



# BPC-7430

Fanless Embedded Box PC with Intel® Celeron® Processor J1900 and 4 Slot PCI Expansion

Arestech's BPC-7430 is an exceptional fanless expandable embedded computer with configurable PCI slots. It is designed to provide a reliable platform for a wide variety of applications by accepting standard PCI cards. The BPC-7430 can operate in -20 to 60° C temperatures and its cableless structure provides additional durability for long-term usage. Featuring an Intel® Celeron® Bay Trail D J1900 2.0 GHz processor, the BPC-7430 delivers exceptional performance at low power. The PCI slots enable integration of off-the-shelf PCI cards for a configurable application platform. Generic I/O interfaces, such as Gigabit Ethernet, COM, and USB are also provided for connecting devices. Arestech's BPC-7430 is the perfect combination of configurability, reliability, durability, and compactness. Optional, isolated COM ports and digital I/O connectors are available for even greater flexibility. With the BPC-7430, creating your rugged application system has never been easier.

## Features

- Expandable Fanless Box PC, Intel® Celeron® J1900 (2.0 GHz)
- One-touch System Recovery Button, Remote Power Switch
- 2 GbE, 4 USB 3.0, 4 COM, 1 VGA, 1 HDMI / DP, 2 Internal USB 2.0
- 2 Swappable HDD (RAID Function), Slim DVD ROM Supported
- 4 PCI / PCIe Expansion Slots, Isolated COM Port, Isolated DIO
- 9-36 V DC Power Input, -20~60° C Operating Temperature

## Applications

- Embedded Control Systems
- Automatic Optical Inspection (AOI)
- Warehouse Management
- Machine Automation

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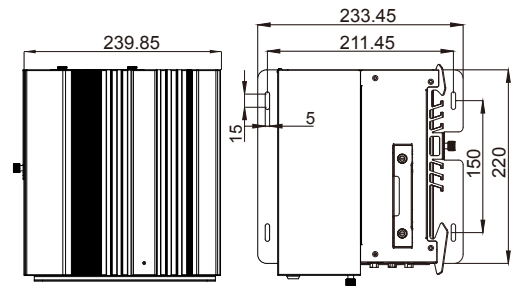
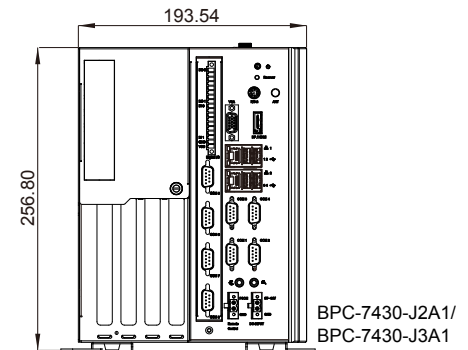
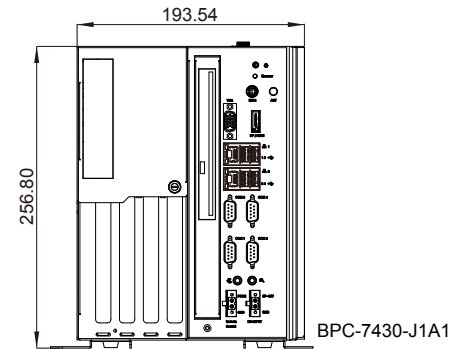
Fanless Embedded Box PC with Intel® Celeron® Processor J1900 and 4 Slot PCI Expansion



