

# PS-6000B Advanced Node Box Industrial PC



## PS6000B

Model: PS6000 Series

CPU: Core™ i7, Core™ i5, Core™ i3, Celeron

100-240 Vac

24 Vdc

Windows 10

AC or DC

Multiple OS  
Options

Build to  
Order



### Performance Specifications

Box Unit Options		Advanced Box		Standard Box
CPU		Core™ i7	Core™ i5	Celeron
Graphic Accelerator		Intel UHD Graphics 620		Intel® UHD Graphics 610 (built in CPU)
Supported OS		Windows 10 IoT Enterprise 2019 LTSC (64bit)		
Main Memory		260-pin SO-DIMM socket x 2, DDR4-2400 (Up to 16 GB/socket, up to 32 GB for 2 sockets)	260-pin SODIMM socket x 2, DDR4-2133 (Up to 16 GB/socket, up to 32 GB for 2 sockets)	260-pin SODIMM socket x 2, DDR4-2400 (Up to 16 GB/socket, up to 32 GB for 2 sockets)
Interfaces	Serial (COM)	RS-232C (not isolated) x 1, 7 or 8 bits, 1 or 2 bits, None, odd or even, D-Sub 9-pin (plug)		
	Ethernet (LAN)	IEEE1588, 10 BASE-T/ 100 BASE-TX/ 1000BASE-T, Wake-on-LAN (WOL) supported*4 Modular jack (RJ-45) x 2		
	USB	USB TypeA: USB2.0 x2, USB3.0 x2 USB TypeC: USB3.0 x1 (DP connection)		
	Expansion Slot	PCI x 1 + PCIe x 1, PCIe x 2 or PCI x 2 PCI card size: Short size PCIe card size: Half length PCI slot: Revision 3.0, 32 bit bus, 3.3 Vdc PCIe slot: Revision 3.0, 1 lane (x1) PCIe connector: 4 lanes (x4), edgeless		

### General Specifications

Box Units	Advanced		Standard	
	DC Model	AC Model	DC Model	AC Model
Rated Input Voltage	12-24 Vdc ±20 %	100 to 240 Vac	12-24 Vdc ±20 %	100 to 240 Vac
Input voltage limits	18...31.2 Vdc	85...264 Vac	18...31.2 Vdc	85...264 Vac
Voltage Drop	5 ms or less	20 ms or less	5 ms or less	20 ms or less
Power Consumption	56 W When power is not supplied to external devices (Max 121 W)	67 VA When power is not supplied to external devices (Max 140 VA)	39 W When power is not supplied to external devices (Max 87 W)	48 VA When power is not supplied to external devices (Max 99 VA)
In-Rush Current	30 A or less			
Storage Temperature	-30...70 °C (-22...158 °F) - Box Type, -20...60 °C (-4...140 °F) - Panel Type			
Certifications	UL 61010-2-201, cUL, Class 1 Division 2 Groups A, B, C and D Programmable Controllers for use in HazLoc, and CSA C22.2 N°61010-2-201, CE, RCM, RoHS, REACH, KC, WEEE			
Ambient Air Temperature	Wall/Book(Side) mounting:0...55°C(32...131°F) with/without FAN kit, Flat/Book(Top) mounting:0...50°C(32...122°F) with/without FAN kit		Wall/Book(Side) mounting:0...55°C(32...131°F), Flat/Book(Top) mounting:0...50°C(32...122°F)	
Ambient air and storage humidity	10...90% RH (non condensing, wet bulb temperature 39 °C [102.2 °F] or less)			
Grounding	DC model: Functional grounding: Grounding resistance of 100 Ω or less, 2 mm2(AWG 14) or thicker wire, or your country's applicable standard (SG and FG are connected inside the product) AC model: Protective grounding:Grounding resistance of 100 Ω or less, 2 mm2(AWG 14) or thicker wire, or your country's applicable standard (SG and PE are connected inside the product.)			
Pollution Degree	For use in Pollution Degree 2 environment			
Atmospheric pressure	800...1,114 hPa (2,000 m [6,561 ft] or lower)			
Vibration Resistance	IEC/EN 61131-2 compliant 5...9 Hz Single amplitude 3.5 mm (0.14 in) 9...150 Hz Fixed acceleration: 9.8 m/s2 X, Y, Z directions for 10 cycles (approximately 100 minutes)			
Structure	IP66F, IP67F, UL 50/50E, Type 1, Type 4X (indoor use only), Type 12, Type 13 NOTE: On the front panel when properly installed in an enclosure.			
Weight	3.5 kg (7.72 lb) or less*1		2.5kg (5.51 lb) or less	
External Dimensions	290 x 195 x 65 mm (11.42 x 7.68 x 2.56 in)with PCI/PCle slots:290 x 195 x 142 mm (11.42 x 7.68 x 5.59 in)with FAN kit: 290 x 195 x 98 mm (11.42 x 7.68 x 3.86 in		250 x 165 x 53 mm(9.84x 6.5 x 2.09 in)	

\*1 If the PCI/PCle slot or FAN kit is connected, add the corresponding weight as follows: PCI/PCle slot: 1.5 kg (3.31 lb), FAN kit: 0.5 kg (1.10 lb). FAN kit: 0.5 kg (1.10 lb).

