

PS6500WC Modular Industrial PC



PS6500WC
Model: PS6000 Series
CPU: Core™ i3

10.1"

100-240 Vac
24 Vdc

Windows 10 AC or DC Core™ i3 CPU Build to Order

CE UL cUL RoHS K Class 1 Division 2

Performance Specifications		
Display	PS6500 10.1" Display with Choice of Box Unit	
Graphics Display Resolution	1,280 x 800 pixels (WXGA)	
Display Type & Size	TFT Color LCD (10.1-inch) (wide)	
Display Colors	16 million colors	
Touch Panel	Projected capacitive (multi-touch)	
Effective Display Area	216.96 x 135.6 mm (8.54 x 5.34 in)	
Backlight	White LED (not user replaceable. Please contact customer support.)	
Backlight Service Life	50,000 hours or more (continuous operation at 25 °C [77 °F] before backlight brightness decreases to 25%)	
Brightness Control	0...100 (adjusted with touch panel or software)	
Panel Resolution	2,048 x 2,048	
Box Unit Options	Standard Box	
CPU	Core™ i3	
Graphic Accelerator	Intel® UHD Graphics 620 (built in CPU)	
Supported OS	Windows10 IoT Enterprise 2019 LTSC (64bit)	
Main Memory	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)
	Storage Slot	M.2 SSD SATA x 1 (Disk 0) 2.5-inch SATA (HDD/SSD) x 1 (Disk 1) SATA speed: 6 Gb/s, 3 Gb/s, 1.5 Gb/s

General Specifications		
PS6700 15.6" Display with choice of box unit	Standard	
	DC Model	AC Model
Rated Input Voltage	12-24 Vdc ±20 % When using	100 to 240 Vac
Input voltage limits	18...31.2 Vdc	85...264 Vac
Voltage Drop	5 ms or less	20 ms or less
Power Consumption ⁴	Panel Unit Only: 47 W When power is not supplied to external devices (Max 65 W) Box Unit Only: 39 W When power is not supplied to external devices (Max 87 W)	Panel Unit Only: 54 VA When power is not supplied to external devices (Max 70 VA) Box Unit Only: 48 VA When power is not supplied to external devices (Max 99 VA)
In-Rush Current	30 A or less	
Grounding	DC model: Functional grounding: Grounding resistance of 100 Ω or less, 2 mm ² (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 mm ² (AWG 14) or thicker wire, or your country's applicable standard (SG and PE are connected inside the product.)	
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	Panel (Landscape) mounting: 0...55 °C (32...131 °F) (for 19" Wide, 0...50 °C (32...122 °F)) Panel (Portrait) 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)	
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/s ² 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	4.5 kg (9.92 lb) or less	
External Dimensions	268.5 x 198.5 x 83 mm (10.57 x 7.81 x 3.27 in)	
Panel Cut-Out Dimensions	255 x 185 mm (10.04 x 7.28 in) ¹ & ²	
Warranty	Two (2) years	

¹ For dimensional tolerance, everything +1/-0 mm (+0.04/-0 in) and R in angle are below R3 (R0.12 in). Even if the installation wall thickness is within the recommended range for the Panel Cut Dimensions, depending on wall's material, size, and installation location of this product and other devices, the installation wall could warp. To prevent warping, the installation surface may need to be strengthened. ² Even if the installation wall thickness is within the recommended range for the Panel Cut Dimensions, depending on wall's material, size, and installation location of this product and other devices, the installation wall could warp. ³ If the PCI/PCIe slot or FAN kit is connected, add the corresponding weight as follows: PCI/PCIe slot: 1.5 kg (3.31 lb) FAN kit: 0.5 kg (1.10 lb) ⁴ The power for panel and box must be added together to get the complete power consumption for the unit.

External Dimensions

Standard Model

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

Panel Cut Dimensions

IPC Cut-out	A	B	C
10.1"	255 ±1 mm [10.04 ±0.04 in.]	185 ±1 mm [7.28 ±0.04 in.]	1.5 to 5 mm [0.06 to 0.2 in.]

Ordering Information

P F X P 6 * D * * * * * * * *

Panel PC and Modular Displays: 10.1" Modular Display

Box PC..... 3: Box PC Core i3 (Standard Box)

Display..... D: 10.4" Wide Display

Power Supply..... 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

Slots..... 0: 0 slots
M: PCI x 1 + PCIe x 1
E: PCIe x 2
P: PCI x 2

Fan..... N: None
F: With Fan

Storage Device..... 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

Secondary Storage..... 0: None
5: SSD 128 GB (High Endurance)
6: SSD 256 GB (High Endurance)
7: SSD 512 GB (High Endurance)
8: HDD 1 TB

Memory..... 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)

Options..... 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

Operating System..... N: None
3: Windows®10 IoT Ent 2019 LTSC (64bit) for Core i3/i5

Software..... 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

Warranty..... None (Standard)
One year extended
Two year extended