

by Schneider Electric

Graphic Operator Interface

SP5000 SERIES



Flagship Model of HMI for extensive use of information

SMART PORTAL

With increasingly sophisticated machine performance; production management and predictive maintenance utilizing operation data; and the growing popularity of the cloud, big data is coming to the manufacturing shop floor.

Pro-face has realized unprecedented connectivity in the new SMART PORTAL, creating a new interface designed firmly with the future in mind.

The SP5000 series allows a huge variety of data to be downloaded to SMART PORTAL and transmitted in an optimal format to those who need it.

SMART PORTAL connects information and people for optimal communication





Valuable information in the right format



Having more information is not necessarily better than having less. Value is created when the right information reaches the right people in the right format.

Bring your factory closer to your office



By segmenting the network, SMART PORTAL makes it possible to connect factories and offices while ensuring the highest security.

Simple to use —any time, any place



Overseas production and the diversification of market needs have increased the need for efficient machine setup and maintenance.



Check out the Movies

These movies will give you more information about SMART PORTAL concepts and benefits.





SMART PORTAL links two previously separate worlds



Shop Floor Network Connect various devices on your shop floor with programless. Accurately convey vital information in the right way at the right time.

Case 1 High performance HMI

Provide real-time response

Improves rendering performance and achieves real-time response. With high-speed processing ensuring high-speed rendering, SMART PORTAL replaces devices that have suffered from unsatisfactory response speed in the past.

Case 2 Application PC

Use as a built-in application PC

SMART PORTAL can be used in environments where PCs have been built into machines to allow the use of Windows applications. Dedicated apps can be used on the SMART PORTAL.

Case 3 Maintenance PC

Use as a maintenance PC

Manuals and all kinds of development tools can be saved in SMART PORTAL. There is no need to take a PC down to the factory every time maintenance work needs to be done.

Case 4 Data Collection PC

Use as a data collection PC

Separate IP addresses can be allocated for SMART PORTAL's two Ethernet ports. A network with the highest security can be built between the office and the factory. In addition, collected data can be stored on NVRAM to protect from data loss.

Display \times Box module design provides flexible functionality and size

- With a selection of six displays and two boxes available, there are twelve SMART PORTAL combinations to choose from. - Modular design allows the display to be attached to and detached from the box, making it possible to replace only parts that need replacing



HMI Screen Editor and Logic Programming Software

GP-Pro EX



Intuitive operation reduces development time required for screen creation



Data-collecting software that easily connects the production site to the office through a network with simple settings at low cost

Remote Monitoring Software for Mobile





Display and operate the factory via a tablet or smartphone.



PROFIBUS DP

Display Module - Premium Display



Model Number Configuration

Display Module	(1) Size		Wireless LAN	(3)	Resolution		(4) Touch Panel		Power
PFXSP5 * * * * * D	8	19"	60	Yes	т	TFT	С	Projected Capacitive (5 points multi-touch)	D	DC
(1) (2) (3) (4) (5)	7	15"	00	-	W	Wide TFT	Р	Resistive Film (analog, 2 points multi-touch)		
	6	12"					A	Resistive Film (analog, single-touch)		
	5	10"								
	4	7"								
*Color selectable display modules are available.			ther	e are three	e opti	onal colors,	Bl	ack Beige Off-white		
*Color selectable display modules are available. Coated models are also available as a customiz	. In additio	on to Silver,			•		BI	ack Beige Off-white		
	. In additio zed produ	on to Silver, ct. (SP-580	owc :	and SP-57	X	excluded)	BI	ack Beige Off-white		
Coated models are also available as a customiz	. In additio zed produ	on to Silver,	owc :	and SP-57	7) Clar	excluded)	BI	ack Beige Off-white		