**External Dimensions** | **Ordering Information**

### Standard Model

External Dimensions

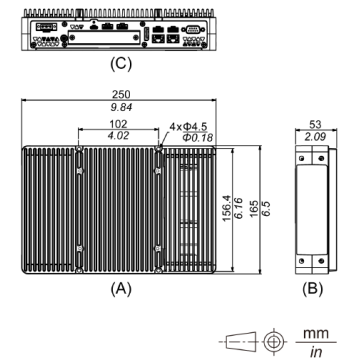


Diagram showing three views of the Standard Model: (A) Front view, (B) Left view, and (C) Bottom view. Dimensions are provided in millimeters and inches. Key dimensions include: (A) 250 mm (9.84 in) total width, 102 mm (4.02 in) to the start of the 4xΦ4.5 Φ0.78 holes, 156.4 mm (6.16 in) height, 105 mm (4.13 in) height to the top of the front panel, and 6.9 mm (0.27 in) depth. (B) 53 mm (2.09 in) height. (C) 250 mm (9.84 in) width.

A. Front  
B. Left  
C. Bottom

### Advanced Model

External Dimensions

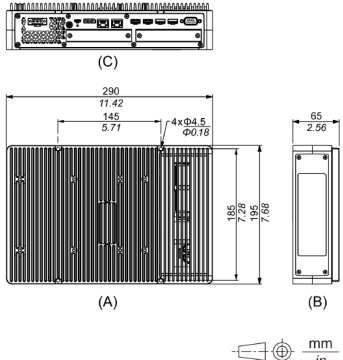


Diagram showing three views of the Advanced Model: (A) Front view, (B) Left view, and (C) Bottom view. Dimensions are provided in millimeters and inches. Key dimensions include: (A) 290 mm (11.42 in) total width, 145 mm (5.71 in) to the start of the 4xΦ4.5 Φ0.78 holes, 185 mm (7.28 in) height, 195 mm (7.68 in) height to the top of the front panel, and 65 mm (2.56 in) depth. (B) 65 mm (2.56 in) height. (C) 290 mm (11.42 in) width.

A. Front  
B. Left  
C. Bottom

\*0 Slot models shown. Please reference manual for other slot or fan extensions.

### Ordering Information

**P F X P 6 \* B \* \* \* \* \* \* \***

#### Node Box Unit Only

<b>Box PC</b> .....	7: Box PC Core i7 (Advanced Box) 5: Box PC Core i5 (Advanced Box) C: Box PC Celeron (Advanced Box) 3: Box PC Core i3 (Standard Box)
<b>Display</b> .....	B: No Display
<b>Power Supply</b> .....	D: 24 Vdc for Advanced Box 1: 24 Vdc for Standard Box A: 100 - 240 Vac for Advanced Box 2: 100 - 240 Vac for Standard Box
<b>Slots</b> .....	0: 0 slots M: PCI x 1 + PCIe x 1 E: PCIe x 2 P: PCI x 2
<b>Fan</b> .....	N: None F: With Fan
<b>Storage Device</b> .....	0 None 1: M.2 SSD 128 GB (Standard Endurance) 2: Interface - M.2 SSD 128 GB (High Endurance) 3: Interface - M.2 SSD 256 GB (High Endurance) 4: Interface - M.2 SSD 512 GB (High Endurance) 5: Interface - SSD 128 GB (High Endurance) 6: Interface - SSD 256 GB (High Endurance) 7: Interface - SSD 512 GB (High Endurance) 8: Interface - HDD 1 TB
<b>Secondary Storage</b> .....	0: None 5: SSD 128 GB (High Endurance) 6: SSD 256 GB (High Endurance) 7: SSD 512 GB (High Endurance) 8: HDD 1 TB
<b>Memory</b> .....	4: DIMM 4 GB (4 GB x 1) 8: DIMM 8 GB (4 GB x 2) A: DIMM 16 GB (8 GB x 2) B: DIMM 32 GB (16 GB x 2)
<b>Options</b> .....	N: None B: RS-232C isolated x 2 C: RS-232C x 4 D: RS-422/485 isolated x 2 E: Ethernet (GbE IEEE1588) x 1
<b>Operating System</b> .....	N: None C: Windows®10 IoT Ent 2019 LTSC (64bit) for Celeron 3: Windows®10 IoT Ent 2019 LTSC (64bit) for Core i3/i5 7: Windows®10 IoT Ent 2019 LTSC (64bit) for Core i7
<b>Software</b> .....	N: None B: BLUE license key code B R: Pro-face Remote HMI Server license key code C: BLUE Open Studio RT 1.5 K license key code D: BLUE Open Studio RT 4 K license key code F: BLUE Open Studio RT 32 K license key code E: BLUE Open Studio RT 64 K license key code
<b>Warranty</b> .....	None (Standard) One year extended Two year extended