



# BPC-7260

Fanless Embedded Box PC with 4th/5th Generation Intel® Core™ i Processor and PCI/PCIe Expansion

Arestech's BPC-7260 is an fanless expandable embedded Box PC with two PCIe slots. Featuring a high performance 4th/5th Gen Intel® Core™ processor, the BPC-7260 is designed to meet a wide variety of application demands. An isolated digital I/O (8-bit) port and four COM ports provide normal speed control signals for a variety of industrial equipment utilizing terminal connections. Five LAN ports (four PoE and one GbE) and six USB ports provide high speed signal and data transmission for networked devices such as remote video cameras. The Intel® HD Graphics 4600 engine provides high resolution and smooth performance via three video outputs (VGA, DP, HDMI) suitable for multimedia displays and digital signage. By accepting two PCIe cards, the BPC-7260 becomes a flexible solution that can adapt to just about any user configuration. Three Mini PCIe expansion slots can accept 3G/WLAN modules to provide different types of wireless communication. Supporting up to four HDDs (two internal and two swappable), the BPC-7260 provides the largest possible storage capacity which is especially suited to video surveillance applications. The BPC-7260 also features a rugged design, 9-36 V DC power input, and can operate within a wide temperature range (-20~60° C) and high vibration environments making it an ideal choice for stable, long-term use.

## Features

- Expandable Fanless Box PC, 4th/5th Gen Intel® Core™ i CPU
- 4 Power over Ethernet IEEE 802.3 at/af, Isolated Digital I/O Ports
- 4 HDD/SSD (RAID 0/1/5/10)
- 2 PCIe x4 Expansion Slots
- 9-36 V DC Power Input, -20~60° C Operating Temperature

## Applications

- Embedded Control Systems
- Automatic Optical Inspection (AOI)
- Remote Video Surveillance
- Multimedia Display and Digital Signage
- Wireless Network Communication

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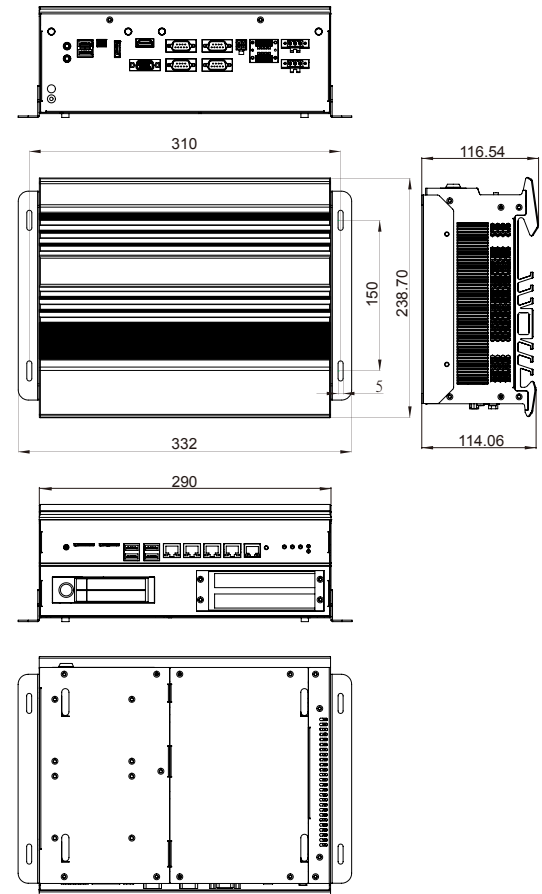
Fanless Embedded Box PC with 4th/5th Generation Intel® Core™ i Processor and PCI/PCIe Expansion



