

PS-4700 Atom™ Z510 - Aluminum Bezel Model  
Model (Global Code): PFXPP170AxxxxNxN00

Functional Specification		
Display Size	15"	
Display Colors	16 million	
Backlight	LED Life span > 50,000 h @ 25 °C [77 °F]	
Brightness Control	Step less adjustment	
Supported OS	CF: Windows® Embedded Standard 2009*1	
CPU	Atom™ Z510 1.1 GHz	
L2 Cache Memory	512 KB	
Main Memory	1 GB to 2 GB max. (DDR2 400 MHz)*2	
Chipset	Intel® System Controller Hub US15W	
Graphics Accelerator	Intel® Graphics Media Accelerator 500	
Video Memory	Up to 256 MB*3	
Graphics	XGA TFT active matrix (1,024 x 768 pixels)	
Touch Panel Type	Analog resistive film	
Touch Panel Resolution	4,096 x 4,096	
Interface	IDE	4 GB CF Card (Type-I) x1
	Serial (COM1)	RS-232C (D-Sub 9-pin, plug)
	Ethernet	10/100/1000 Mbit/s (RJ-45 Modular jack)
	USB (TYPE-A)	USB 2.0 x3*4

\*1: For details on languages supported by pre-installed operating systems, read "The List of OS Pre-installed Languages for Multi-language".  
(<http://www.pro-face.com/product/ipc/ps4000/spec/language.html>)

\*2: Unable to be added by users.

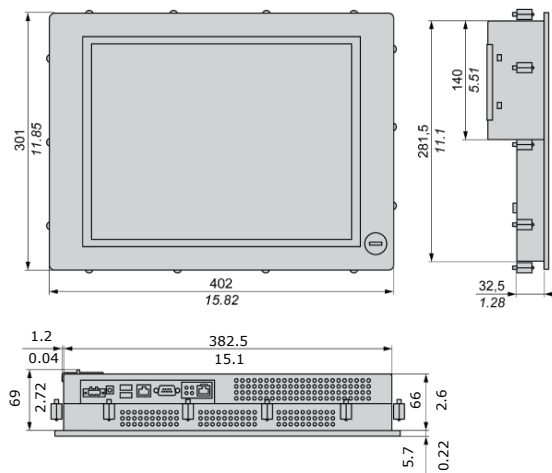
\*3: Reserved from main memory.

\*4: Maximum 1 A per connection

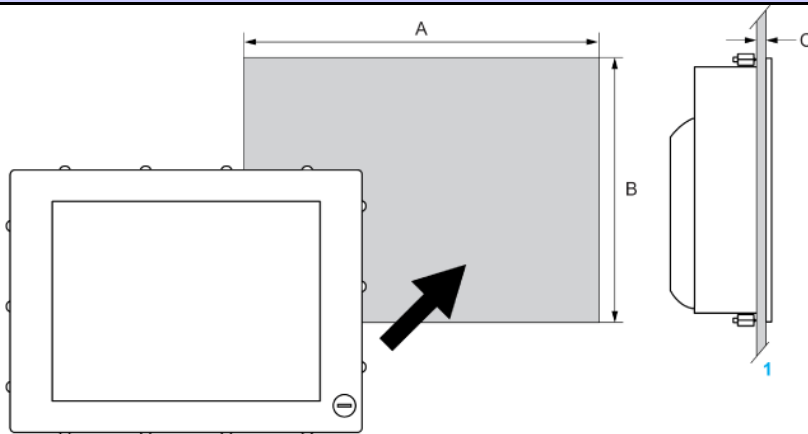
General Specification	
Supported Standards and Regulations	UL508, ANSI/ISA12.12.01, CSA C22.2 No.142, CSA C22.2 No213, EMC 2004/108/EC, LVD 2006/95/EC, C-TICK, KC, GOST-R, GL
Rated Input Voltage	24 Vdc ±25 %
Power Consumption	31 W*5
In-Rush Current	Typ. 3 A, max. 50 A < 300 µs
Surrounding Air Temperature	0 to 50 °C [32 to 122 °F]
Storage Temperature	- 20 to +60 °C [- 4 to +140 °F]
Ambient Humidity	10 to 85 % RH (Wet bulb temperature: 29 °C [84.2 °F] max. - no condensation)
Storage Humidity	10 to 85 % RH (Wet bulb temperature: 29 °C [84.2 °F] max. - no condensation)
Pollution Degree	For use in Pollution Degree 2 environment
Air Pressure (altitude range)	2,000 m [6,560 ft] max.
Vibration Resistance	Operation (continuous) for 6 Fc products with CF Card storage device: 2 to 9 Hz: 1.75 mm [0.07 in.], 9 to 200Hz: 4.9 m/s <sup>2</sup> Operation (occasional) for products with CF Card storage device: 2 to 9 Hz: 3.5 mm [0.14 in.], 9 to 200 Hz: 9.8 m/s <sup>2</sup> Merchant Navy (continuous): 3 to 13.2 Hz: 1 mm [0.04 in.], 13.2 to 100 Hz: 6.86 m/s <sup>2</sup> Shock Resistance (in operation): 147 m/s <sup>2</sup> for a duration of 11 ms (IEC 60068-2-27 Ea test)
Electromagnetic Compatibility (EMC)	Immunity to High Frequency Interference Electromagnetic Emissions Class A
Structure	Front: IP65
Cooling Method	Passive heat sink, Fanless operation
Weight Approx.	5.0 kg [11.0 lbs]
External Dimensions	W402 x H301 x D74.7 mm [W15.82 x H11.85 x D2.94 in.]
Panel Cut Dimensions	W383.5 x H282.5 mm [W15.10 x H11.12 in.]

\*5: The value does not include the power supplied to an interface expansion board (BTO option).

**External Dimensions**



**Panel Cut-out**



1	Installation panel
A	383.5 + 1/- 0 mm (15.10 + 0.04/- 0 in.)
B	282.5 + 1/- 0 mm (11.12 + 0.04/- 0 in.)
C	1.6...10 mm (0.06...0.39 in.)

The following table shows the general tolerances for Industrial Personal Computer dimensions.

Nominal Measurement	General Tolerance acc. DIN ISO 2768 Medium
up to 6 mm (up to 0.236 in.)	± 0.1 mm (± 0.004 in.)
6...30 mm (0.236...1.181 in.)	± 0.2 mm (± 0.0078 in.)
30...120 mm (1.18...4.724 in.)	± 0.3 mm (± 0.012 in.)
120...400 mm (4.724...15.747 in.)	± 0.5 mm (± 0.02 in.)
400...1000 mm (15.747...39.37 in.)	± 0.8 mm (± 0.031 in.)

Pro-face's PS4000 Series website <http://www.pro-face.com/product/ipc/ps4000/>