

Box Module

SP5000 SERIES



SP-5B40

Model: PFXSP5B40



SP-5B10

Model: PFXSP5B10

SP5000 Series is a combined unit of Display Module and Box Module.
The power consumption or weight for the combined unit equals each sum of power consumption or weight of the two modules.

Model Number Configuration

Box Module

PFXSP5 B **
(1) (2)

• Coated models are also available.

(1) Type		(2) Class	
B	BOX	40	Open
		10	Power

×

Display Module

PFXSP5 * * * * * D
(3) (4) (5)(6)(7)

• Coated and/or color selectable display modules are also available. In addition to Silver, there are three optional colors, Black Beige Off-white

(3) Size	(4) Wireless LAN	(5) Resolution		(6) Touch Panel		(7) Power Supply	
7 15"	60 Yes	T	TFT	P	Premium (Multi)	D	DC
6 12"	00 -	W	Wide TFT	A	Advanced		
5 10"							
4 7"							

Electrical Specifications

		Open Box SP-5B40	Power Box SP-5B10
Rated Input Voltage		12Vdc (Supply from Display Module)	
Power Consumption*1	Max	35W	25W
	When power is not supplied to external devices	22.5W or less	12.5W or less

*1 Power consumption for Box Module only

Environmental Specifications

	Open Box SP-5B40	Power Box SP-5B10
Surrounding Air Temperature	0...60 ° C (32...140 ° F)	
Storage Temperature	-20...60 ° C (-4...140 ° F)	
Surrounding Air and Storage Humidity	10%...90% RH (Non condensing, wet bulb temperature 39 ° C [102.2 ° F] or less)	
Dust	0.1 mg/m3 (10-7 oz/ft3) or less (non-conductive levels)	
Pollution Degree	For use in Pollution Degree 2 environment	
Corrosive Gases	Free of corrosive gases	
Atmospheric Pressure (Operating Altitude)	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 (approx. 100 min.)	
Shock Resistance	IEC/EN 61131-2 compliant 147 m/s2, X, Y, Z directions for 3 times	
Noise Immunity	Noise Voltage: 1,000 Vp-p Pulse Duration: 1 μs Rise Time: 1 ns (via noise simulator)	
Electrostatic Discharge Immunity	Contact Discharge Method : 6kV (IEC/EN 61000-4-2 Level 3)	

Box Module Specifications

SP5000 SERIES

Memory

	Open Box SP-5B40	Power Box SP-5B10
Application Memory	Screen Size: 64MB *CFast card Free Space: About 5GB *2	Screen Size: 64MB *SD card Free Space: None
Backup Memory	NVRAM 320KB	
Control Memory	-	64KB

*2 You can install the applications you have used. As for hardware specifications, the CPU is Intel® Atom™ E6x0 1.3GHz (Single core/Dual thread)' and the main memory is 'DDR2 SDRAM 2GB'. For the other hardware specifications, refer to "SP5000 Series Open Box Reference Manual".

Interface Specifications

	Open Box SP-5B40	Power Box SP-5B10
Serial Interface COM1	RS-232C/422/485, Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits Parity: None, odd, or even, Data Transmission Speed: 2,400 (1,200) ~ 115,200bps Connector: D-Sub 9 pin (plug)	
Serial Interface COM2	RS-232C/422/485, Data Length: 7 or 8 bits Stop Bit: 1 or 2 bits Parity: None, odd, or even Data Transmission Speed: 2,400(1,200)...115,200 bps Connector: D-Sub 9 pin (plug)	RS-232C/422/485, Data Length: 7 or 8 bits Stop Bit: 1 or 2 bits Parity: None, odd, or even Data Transmission Speed: 2,400(1,200)...115,200 bps, 187,500bps (MPI) Connector: D-Sub 9 pin (plug)
USB (Type A) Interface *3	Connector: USB2.0 (Type A) x 3 Power Supply Voltage: 5Vdc ±5% Maximum Current Supplied: 500mA /port, 1A total for 3 ports Maximum Transmission Distance: 5m	Connector: USB2.0 (Type A) x 2 Power Supply Voltage: 5Vdc ±5% Maximum Current Supplied: 500mA / port Maximum Transmission Distance: 5m
USB (mini-B) Interface	Connector: USB 2.0 (mini-B) x 1, Maximum Transmission Distance: 5m (16.4 ft)	
Ethernet Interface	Standard: IEEE802.3i/IEEE802.3u/IEEE802.3ab, 10BASE-T/100BASE-TX/1000BASE-T Connector: Modular jack (RJ-45) x 2	
SD Card Interface	SD Card Slot (Storage) x 1	SD Card Slot (System) x 1 SD Card Slot (Storage) x 1
CFast Card Interface	CFast Card Slot (System) x 1 CFast Card Slot (Storage) x 1	-
Video Interface	DVI-D OUT Connector: DVI-D 24 pin (socket) x 1	-
Sound Input Interface	Sound Input: MIC or LINE input (software switch) Connector: MINI-JACK ø3.5 x 1	-
Sound Output Interface	Speaker Output: 300mW (Rated Load: 8Ω, Frequency : 1kHz) LINE Output: Rated load: 10kΩ or more Connector: 2-piece terminal block (AUX) x 1	
AUX Input /Output Interface	Alarm Output / Buzzer Output Rated Voltage: 24Vdc, Rated Current: 50mA or less Connector: 2-piece terminal block x 1	

*3 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 bar code reader. If you connect multiple devices that are the same type, only the first device will work.

Structural Specifications

	Open Box SP-5B40	Power Box SP-5B10
Cooling Method	Natural air circulation	
External Dimensions *4	W188 x H131 x D45 mm (W7.4 x H5.16 x D1.77 in.)	
Weight *4	0.9kg (1.98 lb) or less	

*4 External Dimensions and Weight for Box Module only

External dimensions/Parts Identifications

SP-5B40

mm
in.

(11) (12)(13) (14) (15)

45
1.77
35
1.38

188
7.40

(1) (2) (3)(4)

(5)

131
5.16

(6) (7)

(9) (10)

(1)Auxiliary Output/Speaker Output Interface (AUX) (2)DVI-D Output Interface
(3)AUDIO Input Interface (LIN/MIC) (4)Status LED (5)Card Access LED (6)USB (Type A) Interface (7)USB (mini-B) Interface (8)Expansion Unit Interface Cover (EXT) (9)Storage Card Cover (10)System Card Cover (11)USB (Type A) Interface (12)Ethernet Interface (ETH1) (13)Ethernet Interface (ETH2) (14)Serial Interface (COM1) (15)Serial Interface (COM2)

SP-5B10

mm
in.

(8) (9)(10)(11) (12)

45
1.77
35
1.38

188
7.40

(1) (2)

(3)

131
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