



BPC-7450

Fanless Embedded Box PC with Intel® Core™ i7 / i5 / i3 Processor

Arestech's BPC-7450 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-7450 can operate in -5 to 45° C temperatures and its cableless structure provides additional durability for long-term usage. Featuring an Intel® Core™ i processor, the BPC-7450 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 port, and USB are also provided for connecting devices. Arestech's BPC-7450 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-7450 creating your rugged application system has never been easier.

Features

- Expandable Fanless Box PC, Intel® Core™ i Processor
- 2 GbE, 2 USB 3.0, 2 COM, 1 DVI-D, 5 Internal USB 2.0
- 4 Swappable HDD (RAID Function), Slim DVD ROM Supported
- 4 PCI / PCIe Expansion Slots, Isolated COM Port, Isolated DIO
- 6-30 V DC Power Input, -5~45° C Operating Temperature

Applications

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

BPC-7450

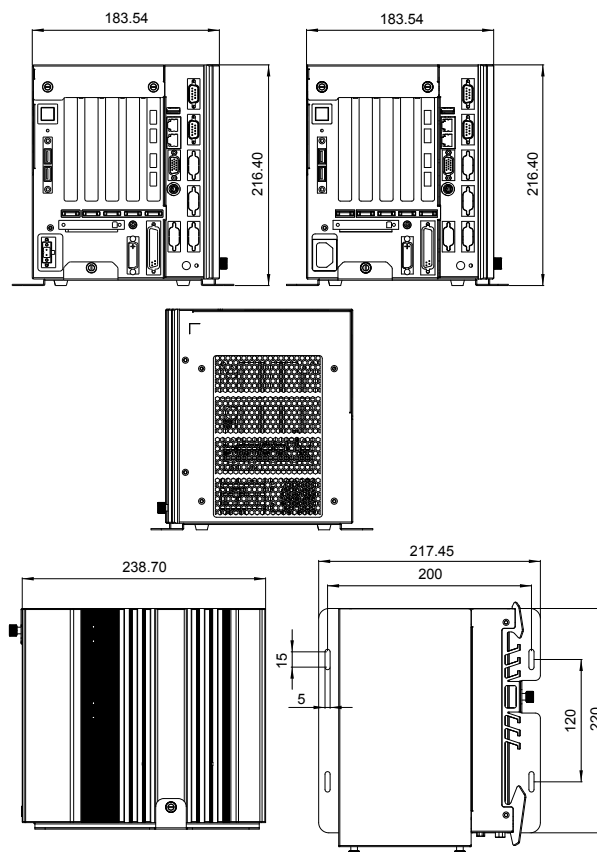
Fanless Embedded Box PC with Intel® Core™ i7 / i5 / i3 Processor



Specifications

	Model	BPC-7450-D0A1	BPC-7450-A0A1
Processor System	CPU	Intel® 4th Gen Core™ i LGA 1150 Processor, Support i7-4785T, i5-4590T, i3-4350T, G3320TE, G1820TE	
	System Chipset	Intel® H81	
	BIOS	AMI 128Mbit SPI Flash	
Memory	Technology	Dual channel (Non-ECC) DDR3 1066/1333/1600	
	Max. Capacity	16 GB	
	Socket	2 DDR3 204-pin SO-DIMM	
Display	Graphics Engine	Intel® HD Graphics 4600	
	VGA	N/A	
	DVI-D	1 DVI-D, 1920 x 1200 pixel at 60Hz	
I/O Interface	USB	2 USB 3.0, 5 Internal USB 2.0	
	Serial Port	2 COM Ports(RS-232), 6 COM (2 RS-232, 4 RS-422/485) (Option)	
	GPIO	1 GPIO (8 bit)	
	Parallel Port	1 LPT	
	PS/2	1 (PS/2 Y cable supports 1 keyboard and 1 mouse)	
Ethernet	Controller	Dual GbE, 10/100/1000 Mbps (LAN 1: Intel I217V, LAN 2: Intel I211AT)	
Expansion	PCI	2 PCI expansion slots	
	PCIe	1 PCIe x1 expansion slot, 1 PCIe x16 expansion slot	
Storage	SATA	2 SATA 3.0 (600 MB/sec), 2 SATA 2.0 (300 MB/sec)	
	Power Type	AT/ATX	
Power	Power Supply Voltage	6-30 V DC, 5-6A, 120W	100-240 V AC, 4-2A, 60-50HZ, 250W
	Thermal Dissipation	Fanless	Fan
Environment	Operational	-5~45° C (23~113° F)	-5~55° C (23~131° F)
	Non-Operational	-30~70° C (-22~158° F)	
	Vibration	Operating : MIL-STD-810G, Method 514.6, Category 4, common carrier US highway truck vibration exposure Storage : MIL-STD-810G, Method 514.6, Category 24, minimum integrity test	
	Shock	Operating : MIL-STD-810G, Method 516.6, Procedure I, functional shock=20g Storage : MIL-STD-810G, Method 516.6, Procedure V, crash hazard shock test=75g	
	Certification	CE, FCC Class A	
General	Dimensions (W x H x D)	183.5 x 216.4 x 238.7 mm (7.34" x 8.65" x 9.54")	
	Weight	5.8 kg (12.81 lb)	5.9 kg (13.03 lb)
	Operating System	Windows 7 Pro, Windows 8 Pro, Windows 10, WS7E/P, WS8, Linux kernel 2.6.x or above	

Dimensions



Packing List

Description
1 x BPC-7450
1 x Driver CD
1 x Startup Manual
1 x Power Adaptor (DC, 12V @ 12.5A, 150W) Only For BPC-7450-D0A1
1 x Power Cord

Ordering Information

Part No.	Description
BPC-7450-D0A1	Intel® Core™ i LGA1155 Processor with 2-slot PCI, 1-slot PCIe, 1-slot PCIe16 Expansion, 2 COM, 8-bit GPIO, 6~30V DC, Fanless
BPC-7450-A0A1	Intel® Core™ i LGA1155 Processor with 2-slot PCI, 1-slot PCIe, 1-slot PCIe16 Expansion, 2 COM, 8-bit GPIO, 100~240V AC, Fan

Optional Items

Part No.	Description
i7-4785T	Intel® 4th Gen Core™ i7-4785T (8M Cache, up to 3.20 GHz)
i5-4590T	Intel® 4th Gen Core™ i5-4590T (6M Cache, up to 3.00 GHz)
i3-4350T	Intel® 4th Gen Core™ i3-4350T (4M Cache, 3.10 GHz)
G3320TE	Intel® Pentium® G3320TE (3M Cache, 2.30 GHz)
G1820TE	Intel® Celeron® G1820TE (2M Cache, 2.20 GHz)
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

Arestech

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