BCO-1020D

Basic Fanless Embedded System with Intel® Celeron® J1900 Processor,
1x DVI-I, 6xCOM, 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

- 1x Intel® GbE supporting Wake-on-LAN and PXE

- 1x 2.5" SATA HDD bay, 1x mSATA

- 2x full-size mini PCIe for communication or expansion modules,
  1x SIM socket

- 6x RS-232/422/485, 1x USB 3.0, 1x USB 2.0

- 9 to 30VDC wide range power input supporting AT/ATX mode

- -20°C to 50°C extended operating temperature

Fanless Embedded Systems | BCO | RCO | ACO | VCO

Industrial Display Systems

SPECIFICATIONS

SYSTEM

Processor	Intel® Celeron® Processor J1900, Quad Core, 2MB Cache, 2.0 GHz
System Chipset	SoC integrated
LAN Chipset	GbE1: Intel® I210-AT (Support Wake-on-LAN and PXE)
Audio Codec	Realtek ALC888S
System Memory	1x 204-Pin DDR3L 1066/1333MHz SODIMM. Max. up to 8 GB
BIOS	AMI 64Mbit SPI BIOS
Watchdog	Software Programmable Supports 1~255 Sec. System Reset

DISPLAY

VGA	Yes (by optional split cable)
DVI	1x DVI-I
Multiple Display	Dual Display

STORAGE

SSD/HDD	1x Internal 2.5" SATA HDD Bay
mSATA	1x mSATA (shared by 1x Mini PCIe)
SIM Socket	1x External SIM socket

EXPANSION

Mini PCI Express	1x Full-size Mini PCIe Socket with USIM Socket (PCIe + USB + SATA) 1x Full-size Mini PCIe Socket (PCIe + USB)

I/O

COM	2x RS-232/422/485 4x RS-232/422/485 (module)
USB	1x USB 3.0, 1x USB 2.0
LAN	1x RJ45
Audio	1x Mic-in, 1x Line-out
Others	4x WiFi Antenna Holes 1x Power Switch, 1x AT/ATX Switch

OPERATING SYSTEM

Windows	Windows 10, Windows 8.1, Windows 7, WES7
Linux	Linux kernel 3.X

POWER

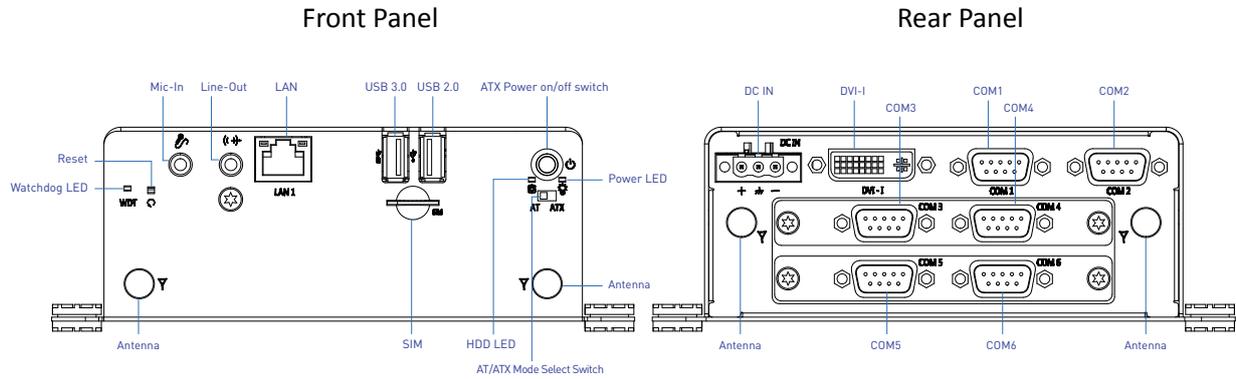|	
Power Mode	AT, ATX
Power Supply Voltage	9~30VDC
Power Connector	3-pin Terminal Block
Power Adaptor	Optional AC/DC 12V/5A, 60W
Power Protection	OVP (Over Voltage Protection)

