

# BPC-7450

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



## Features

- Expandable Fanless Box PC, 4th Generation Intel® Core™ i Processor
- 1 DVI-D, 2 COM, 2 GbE, 2 USB 3.0, 5 USB 2.0
- 4 PCI / PCIe Expansion Slots
- 6-30 V AC Power Input, -20~55° C Operating Temperature

## Applications

- Embedded Control Systems
- Automatic Optical Inspection (AOI)
- Warehouse Management
- Machine Vision and Motion Control

## → Packing List

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

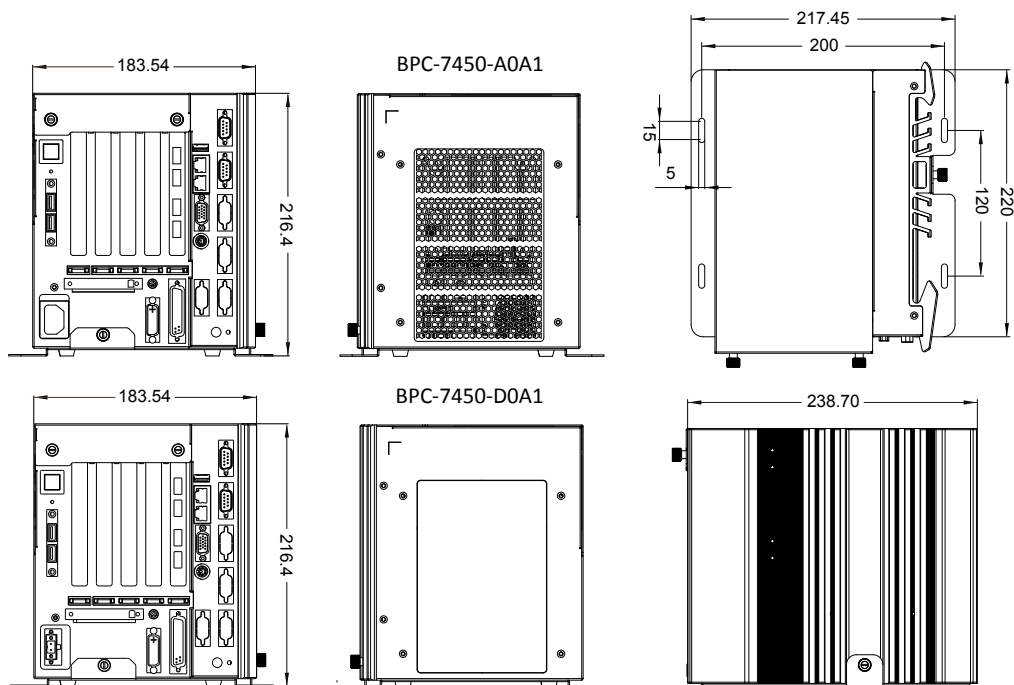
## → Optional Items

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

## → Ordering Information

Part No.	Description
BPC-7450-D0A1	Intel® Core™ i LGA1155 Processor with 2-slot PCI, 1-slot PCIe x1, 1-slot PCIe x16 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 x1, 1-slot PCIe x16 Expansion, 2 COM, 8-bit GPIO, 100-240V AC, Fan

## → Dimensions



## → Specifications

Model		BPC-7450-D0A1	BPC-7450-A0A1
Processor System	CPU	Intel® 4 <sup>th</sup> Gen Core™ i LGA 1150 Processor, supports i7-4785T, i5-4590T, i3-4350T, G3320TE, G1820TE	
	System Chipset	Intel® H81	
	BIOS	AMI 128 Mbit SPI Flash	
Memory	Technology	Dual channel (Non-ECC) DDR3 1066/1333/1600 MHz	
	Max. Capacity	16 GB	
Display	Socket	2 DDR3 204-pin SO-DIMM	
	Graphics Engine	Intel® HD Graphics 4600	
	VGA	1 VGA, up to 1920 x 1200 pixel at 60 Hz	
I/O Interface	DVI-D	1 DVI-D, up to 1920 x 1200 pixel at 60 Hz	
	USB	2 USB 3.0, 5 internal USB 2.0	
	Serial Port	2 COM (RS-232), 6 COM (2 RS-232, 4 RS-422/485) (Optional)	
	GPIO	1 GPIO (8-bit)	
	Parallel Port	1 LPT	
Ethernet	PS/2	1 (PS/2 Y cable supports 1 keyboard and 1 mouse)	
	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, 5-6 A, 120 W	100-240 V AC, 4-2 A, 60-50 Hz, 250 W
	Power Consumption (Typical)	2.18 A @ 12 V (26.2 W)	0.28 A @ 110 V (26 W)
	Power Consumption (Max)	3.74 A @ 12 V (44.9 W)	0.41 A @ 110 V (42 W)
	Thermal Dissipation	Fanless	
Environment	Operational	-20~55° C (-4~131° 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	
Certificate	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	5.1 kg (11.22 lb)	5.22 kg (11.48 lb)
	Operating System	Windows 7/8.1/10, WES7-E/P, WE8S, Ubuntu 14.04	