## Specifications

Model		BPC-7430-J1A1	BPC-7430-J2A1	BPC-7430-J3A1
Processor System	CPU	Intel® Celeron® Processor J1900		
	Frequency	2.0 GHz / 2.42 GHz (Boost), 4 Cores / 4 Threads		
	L2 Cache	2 MB		
	System Chipset	N/A		
	BIOS	AMI UEFI BIOS at 64 Mb		
Memory	Technology	DDR3L 1333 MHz		
	Max. Capacity	8 GB		
	Socket	1, 204-pin SO-DIMM		
Display	Graphics Engine	Intel® HD Graphics (Bay Trail) with 688-854 MHz Frequency		
	VGA	UXGA 1600 x 1200 at 60 Hz		
	HDMI / DP	HDMI / DP (Auto Detect), 1080p at 60 Hz		
	Dual Display	HDMI / DP + VGA		
I/O Interface	USB	4 USB 3.0 (Hub), 2 Internal USB 2.0 (for Keypro)		
	Serial Port	4 COM ports (2 RS-232, 2 RS-232/422/485)		
	Isolated Serial Port	N/A	4 isolated COM ports (2 RS-232, 2 RS-232/422/485) with 2 kV High Voltage Isolation	
	Isolated Digital I/O	N/A	8 in / 8 out (isolated) with 2 kV High Voltage Isolation	
	DVD Drive (Optional)	1 Slim 12.7 mm DVD Optical Drive   N/A		
Ethernet	Controller	Dual GbE, 10/100/1000 Mbps (Intel i210)		
Audio	Chipset	Realtek ALC886 HD Audio		
	Connectors	Line out, Mic in		
Expansion	Mini PCIe	1 Mini PCIe, signal: USB interface only (with SIM card)		
	PCI/PCIe slot	4 PCI expansion slots		3 PCI, 1 PCIe(x1) expansion slots
Storage	mSATA	1 (Swappable)		
	SATAII	1, 2.5" HDD/SSD bay		
	SATA RAID (Optional)	2, 2.5" HDD/SSD bay (RAID 0 & RAID 1)		N/A
Power	Power Type	AT / ATX		
	Power Supply Voltage	9-36 V DC input (2-pin Terminal Block), 9.3 A - 2.3 A		
	Power Consumption (Typical)	16.9 W @ 12 V DC input (w/o PCI card)		
	Power Consumption (Max)	20.1 W @ 12 V DC input (w/o PCI card)		
Others	Recovery Button	System Recovery Button		
	Remote Power Connector	2-pin Terminal Block (PSON, GND)		
Environment	Operational	-20~60° C (-4~140° F) (Humidity: 60° C @ 95% RH Non-Condensing)		
	Non-Operational	-40~85° C (-40~185° F) (Humidity: 70° C @ 80% RH Non-condensing)		
	Vibration	1 Grms, IEC 60068-2-64, random, 5~500 Hz, 1 Oct/min., 1hr/axis, x,y,z 3 axes.		
	Shock	20 G, IEC 60068-2-27, half sine, 11 ms duration		
Certificate	EMC	CE, FCC, LVD Class A		
General	Dimensions (W x H x D)	194 x 257 x 240 mm (7.64" x 10.12" x 9.45")		
	Weight	5.4 kg (11.88 lb)		
	Operating System	Windows 7/8, WS7E/P, WES8, Linux kernel 2.6.x or above for Fedora		

## Dimensions



## Packing List

Description
1 x BPC-7430
1 x Driver CD
1 x Wall Mount Bracket
1 x Power Adaptor (AC-to-DC, 12 V @ 7 A, 84 W)
8 x Cable Tie for PCI/PCIe Card

## Ordering Information

Part No.	Description
BPC-7430-J1A1	Intel® Celeron® Processor J1900 with 4-slot PCI Expansion, 4 COM (Optional Items: RAID BOX, Recovery mSATA / DVD Drive, HDMI / DP Bracket)
BPC-7430-J2A1	Intel® Celeron® Processor J1900 with 4-slot PCI Expansion, 8 COM, 16-bit Isolated DIO (Optional Items: Recovery mSATA, HDMI / DP Bracket)
BPC-7430-J3A1	Intel® Celeron® Processor J1900 with 1 PCIe(x1) & 3 PCI Expansion, 8 COM, 16-bit Isolated DIO (Optional Items: Recovery mSATA, HDMI / DP Bracket)

## Optional Items

Part No.	Description
ACS-PS-US	Power Cable 3-pin, 180 cm, USA Type
ACS-PS-EU	Power Cable 3-pin, 180 cm, Euro Type
ACS-PS-CN	Power Cable 3-pin, 180 cm, China Type
KIT-DVD-0B	Slim 12.7 mm DVD Drive
KIT-HDB-2B	2-bay 2.5" HDD/SSD
KIT-RECOV-32	32 GB Recovery mSATA SSD
KIT-BKT-HD	HDMI / DP Bracket

# Arestech

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