



BPC-3030

Fanless Embedded Box PC with Intel® Celeron® Processor J1900 and 8 COM Ports

The BPC-3030 fanless Box PC is the ideal hardware platform for embedded and automation applications. Designed with an Intel® Celeron® Processor J1900, the new Bay Trail CPU offers the advantages of desktop performance and low power consumption. With its built-in USB slot design, the BPC-3030 is suitable for integrators requiring software encryption, and is further enhanced with a 9-36 V DC power input, and multiple COM ports (including selected ports with RS-232 or RS-422/485 conversion) that offer a diverse and stable transmission interface ideal for kiosks, automation, and transportation industries. Featuring a rugged case designed to protect against electromagnetic interference, the BPC-3030 includes a passive cooling design for quiet, fanless operation with low power consumption, all at an attractive price point.

Features

- Intel® Celeron® Processor J1900 (2.0 GHz)
- 8 COM Ports (up to 5 RS-232/422/485)
- 2 GbE, 2 USB 3.0, 2 USB 2.0, VGA & HDMI
- 1 Internal USB for Software Encryption Dongle
- 2.5" SATA HDD / SSD
- 1 Half-size Mini PCIe (for WLAN Module)
- 9-36 V DC Power Input

Applications

- Embedded Control Systems
- ATM / Self-service / Kiosk Applications
- Intelligent Transportation Systems
- Machine Automation

BPC-3030

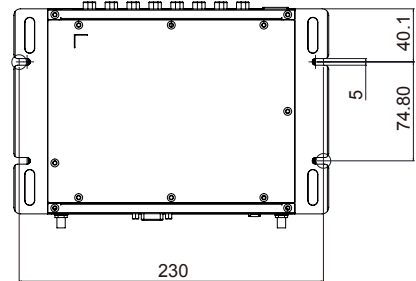
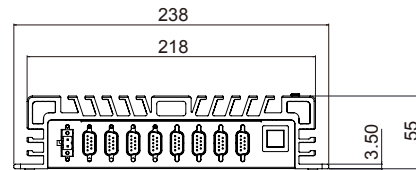
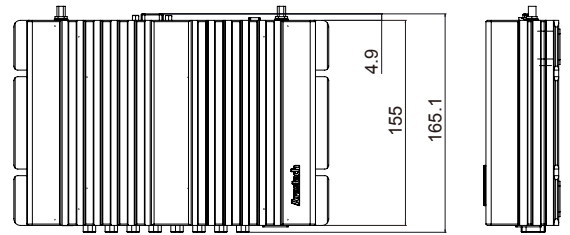
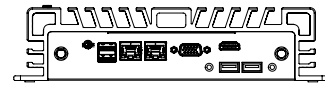
Fanless Embedded Box PC with Intel® Celeron® Processor J1900 and 8 COM Ports



Specifications

Model	BPC-3030-A1E	BPC-3030-1A1	BPC-3030-2A1	
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	UEFI		
Memory	Technology	Single channel DDR3L 1333 MHz SDRAM		
	Max. Capacity	8 GB		
	Socket	204-pin SO-DIMM		
Display	Graphics Engine	Intel® Gen7 Graphics with DX11*, OGL3.2		
	VGA	Up to 1920 x 1200		
	HDMI	HDMI 1.4a, 1920 x 1200 max. resolution		
	Dual Display	VGA + HDMI		
I/O Interface	USB	2 USB 3.0, 2 USB 2.0		
	Internal USB	1 Internal USB for Keypro		
	Serial Port	8 RS-232	4 RS-232	4 RS-232, 4 RS-232/422/485 (Set by jumper)
	GPIO	N/A		
	Ethernet	Controller: Dual GbE, Realtek RTL8111G-CG, 10/100/1000 Mbps		
Audio	Chipset	Realtek ALC662 high definition audio (HD)		
	Connectors	Line out		
Expansion	Mini PCIe	1, Half-size	1 Half-size, 1 Full-size / mSATA	1 Half-size
	SATAII	1, 2.5" HDD/SSD		
Storage	mSATA	N/A	1 mSATA (shared with Full Size Mini PCIe)	N/A
	Power Type	AT / ATX		
Power	Power Supply Voltage	9-36 V DC input (Phoenix connector), 6.7-1.7 A		
	Power Consumption (Typical)	0.783 A @ 12 V (9.4 W)	0.77 A @ 12 V (9.2 W)	0.783 A @ 12 V (9.4 W)
	Power Consumption (Max)	1.25 A @ 12 V (15 W)	1.67 A @ 12 V (14 W)	1.25 A @ 12 V (15 W)
	Operational	-20~60° C (-4~140° F) w/ 2.5" SSD (Humidity: 60° C @80% RH non-condensing)		
	Non-Operational	-40~85° C (-40~185° F) (Humidity: 60° C @ 95% RH Non-condensing)		
Environment	Vibration	5 Grms, IEC 60068-2-64, random, 5~500 Hz, 1 Oct/min., 1hr/axis, x, y, z 3 axes (w/ SSD only)		
		1 Grms, IEC 60068-2-64, random, 5~500 Hz, 1 Oct/min., 1hr/axis, x, y, z 3 axes (w/ 2.5" HDD)		
	Shock	50 G, IEC 60068-2-27, half sine, 11 ms duration (w/ SSD only) 20 G, IEC 60068-2-27, half sine, 11 ms duration (w/ 2.5" HDD)		
Certificate	EMC	CE, FCC Class A		
	Dimensions (W x H x D)	238 x 55 x 165 mm (9.37" x 2.16" x 6.5")		
General	Weight	1.8 kg (3.96 lb)	1.78 kg (3.92 lb)	1.8 kg (3.96 lb)
	Operating System	Windows 7/8, WS7E/P, WES8		

Dimensions



(Mounting Hole Locations)

Packing List

Description
1 x BPC-3030
1 x Driver CD
1 x Power Adaptor (AC-to-DC, 12 V @ 5 A, 60 W)

Ordering Information

Part No.	Description
BPC-3030-A1E	Intel® Celeron® J1900 2.0 GHz w/ 8 RS-232, 4 USB, 1 internal USB, 2 GbE, line out, 1 VGA, 1 HDMI
BPC-3030-1A1	Intel® Celeron® J1900 2.0 GHz w/ 4 RS-232, 4 USB, 1 internal USB, 2 GbE, line out, 1 VGA, 1 HDMI
BPC-3030-2A1	Intel® Celeron® J1900 2.0 GHz w/ 4 RS-232, 4 RS-232/422/485, 4 USB, 1 internal USB, 2 GbE, line out, 1 VGA, 1 HDMI

Optional Items

Part No.	Description
ACS-PS-US	Power Cable 3-pin, 180cm, USA Type
ACS-PS-EU	Power Cable 3-pin, 180cm, Euro Type
ACS-PS-CN	Power Cable 3-pin, 180cm, China Type

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