Display Specifications

		Premium Display				
	SP-5800WC	SP-5700WC	SP-5700TP	SP-5660TP	SP-5600TP	SP-5500TP
Display Type	TFT color LCD					
Display Size	19" wide	15" wide	15"	12" 10"		10"
Resolution		68 pixels KGA)		1,024 x 768 pixels 800 x 600 pix (XGA) (SVGA)		800 x 600 pixels (SVGA)
Auto Scaling			Yes			
Effective Display Area	W409.8 x H230.4mm	W344.2 x H193.5mm	W304.1 x H228.1mm	W245.8 x H184.3mm V		W211.2 x H158.4mm
	(W16.13 x H9.07 in)	(W13.55 x H7.62 in)	(W11.97 x H8.98 in.)	(W9.68 x	H7.26 in.)	(W8.31 x H6.24 in.)
Display Colors			16 millio	on colors		
Backlight		White LED (Not user re	placeable. When replacemer	nt is required, contact your lo	cal Pro-face distributor.)	
Backlight Service Life		50,000 hours or more (co	ontinuous operation at 25 °C	[77 °F] before backlight brigh	tness decreases to 50%)	
Brightness Control		0100 (Adjusted with touch panel or software)				
Brightness Sensor	Yes					
Front USB Interface	Yes					
Touch Panel Type	Projected Capacitive	(5 points multi-touch)		Resistive Film (analog	g, 2 points multi-touch)	
Touch Panel Resolution	2,048	< 2,048		1,024	x 1,024	
Touch Panel Service Life	50 million tir	nes or more		1 million tin	nes or more	

Electrical Specifications

			Premium Display							
		SP-5800WC	SP-5700WC	SP-5700TP	SP-5660TP	SP-5600TP	SP-5500TP			
R	ated Input Voltage		1224 Vdc							
Ir	nput Voltage Limits			10.82	8.8 Vdc					
	Voltage Drop			12 Vdc : 1.25 ms or less	24 Vdc: 5 ms or less					
п	Max	19 W	17 W	22 W	23 W	21 W	15 W			
Power Con	When power is not supplied to devices via front USB	16 W or less	14 W or less	19 W or less	20 W or less	18 W or less	12 W or less			
Consumption	When screen turns off the backlight (Standby Mode)	8 W or less	6 W or less	6 W or less	8 W or less	6 W or less	6 W or less			
1	When screen backlight 20%	9 W or less	8 W or less	11 W or less	13 W or less	11 W or less	8 W or less			
	In-Rush Current	30 A or less								
1	oltage Endurance		1,000	Vac, 20 mA for 1 minute (be	tween charging and FG term	inals)				
In	sulation Resistance		50	0 Vdc, 10 MΩ or more (betwee	een charging and FG termina	lls)				

*1 Power Consumption for Display Module only.

Environmental Specification

		Premium Display					
	SP-5800WC	SP-5700WC	SP-5700TP	SP-5660TP	SP-5600TP	SP-5500TP	
Surrounding Air Temperature	055 °C (3	32131 °F)		060 °C (;	32140 °F)		
Storage Temperature			-2060 °C	(-4140 °F)			
Surrounding Air and Storage Humidity		10%90%	RH (Non condensing, wet bu	lb temperature 39 °C [102.2	°F] or less)		
Dust			0.1 mg/m3 (10-7 oz/ft3) or l	ess (non-conductive levels)			
Pollution Degree		For use in Pollution Degree 2 environment					
Corrosive Gases	Free of corrosive gases						
Atmospheric Pressure (Operating Altitude)	8001,114 hPa (2,000 m [6,561 ft] or lower)						
Vibration Resistance	IEC/EN 61131-2 compliant 59 Hz Single amplitude 3.5 mm (0.14 in.) 9150 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		C	Contact Discharge Method: 6 I	V (IEC/EN 61000-4-2 Level	3)		

■ Interface Specification

		Premium Display						
	SP-5800WC	SP-5700WC	SP-5700TP	SP-5660TP	SP-5600TP	SP-5500TP		
Wireless LAN	-	-	-	Yes	-	-		
USB(Type A)*2	Po	Connector: USB 2.0 (Type A) x 1, Power Supply Voltage: 5 Vdc ±5 %, Maximum Current Supplied: 500 mA, Maximum Transmission Distance: 5 m (16.4 ft)						
USB (mini B)		Connector: USB 2.0 (mini B) x 1, Maximum Transmission Distance: 5 m (16.4 ft)						

*2 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.

