Box Module

SP5000SERIES

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)

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

×

Display Module

PFXSP5 * 00 * * D
(3) (4) (5) (6)

(3) Size		(4) Resolution		(5) Touch Panel		(6) Power Supply	
7	15 inch	T	TFT	P	Premium (Multi)	D	DC
6	12 inch	W	Wide TFT	A	Advanced (Analog)		
5	10 inch						
4	7 inch						

*Color selectable display modules are also available. In addition to Silver, there are three optional colors, Black Beige Off-white

■ Electrical Specifications

		Open Box	Power Box
		SP-5B40	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	Power Box
	SP-5B40	SP-5B10
Standards and Regulations	UL508 UL508 ANSI/ISA 12.12.01	
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

SP5000SERIES

■ Memory

	Open Box	Power Box
	SP-5B40	SP-5B10
Application Memory	Screen Size: 64MB *CFast card	Screen Size: 64MB *SD card
	Free Space: About 5GB *2	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	Power Box
	SP-5B40	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	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	

■ Structural Specifications

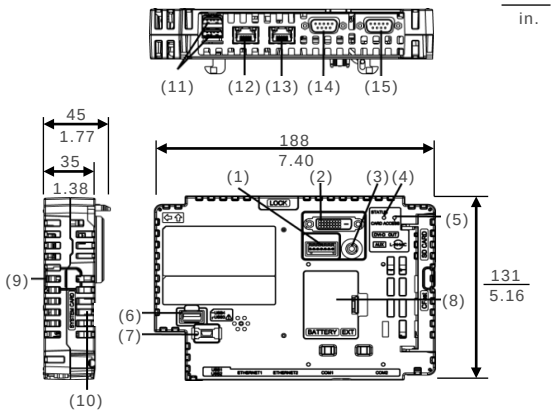
	Open Box	Power Box
	SP-5B40	SP-5B10
Cooling Method	Natural air circulation	
External Dimensions *3	W188 x H131 x D45 mm (W7.4 x H5.16 x D1.77 in.)	
Weight *3	0.9kg (1.98 lb) or less	

*3 External Dimensions and Weight for Box Module only

■ External dimensions/Parts Identifications

SP-5B40

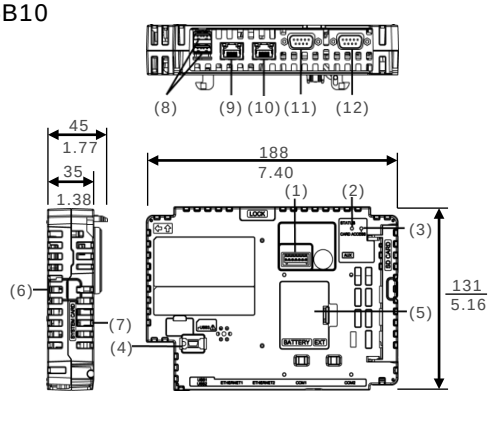
mm
in.



(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.



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