

FLEX-BX100-ULT5

8th Gen Intel® Whiskey Lake-U PoE PD Embedded System



Features

- » 8th Gen Intel® Whiskey Lake-U processors
- » Low power consumption and fanless design
- » Support IEEE 802.3 bt PoE PD (By optional PoE BT module: [GPOE-PD-BT01](#))
- » Support NVMe SSD and USB 3.2 GEN2 (10Gbps)

Specifications

| | |
|-----------------------------|---|
| Form factor | |
| SBC Form Factor | » CPU: |
| | 8th Generation Intel® Core™ i5-8365UE |
| | 8th Generation Intel® Celeron® 4305UE |
| | » Chipset: Intel® Whiskey Lake-U |
| | » System Memory: |
| | 2 x 260-pin DDR4 SO-DIMM, one 4 GB pre-installed (system max: 32GB) |
| | » Power: |
| | Input - DC Jack: 12 V DC |
| | Consumption: 12 V@3.5 A (Intel® Core™ i5-8365UE with 4 GB memory) |
| | Power Device (PD): follows IEEE 802.3bt (71W) |
| I/O Interface | |
| I/O Ports | 1 x HDMI™ |
| | 2 x PoE GbE LAN* (RJ-45) |
| | 1 x GbE LAN (RJ-45) |
| | 1 x RS-232/422/485 (DB-9, COM1) |
| | 1 x RS-232 (DB-9, COM2) |
| | 4 x USB 3.2 Gen 2 (10Gb/s) Type-A |
| | 1 x Line-out |
| Expansion Slots | |
| Expansion Slots | M.2 2230 A-Key(PCIe x1, USB 2.0; support Wi-Fi, BT) |
| | M.2 2280 M-Key(PCIe x4; support NVMe SSD) |
| System | |
| Cooling method / System Fan | Fanless |
| Drive Bays | 2.5" HDD/SSD SATA 3(6.0Gb/s) bay |
| Indicator&Buttons | |
| Buttons | 1 x Power button with LED indicator |
| | 1 x Reset button |
| | 1 x AT/ATX mode switch |
| | 1 x Clear CMOS button |
| Color | |
| Color | PANTONE 296 C |
| Dimensions | |
| Dimensions | 356.5x 222 x 44(mm) |
| Weight | |
| Weight | 2.8/5.5kg |
| Environment | |
| Operating Temperature | -10°C ~ 60°C (with air flow) |

| | |
|-------------|---|
| Humidity | 10% ~ 95% (non-condensing) |
| Reliability | Shock - 10G acceleration part to part (11ms) |
| | Vibration 5~17Hz, 0.1 double amplitude displacement 17~640Hz 1.5G acceleration peak to peak |
| Safety/EMC | CE/FCC |

Ordering Information

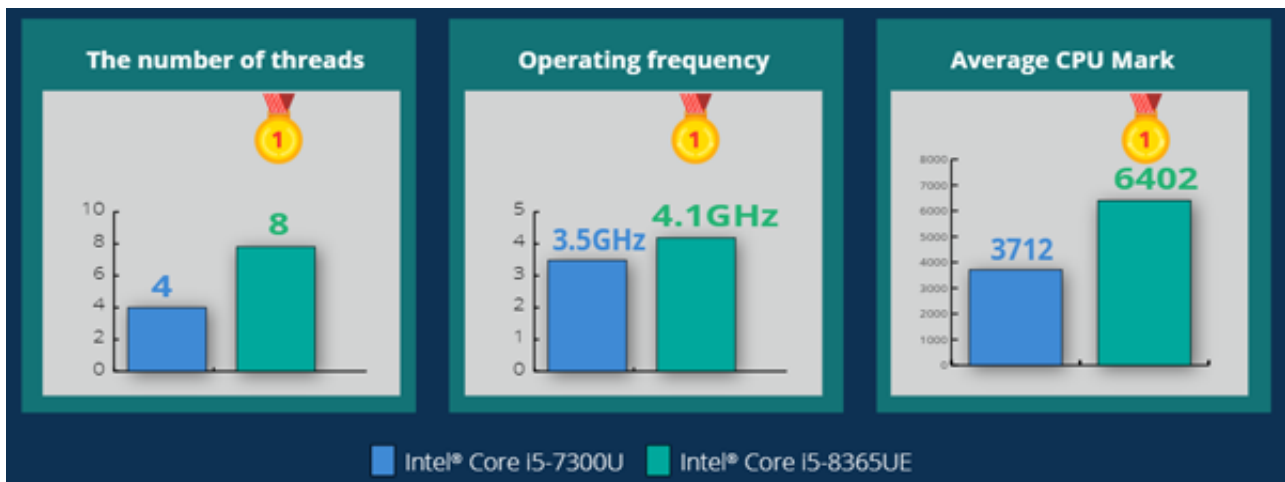
| | |
|--------------------------|---|
| FLEX-BX100-ULT5-C/4G-R10 | Fanless embedded system with Intel® 14nm 8th Whiskey Lake Celeron® R 4305UE (2M Cache, 2.0 GHz) TDP 15W on-board Processor (ULT), 4GB DDR4 RAM x1, 12VDC input, R10 |
|--------------------------|---|

Packing List

| | |
|-----------------------|---------------------------------------|
| 1x FLEX-BX100-ULT5 PC | 1x Power adapter |
| 1x Power cord | 4x Screws (M3*4) for HDD installation |

8th Gen Quad-core High-speed Processing and Transmission

IEI's FLEX-BX100 industrial box PC features an 8th Gen Intel® Core™ i5- 8365UE processor with blazing-fast performance, four USB 3.2 Gen 2 ports and ultra-thin design, which can meet the demand of high-speed data processing and transmission, and can also suit into various environment with no space limit.