■ Wireless LAN Specification (Only for SP-5660TP)*3 *4

Standards	IEEE802.11b/IEEE802.11p/IEEE802.11n
Frequency Bandwidth	2.4 GHz
Channel Bandwidth	20 MHz
Channel	Access Point mode* <mark>5</mark> : 111ch Client mode* 6 : North America US: 111 ch, Japan JP: 113 ch, Europe EU: 113 ch, Korea KR: 113 ch, China CN:113 ch, Taiwan TW: 111 ch
Transmission Speed	IEEE802.11b : max 11Mbps, IEEE802.11g : max 54 Mbps, IEEE802.11n : max 72.2 Mbps
Action Mode	Client mode/Access Point mode
Communication Mode	Infrastructure
Network Authentication	Open, WPA-Personal, WPA2-Personal
Data Encryption	WEP (128 bit)(Open)*7, AUTO/TKIP (WPA-Personal), AES (WPA2-Personal)
Maximum Client Connections	10
Transmission Distance	You can connect only from the front of the display. The connection angle and distance depend on your operating environment, applications in use, and target communication devices. Conduct an operation test, including directivity, in the operating environment before use.

*3 Use Wireless LAN in a configuration with Open Box Module combined.

4 Do not use wireless communication for operation of device units. It's necessary to consider possibilities of communication interference.
 5 In Access Point mode, IEEE802.11d is not supported.

*6 If the surrounding access points do not support IEEE802.11d, channels are limited, from 1 to 11 ch.
 *7 In Access Point mode, WEP is not supported.

Structural Specification

		Premium Display						
	SP-5800WC	SP-5700WC	SP-5700TP	SP-5660TP	SP-5600TP	SP-5500TP		
Grounding		Functional grounding: Grounding resistance of 100 Ω , 2 mm2 (AWG 14) or thicker wire, or						
Cooling Method		your country's applicable standard (same for FG and SG terminals). Natural air circulation						
Structure *8		When using a factory-installed front USB cover: IP65F, IP67F. When using a front USB cover option (PFXZCDCVUS1): IP66F, IP67F, Type 4X (Indoor Use Only)/13 * The front face of this product when properly installed in an enclosure and not using the front panel USB port.						
External Dimensions	W483 x H337 x D69 mm (W19.02 x H13.27 x D2.72 in.)	W414 x H295 x D69 mm (W16.30 x H11.61 x D2.72 in.)	W397 x H296 x D67 mm (W15.6 x H11.7 x D2.64 in.)		41 x D67 mm 49 x D2.64 in.)	W272.5 x H214.5 x D67 mm (W10.73 x H8.44 x D2.64 in.)		
Panel Cut Dimensions *9	W465 x H319 mm (W18.31 x H12.56 in.)	W396 x H277 mm (W15.59 x H10.91 in.)	W383.5 x H282.5mm (W15.1 x H11.12 in.)		H227.5 mm (H8.96 in.)	W259 x H201 mm (W10.2 x H7.91 in.)		
Weight *10	6.8 kg (15.0 lb) or less	5 kg (11.0 lb) or less	4.5 kg (9.9 lb) or less	3.2 kg (7.1	I lb) or less	2.7 kg (5.9 lb) or less		

*8 The front face of this product, installed in a solid panel, has been tested using conditions equivalent to the standards shown in the specification.
 *9 For dimensional tolerance, everything +1/-0mm (+0.04/-0 in.) and R in angle are below R3 (R0.12 in.)
 *10 Weight for Display Module only

External Dimensions / Parts Identification / Panel Cut Dimensions



*11 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.