## Specifications

	Model	BPC-7260-1A1	BPC-7260-2A1	BPC-7260-3A1
Processor System	CPU	Intel® Core™ i7-4700EQ	Intel® Core™ i5-4400E	Intel® Core™ i3-4100E
	Frequency	Quad-Core 2.40 GHz	Dual-Core 1.80 GHz	Dual-Core 1.80 GHz
	L2 Cache	Intel® Smart Cache 6 MB	Intel® Smart Cache 3 MB	
	System Chipset	Intel® QM87		
	BIOS	UEFI		
Memory	Technology	DDR3L 1333 / 1600 MHz SDRAM		
	Max. Capacity	16 GB		
	Socket	2 (204-pin SO-DIMM)		
Display	Graphics Engine	Intel® HD Graphics 4600		
	VGA	Up to 1920 x 1200 at 60 Hz		
	HDMI	1.3a, up to 2560 x 1600 at 60Hz		
	DP	Up to 3840 x 2160 at 60Hz		
	Three Display	1 VGA + 1 HDMI + 1 DP (under Windows OS only)		
I/O Interface	USB	4 USB 3.0, 2 USB2.0		
	Serial Port	2 RS-232/422/485 (One supports 5/12 V, 0.5 A), 2 RS-232		
	Digital I/O	8-bit isolated digital I/O (4 input and 4 output, 5 V @ 0.5 A)		
	DC output	12 V DC output (2x2 pin), 1 A		
Ethernet	Controller	1 GbE, 10/100/1000 Mbps (Intel i217LM) ; 2 PoE (IEEE802.3af), 10/100/1000 Mbps (Intel i211); 2 PoE (IEEE802.3af), 10/100/1000 Mbps (Intel i211)		
Audio	Chipset	Realtek ALC892 HD Audio		
	Connectors	Line out, Mic in		
Expansion	PCI/PCIe slot	2 PCIe x4		
	Mini PCIe	1 Mini PCIe (full-size), 2 Mini PCIe (full-size) w/ USB signal only		
	SIM Socket	2		
Storage	SATA	2 Internal 2.5" HDD/SSD, 2 Swappable 2.5" HDD/SSD Bays (RAID 0/1/5/10)		
	mSATA	1		
Power	Power Type	AT / ATX		
	Power Supply Voltage	9-36 V DC input (3-pin Terminal Block)		
	Power Connector	3-pin Terminal Block, 3-pin Remote Power Connector		
	Power Adaptor	AC-to-DC, 12 V @ 15 A, 180 W		
	Power Consumption (Typical)	2.3 A @ 12 V (27.6 W) for Core™ i7-4700EQ, not including PoE Device		
	Power Consumption (Max)	8.5 A @ 12 V (102 W) for Core™ i7-4700EQ, not including PoE Device		
Others	Recovery Button	System Recovery Button		
Environment	Operational	-20~60° C (-4~140° F) w/ Industrial SSD, w/ Air flow (Humidity: 70° C @ 80% RH Non-condensing)		
	Non-Operational	-40~85° C (-40~185° F) (Humidity: 70° C @ 80% RH Non-condensing)		
	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		
Certificate	EMC	CE & FCC Class A, CCC		
General	Dimensions (W x H x D)	290 x 116.54 x 238.7 mm (11.42" x 4.59" x 9.40")		
	Weight	5.19 kg (11.42 lb)		
	Operating System	Windows 7/8, WS7E/P, WES8, Linux kernel 2.6.x or above		

## Dimensions



## Packing List

Description
1 x BPC-7260
1 x Driver CD
2 x Wall Mount Bracket
1 x Power Adaptor (AC-to-DC, 12 V @ 15 A, 180 W)

## Ordering Information

Part No.	Description
BPC-7260-1A1	Intel® Core™ i7-4700EQ w/ 6 USB, 4 COM, DIO, 1 GbE, 4 PoE, line out, mic in, 1 VGA, 1 DP, 1 HDMI, 2 PCIe x4
BPC-7260-2A1	Intel® Core™ i5-4400E w/ 6 USB, 4 COM, DIO, 1 GbE, 4 PoE, line out, mic in, 1 VGA, 1 DP, 1 HDMI, 2 PCIe x4
BPC-7260-3A1	Intel® Core™ i3-4100E w/ 6 USB, 4 COM, DIO, 1 GbE, 4 PoE, line out, mic in, 1 VGA, 1 DP, 1 HDMI, 2 PCIe x4

## Optional Items

Part No.	Description
KIT-WIFI-BGN-01	Wi-Fi 802.11 bgn Module + 1 Antenna
KIT-WIFI-AC-01	Wi-Fi 802.11 abgn/ac Module + 1 Antenna
KIT-WIFI-ACBT-01	Wi-Fi 802.11 abgn/ac/BT4.0 Module + 2 Antennas
KIT-3G-01	3G (HSPA+) Module + 1 Antenna
KIT-LTE-01	LTE Module + 2 antenna
KIT-GPS-01	GPS Module
KIT-CAN-CN-01	CAN Connector
KIT-DIO-CN-01	DIO Connector

# Arestech

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