



PFXSP5B411 / PFXSP5B412

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Standard product information

Family	HMI
Series	SP5000 Series
Size	Box (Open)
Model	PFXSP5B411 (HMI Runtime not included) / PFXSP5B412 (HMI Runtime included)
Global Code	PFXSP5B411 (HMI Runtime not included) / PFXSP5B412 (HMI Runtime included)
Product Features	Box Module Windows applications (Open Box, Windows 10)

Electrical specifications

Rated input voltage	12 Vdc (Supply from Display Module or DC Power Supply Adapter for Box Module "PFXZCDAEXP1")
Power consumption	Max. 25 W When power is not supplied to external devices: 15 W or less ^{*1}
Noise immunity	Noise Voltage : 1,000 Vp-p Pulse Duration : 1 µs Rise Time : 1 ns (via noise simulator)

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Environmental specifications

International safety standards	     ANSI/CSA (UL61010+1604) Listed       
Surrounding air temperature	0 to 60 °C [32 to 140 °F]
Storage temperature	-20 to +60 °C [-4 to 140 °F]
Ambient humidity	10 to 90 % RH (Wet bulb temperature: 39 °C [102.2 °F] max. - no condensation)
Storage humidity	10 to 90 % RH (Wet bulb temperature: 39 °C [102.2 °F] max. - no condensation)
Dust	0.1 mg/m ³ (10 ⁻⁷ oz/ft ³) or less (non-conductive levels)
Pollution degree	For use in Pollution Degree 2 environment
Corrosive gases	Free of corrosive gases
Air pressure (altitude range)	800 to 1,114 hPa (2,000 m [6,561 ft.] above sea level or less)
Vibration resistance	IEC/EN 61131-2 compliant 5 to 9 Hz single amplitude 3.5 mm [0.14 in.] 9 to 150 Hz fixed acceleration: 9.8 m/s ² X, Y, Z directions for 10 cycles (approx. 100 min.)
Concussion resistance	IEC/EN 61131-2 compliant 147 m/s ² , X, Y, Z directions for 3 times
Electrostatic discharge immunity	Contact Discharge Method: 6 kV Air Discharge Method: 8 kV (IEC/EN61000-4-2 Level 3)

Memory



	- User Font Area: No Upper Limit - Logic Program Area: None - Free Space: Approx. 17GB Removable System: Yes
Backup memory	When using GP-Pro EX: - Screen Area: NVRAM 320KB or CFast/SD Card (storage) 5MB - Variable Area: NVRAM 64KB Battery: None ^{*1}

^{*1} SP5000 Series can retain NVRAM (backup memory) and RTC (clock data) without any batteries. But, when no power is supplied for 100 days or more, it's necessary to additionally mount this option item to retain RTC (clock data).

Interface specifications	
Serial (COM1)	Asynchronous Transmission: RS-232C / 422 / 485, Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: None, Even or Odd, Data Transmission Speed: 2,400 (1,200) to 115,200 bps, Connector: D-Sub 9 pin (plug)
Serial (COM2)	Asynchronous Transmission: RS-232C / 422 / 485, Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: None, Even or Odd, Data Transmission Speed: 2,400 (1,200) to 115,200 bps, Connector: D-Sub 9 pin (plug)
USB (Type A)	Conforms to USB 2.0 (Type A) x 3 Power supply voltage: 5 Vdc ±5 % Output Current: 500 mA/port 1 A total for 3 ports Communication distance: 5 m [16.4 ft.] ^{*1}
USB (mini-B)	Conforms to USB 2.0 (mini-B) x 1, Communication Distance: 5 m [16.4 ft] or less
Ethernet	IEEE802.3i / IEEE802.3u / IEEE802.3ab, 10BASE-T / 100BASE-TX / 1000BASE-T, Connector: Modular jack (RJ-45) x 2
SD card	SD Card Slot (Storage) x 1
CFast card	CFast Card Slot (System) x 1, CFast Card Slot (Storage) x 1
Expansion unit	Fieldbus Unit x 1
Video	DVI-D output, Connector: DVI-I 24 pin (socket) x 1, Resolution: up to 1,920 x 1,200 pixels (WUXGA, VESA compatible) ^{*2}

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	Switch), LINE Output: 4.0Vp-p (Rated load: 10kΩ) (Software Switch), Connector: 2-piece terminal block (AUX) x 1
AUX output	Alarm Output or Buzzer Output x 1 Rated Voltage: 24 Vdc, Rated Current: 50 mA or less Connector: 2-piece terminal block (AUX) x 1

*1 When using the Display Module with the Power Box, you can connect only one of each type of USB device, such as one USB flash drive, one transfer cable, or one barcode reader. If you connect multiple devices that are the same type, only the first device will work.

*2 The output resolution in the clone mode (duplication) depends on the display module of SP5000 Series. Please click [here](#) about how to get a full-screen display on an external monitor.

Structural specifications

Cooling method	Natural air circulation
External dimensions	W188 x H131 x D35 mm [W7.40 x H5.16 x D1.38 in.]
Weight	0.9 kg [1.98 lb] or less *1

*1 Box module only.

Dimensions

External dimensions	 SP-5B40_Dimensions_e.png
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