External Dimensions / Parts Identification / Panel Cut Dimensions



*12 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 othe devices, the installation wall could warp. To prevent warping, the installation surface may need to be strengthened.





SP-5600WA Model: PFXSP5600WAD SP-5500WA SP-5400WA Model: PFXSP5500WAD

7" wide WVGA

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

19" 60 15" 00 12" 10" 7" 5	Yes _ e are three	T W option	TFT Wide TFT	C P A Blac	Projected Capacitive (5 points multi-touch) Resistive Film (analog, 2 points multi-touch) Resistive Film (analog, single-touch) k Beige Off-white	D	DC
12" 10" 7"				A	Resistive Film (analog, single-touch)		
10" 7"	e are three	optio	nal colors,	_			
7"	e are three	optio	nal colors,	Blac	k Beige Off-white		
	e are three	optio	nal colors,	Blac	k Beige Off-white		
Silver, there	e are three	optio	nal colors,	Blac	k Beige Off-white		
		X					
		~					
odule Type	(7) Class	;				
	41						
	10	Pow					
ĺ	Box	Box 41	Box 41 Ope	Box 41 Open	Box 41 Open	Box 41 Open	Box 41 Open

Display Specifications

		Advanced Display					
	SP-5600WA	SP-5500WA	SP-5400WA				
Display Type	TFT color LCD						
Display Size	12" wide	7" wide					
Resolution	1,280 x 800 pix	800 x 480 pixels (WVGA)					
Auto Scaling							
Effective Display Area	ea W261.1 x H163.2 mm (W10.28 x H6.43 in.) W217.0 x H135.6 mm (W8.54 x H5.34 in.)		W154.1 x H95.9 mm (W6.06 x H3.78 in.)				
Display Colors	262,144 colors						
Backlight	White LED (Not user rep	placeable. When replacement is required, contact your loc	al Pro-face distributor.)				
Backlight Service Life	50,000 hours or more (co	ntinuous operation at 25 °C [77 °F] before backlight brigh	tness decreases to 50%)				
Brightness Control	0100 (Adjusted with touch panel or software)						
Brightness Sensor	· ·						
Front USB Interface	· ·						
Touch Panel Type	Resistive Film (analog)						
Touch Panel Resolution		1,024 x 1,024					
Touch Panel Service Life		1 million times or more					

Electrical Specifications

	Advanced Display							
		SP-5600WA	SP-5500WA	SP-5400WA				
R	ated Input Voltage		1224 Vdc					
Ir	nput Voltage Limits		10.828.8 Vdc					
	Voltage Drop		12 Vdc: 1.25 ms or less 24 Vdc: 5 ms or less		12 Vdc: 1.25 ms or less 24 Vdc: 5 ms or less			
σ	Max	11.5 W 8.5 W		6.5 W				
Power Cor	When power is not supplied to devices via front USB		-					
Consumption	When screen turns off the backlight (Standby Mode)	2.5 W	2.5 W or less 2 W or					
1	When screen backlight 20%	6 W or less	5 W or less	4 W or less				
	In-Rush Current	30 A or less						
V	/oltage Endurance	1,000	Vac, 20 mA for 1 minute (between charging and FG term	inals)				
In	sulation Resistance	50	0 Vdc, 10 M Ω or more (between charging and FG termina	ls)				

*1 Power Consumption for Display Module only.