ENVIRONMENT

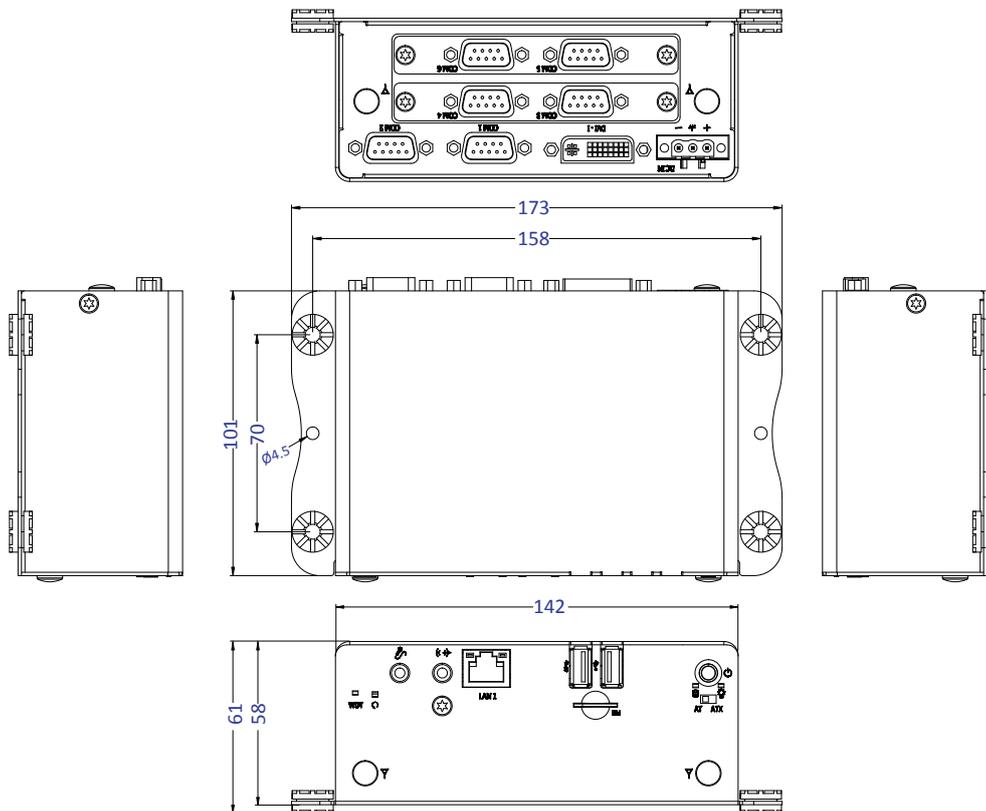|	
Operating Temp.	-20°C to 50°C
Storage Temp.	-30°C to 70°C
Relative Humidity	10% to 95% (non-condensing)
Vibration	With SSD: 5 Grms, 5 - 500 Hz, 0.5 hr/axis With HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis
Shock	With SSD: 50G, half sine, 11ms
Standards / Certification	CE, FCC Class A

PHYSICAL

Construction	Fanless Design
Dimension	142 (W) x 101 (D) x 58 (H) mm
Weight	TBC
Mounting	Wall Mounting

EXTERNAL I/O MECHANICAL LAYOUT

Front Panel

Mic-In | Line-Out | LAN | USB 3.0 | USB 2.0 | ATX Power on/off switch
Reset
Watchdog LED
Power LED
Antenna
Antenna | SIM | HDD LED
AT/ATX Mode Select Switch

Rear Panel

DC IN | DVI-I | COM3 | COM1 | COM4 | COM2
Antenna | COM5 | COM6 | Antenna

DIMENSION

Unit: mm

173
158
101
70
Φ4.5
142
61
58

AVAILABLE MODELS

MODEL NO.	DESCRIPTION
BCO-1020D-J1900	Basic Fanless Embedded System with Intel Celeron J1900 Processor, 1x DVI-I, 6x COM, 1x 2.5" SATA HDD Bay

OPTIONAL ACCESSORIES

MODEL NO.	DESCRIPTION
1-E09A06002	Adapter AC/DC 12V 5A 60W with 3pin Terminal Block Plug 5.0mm Pitch
SFICBL022	Power Cord, 3-pin US Type, 180cm
1-TPCD00002	Power Cord, European Type
1-TPCD00001	Power Cord, 3-pin UK Type, 180cm

PACKING LIST

- 1x BCO-1000 Series Embedded System
- 1x Utility DVD Driver
- 1x Accessory Kit
- 1x DVI to VGA Adapter

All specifications and photos are subject to change without notice.