Fanless Mini Computer with 8th Gen Intel® Core™ Mobile-U And Celeron® Processor, 2x LAN, 4x USB 3.2

Features
• Support 8th Gen. Intel® Core™ i5, i3 & Intel® Celeron® Processor
• 1x 260-pin DDR4 2400 SO-DIMM. Max. up to 32GB
• 2x Intel® GbE (Support Wake-on-LAN and PXE)
• Dual Independent Display by 1x DisplayPort and HDMI (Optional)
• 2x Mini PCIe (Gen3) w/ one SIM slot supports
• 4x USB 3.2 Gen 2 (10Gbps), 4x RS-232/422/485 (w/ 2x Internal)
• 1x Internal 2.5" SATA HDD Bay and 1x mSATA
• Watchdog timer 1-225s system reset
• TPM 2.0 Supported
• UL Listed

Specifications

System
Processor
Support 8th Gen. Intel® WL-UE Processor (15W TDP)
Intel® Core™ i5-8365UE Processor 6M Cache, up to 4.10 GHz
Intel® Core™ i3-8145UE Processor 4M Cache, up to 3.90 GHz
Intel® Celeron® Processor 4305UE 2M Cache, 2.00 GHz

System Chipset
SoC integrated

LAN Chipset
GbE: Intel® I219LM (Support Wake-on-LAN and PXE)
GbE: Intel® I210-IT (Support Wake-on-LAN and PXE)

Audio Codec
Realtek ALC888S HD Audio Codec

System Memory
1x 260-Pin DDR4 2400MHz SO-DIMM slot. Max 32 GB

Graphics
Intel® UHD Graphics 620 for Core series
Intel® UHD Graphics 610 for Celeron series

BIOS
AMI uEFI 256MB SPI flash

Watchdog
Software Programmable Supports 1-255 Sec. System Reset

TPM
TPM 2.0

Display
Display Port
1x DP Support 4096x 2304 Resolution @60Hz
HDMI
1x HDMI Support 4096 x 2304 resolution @24Hz (optional)

Multiple Display
Dual Display

Storage
mSATA
1x mSATA (Shared by 1x Mini PCIe Express)
SSD/HDD
1x Internal 2.5" SATA HDD Bay (support H=9.5mm)

Expansion
Mini PCIe
2x Full-size Mini PCIe (1x shared by 1x mSATA)

I/O
Audio
1x Mic-in, 1x Line-out

COM
2x RS-232/422/485
2x RS-232/422/485 (internal)

DIO
2x 4-bit DIO (4-in/4-out) with 2.0 Pitch Header

LAN
2x RJ45 GbE

Universal I/O Bracket
2x Universal I/O Bracket (By mini PCIe interface)

USB
4x USB 3.2 Gen 2 (10 Gbps)
2x USB 2.0 header (internal)

Others
5x WiFi Antenna Holes
1x 4-pin PWM smart fan
1x RTC battery by cable
1x Power LED, 1x HDD LED indicator

Operating System
Windows
Microsoft Windows 10 64-bit (RS5 or above)
Linux
Linux Kernel 5.x (Fedora 30 or above / Ubuntu 19.04 or above)

Power
Power Adapter
Optional AC/DC 12V/5A, 60W,
Optional AC/DC 12V/6.67A, 80W for PoE Module

Power Management
ACPI
Power Mode
AT, ATX 12V
Power Connector
3-pin Terminal Block
Power Protection
Reverse Polarity Protection (RPP)

Environment
Operating Temperature
-20 °C ~ 60 °C (15W CPU)
Storage Temperature
-30 °C ~ 85 °C
Relative Humidity
10% to 93% (non-condensing)
Certification
UL, CE, FCC Class A
Vibration
With SSD: 3 Grms, 5 - 500 Hz, 0.5 hr/axis
With HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis
Shock
With SSD: 20G, half sine, 11ms

Physical
Dimensions
140 (D) x 192 (W) x 61 (H) mm
Weights
1.4 Kg
Construction
Extruded Aluminum with Heavy Duty Metal
Mounting Options
Wall Mounting/DIN-Rail Mounting (Optional)

• This product has earned the UL Certified Mark.
• All specifications and photos are subject to change without notice.
External I/O Mechanical Layout

Dimension

Unit: mm
### Available Models

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCO-2000-WHL-4305UE-P</td>
<td>Fanless Mini Computer with Intel Celeron® 4305UE Processor, 2x LAN, 4x USB 3.2</td>
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<td>BCO-2000-WHL-8365UE-P</td>
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### Optional Accessories

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-E09A06008</td>
<td>Adapter AC/DC 12V 5A 60W with 3pin Terminal Block Plug 5.0mm Pitch</td>
</tr>
<tr>
<td>999993</td>
<td>Power Cord, 3-pin US Type, 180cm</td>
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<tr>
<td>1-TPC000002</td>
<td>Power Cord, European Type</td>
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<tr>
<td>1-TPC000001</td>
<td>Power Cord, 3-pin UK Type, 180cm</td>
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</tbody>
</table>

### Packing List
- 1x BCO-2000-WHL-U
- 1x Utility DVD Driver
- 1x Accessory Kit
- 1x DVI to VGA Adapter

### Exports And Tariff Codes

<table>
<thead>
<tr>
<th>ECCN</th>
<th>HTS</th>
<th>ScheduleB</th>
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<tr>
<td>5A992.c</td>
<td>8471.50.0150</td>
<td>84.71</td>
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