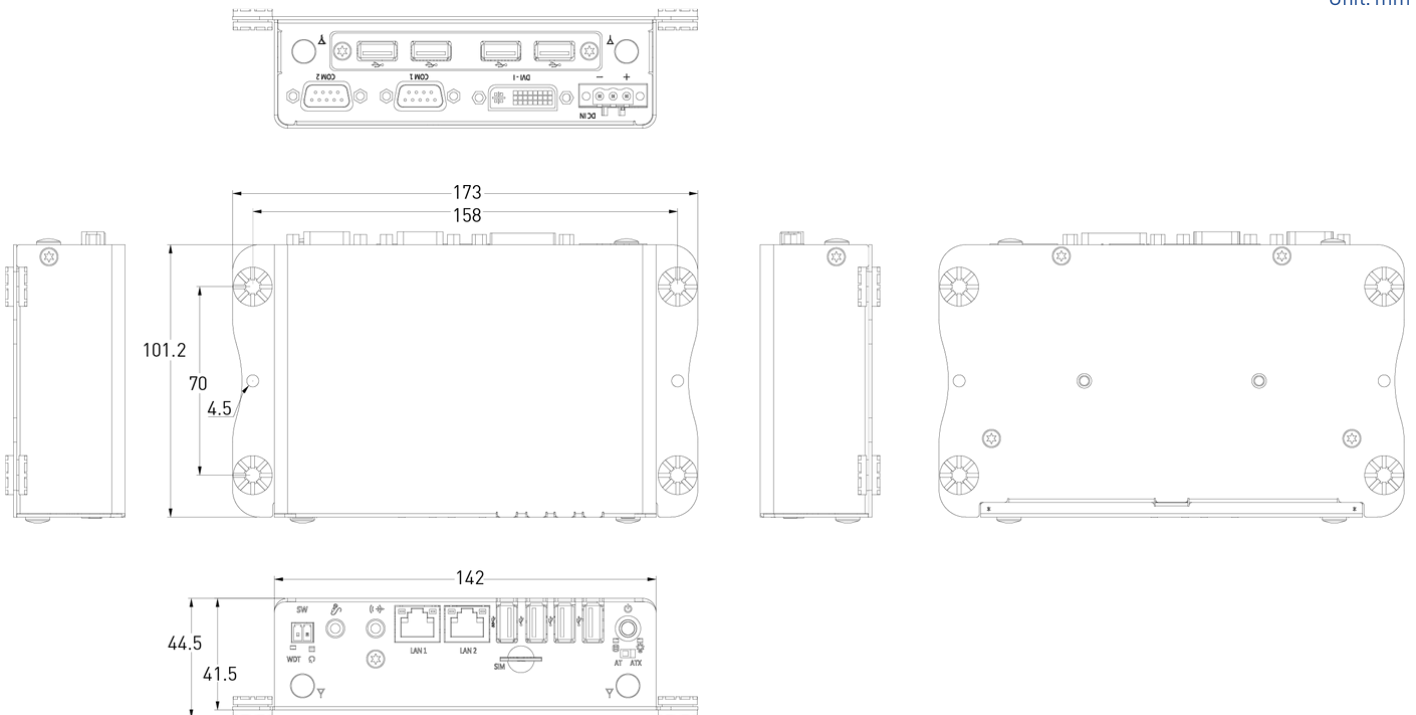
\* All specifications and photos are subject to change without notice.

## External I/O Mechanical Layout



## Dimension

Unit: mm





## BCO-1010U

### Available Models

| Model No.       | Description                                                                                                      |
|-----------------|------------------------------------------------------------------------------------------------------------------|
| BCO-1010U-J1900 | Basic Fanless Embedded System with Intel® Celeron® J1900 Processor, 2x COM, 2x LAN, 8x USB, 1x 2.5" SATA HDD Bay |

### Optional Accessories

| Model No.   | Description                                                        |
|-------------|--------------------------------------------------------------------|
| 1-E09A06008 | Adapter AC/DC 12V 5A 60W with 3pin Terminal Block Plug 5.0mm Pitch |
| 1-TPCD00005 | Power Cord, 3-pin US Type, 180cm                                   |
| 1-TPCD00002 | Power Cord, European Type                                          |
| 1-TPCD00001 | Power Cord, 3-pin UK Type, 180cm                                   |
| 3-DINR-0003 | DIN-Rail Mount Kit                                                 |

### Packing List

- 1x BCO-1010U Series Embedded System
- 1x Accessory Kit
- 1x DVI to VGA Adapter



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