

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

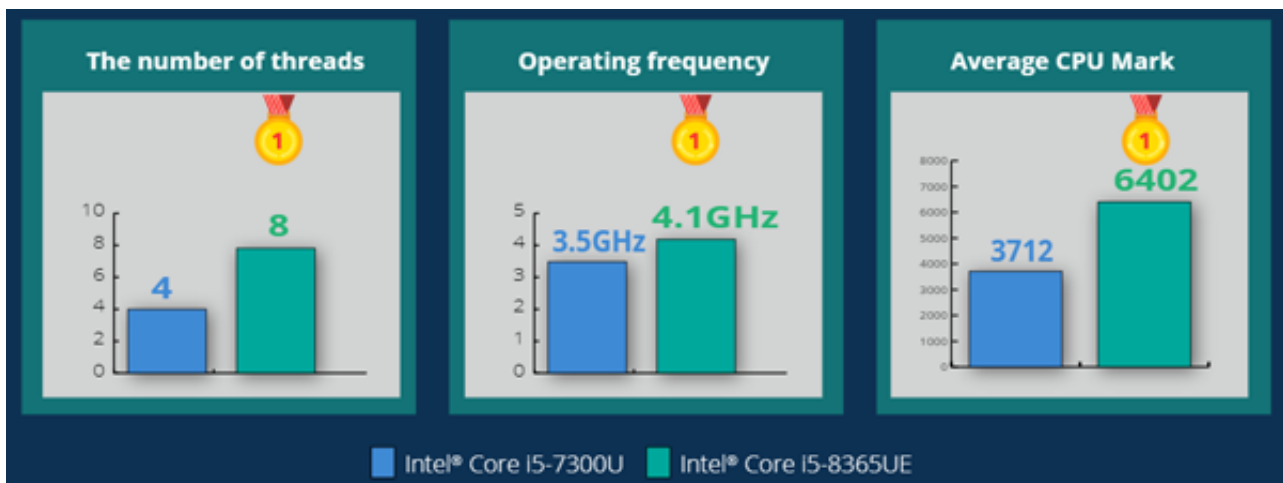
FLEX-BX100-ULT5-C/4G-R10	Fanless embedded system with Intel® 14nm 8th Whiskey Lake Celeron® 4305UE (2M Cache, 2.0 GHz) TDP 15W on-board Processor (ULT), 4GB DDR4 RAM x1, 12VDC input, R10
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Packing List

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.

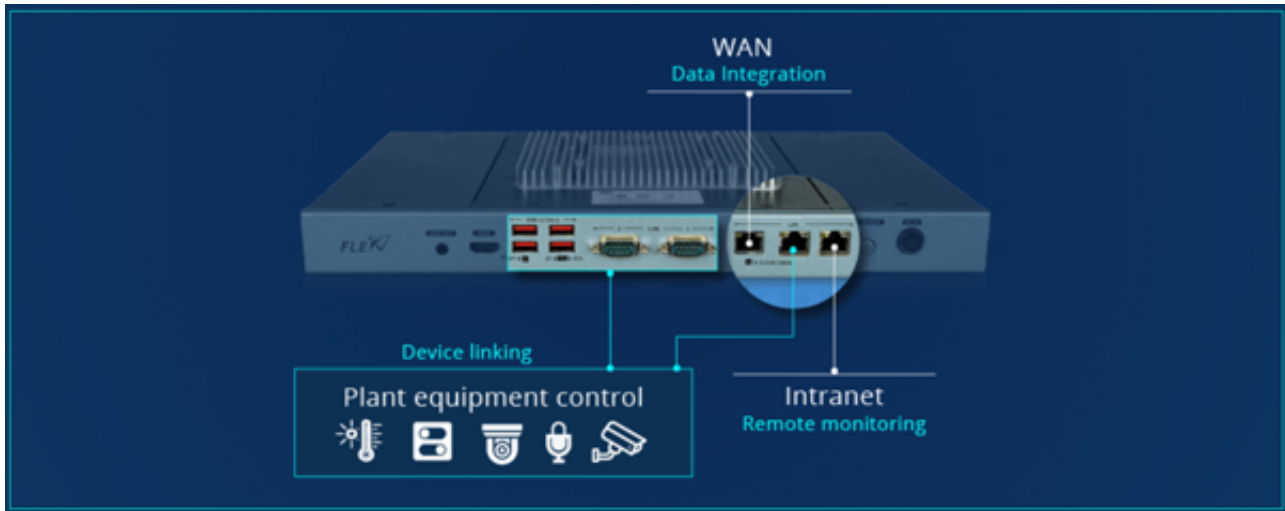


Silent Fanless System & Fanless Design



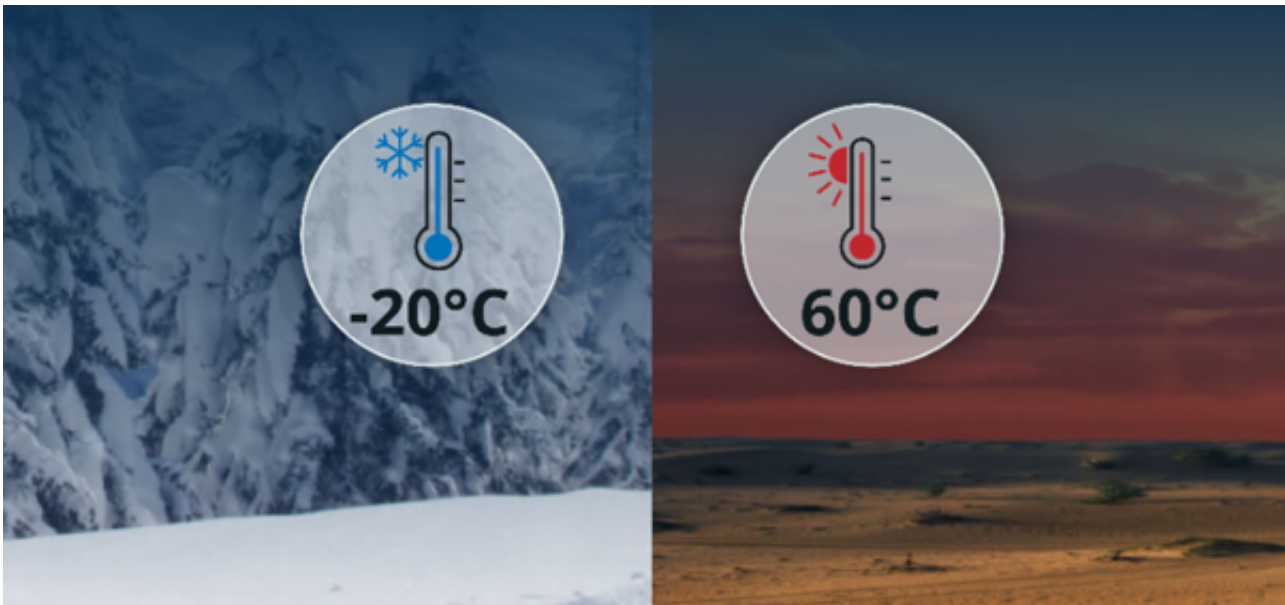
Application

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