IEEE 802.3 bt Standard PoE PD box PC

The FLEX-BX-100 can be optionally equipped with an IEEE802.3af/at/bt-compliant GPOE-PD-BT01-R10 card for connecting to an IEEE802.3bt switch to operate as a PoE Powered Device (PD).



IEEE802.3at Load-sharing

Customers who are unable to upgrade their PoE Switch [PSE] to IEEE802.3bt standard can upgrade the FLEX-BX-100 box PC by simply installing IEI's GPOE-PD-AT01 module, and power the device with two IEEE802.3at standard PSE ports.

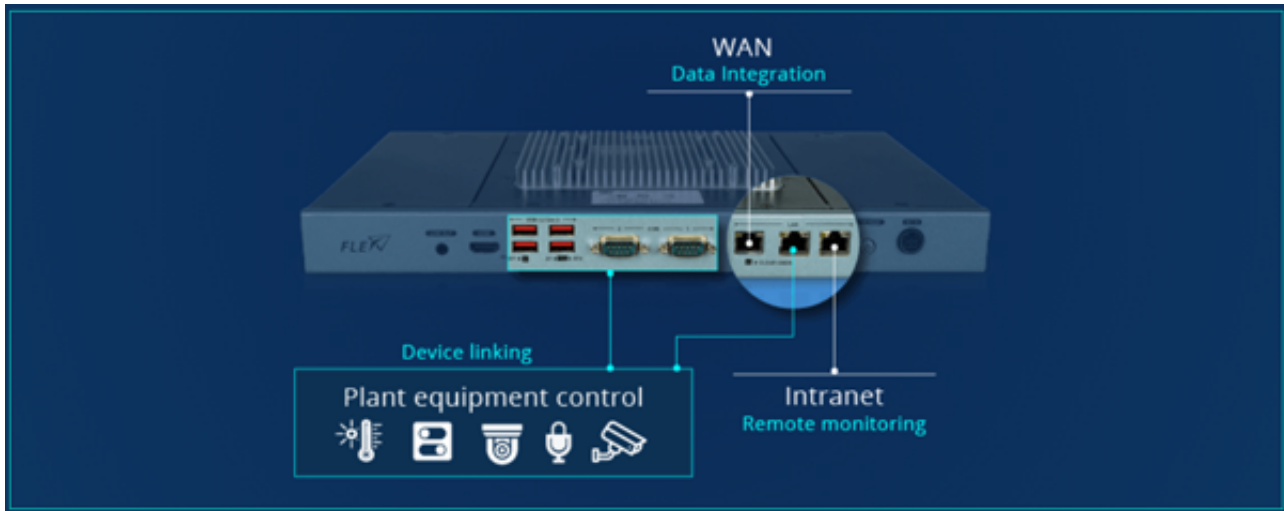


Silent Fanless System & Fanless Design



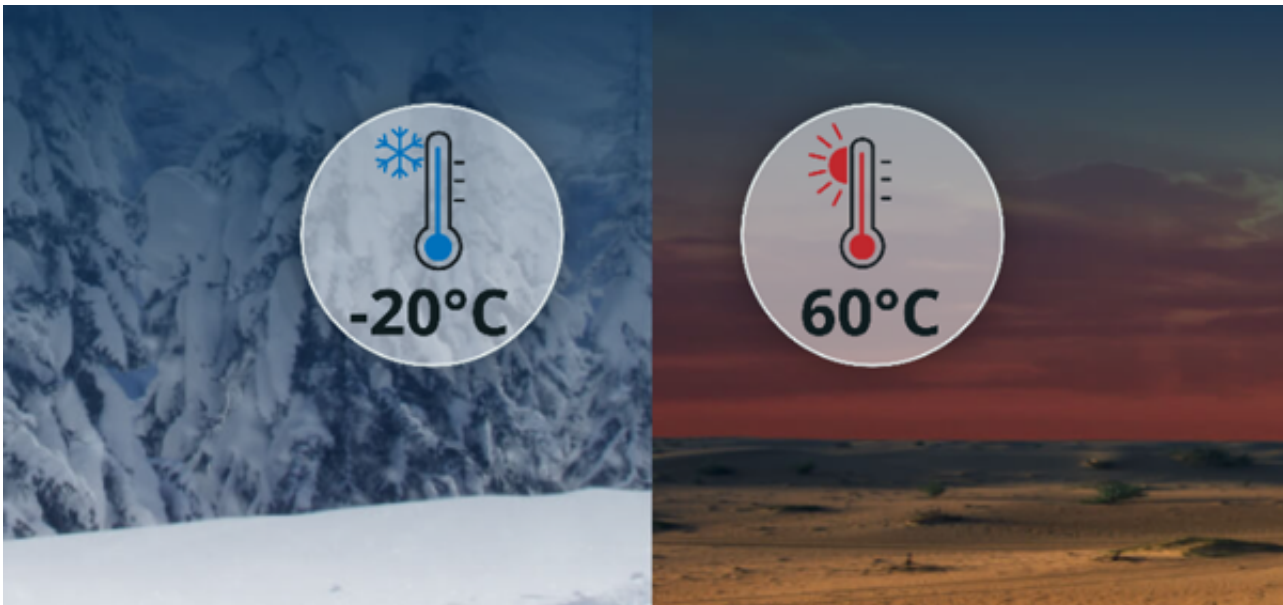
Application

Triple GbE ports, creating a networked industrial control system environment



Suitable for Semi-outdoor Environment

Wide Temperature (-20°C ~60°C)



Easy-access HDD and PoE PD module