Environmental Specification

	Advanced Display				
	SP-5600WA	SP-5500WA	SP-5400WA		
Surrounding Air Temperature		060 °C (32140 °F)			
Storage Temperature		-2060 °C (-4140 °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)	8001,114 hPa (2,000 m [6,561 ft] or lower)				
		IEC/EN 61131-2 compliant			
Vibration Resistance		59 Hz Single amplitude 3.5 mm (0.14 in.)			
Vibration Replatinee		9150 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 Voltage: 1,000 Vp-p			
Noise Immunity		Pulse Duration: 1 µs			
		Rise Time: 1 ns			
		(via noise simulator)			
Electrostatic Discharge Immunity	C	ontact Discharge Method: 6 kV (IEC/EN 61000-4-2 Level	3)		

■ Interface Specification

	Advanced Display					
	SP-5600WA	SP-5500WA	SP-5400WA			
Wireless LAN	· · · · · · · · · · · · · · · · · · ·					
USB (Type A)						
USB (mini B)						

Structural Specification

	Advanced Display					
	SP-5600WA	SP-5500WA	SP-5400WA			
Grounding	Functional grounding: Grounding resistance of 100 Ω , 2 mm2 (AWG 14) or thicker wire, or your country's applicable standard (same for FG and SG terminals).					
Cooling Method		Natural air circulation				
Structure *8	*	IP66F, IP67F, TYPE 4X (Indoor Use Only)/13 * on the front panel when properly installed in an enclosure.				
External Dimensions	W308.5 x H230.5 x D67 mm (W12.15 x H9.07 x D2.64 in.)	W268.5 x H198.5 x D67 mm (W10.57 x H7.81 x D2.64 in.)	W203.6 x H148.6 x D36 mm (W8.02 x H5.85 x D1.42 in.)* <mark>12</mark>			
Panel Cut Dimensions *9	W295 x H217 mm (W11.61 x H8.54 in.)					
Weight *10	3 kg (6.6 lb) or less 2.5 kg (5.5 lb) or less 1.2 kg (2.6 lb) or less					

*8 The front face of this product, installed in a solid panel, has been tested using conditions equivalent to the standards shown in the specification.
*9 For dimensional tolerance, everything +1/-0 mm (+0.04/-0 in.) and R in angle are below R3 (R0.12 in.)
*10 Weight for Display Module only
*12 When combined with Box Module, the depth is 67 mm (2.64 in.).

External Dimensions / Parts Identification / Panel Cut Dimensions



*11 Even it 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.

Box Module





SP-5B41 Model: PFXSP5B41

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

Display Module		(1) Size		(2) Wireless LAN		(3) Resolution		(4) Touch Panel		(5) Power Supply	
PFXSP5 * * * * * D	8	19"	60	Yes	Т	TFT	С	Projected Capacitive (5 points multi-touch)	D	DC	
$\overline{(1)} \overline{(2)} \overline{(3)} \overline{(4)} \overline{(5)}$	7	15"	00	-	W	Wide TFT	Р	Resistive Film (analog, 2 points multi-touch)			
	6	12"					А	Resistive Film (analog, single-touch)	1		
	5	10"									
	4	7"									
*Color selectable display modules are avail		1	to Sil	ver, ther	e are	three optio	onal c	colors, Black Beige Off-white			
*Color selectable display modules are avail Coated models are also available as a cust	able. In	addition	to Sil [,]	ver, ther	e are	three optic	onal c	colors, Black Beige Off-white			
• •	able. In	addition	to Sil [,]	ver, ther	e are	three optio	onal c	colors, Black Beige Off-white			
• •	able. In	addition	to Sil [,]	ver, ther	e are	three optio	onal c	colors, Black Beige Off-white			
Coated models are also available as a cust	able. In tomized	addition f			X	·	onal c	colors, Black Beige Off-white			
Coated models are also available as a cust Box Module	able. In tomized	addition			7) Clas	ss	onal c	colors, Black Beige Off-white]		
• •	able. In tomized	addition f	уре		7) Clas	·	onal c	colors, Black Beige Off-white]		

Electrical Specifications

		Open Box	Power Box		
		SP-5B41	SP-5B10		
Rated	Input Voltage	12 Vdc (Supply fro	m Display Module)		
Power	Max	25 W	25 W		
Consum ption*13	When power is not supplied to external devices		12.5 W or less		

*13 Power consumption for Box Module only

Environmental Specifications

	Open Box	Power Box					
	SP-5B41	SP-5B10					
Surrounding Air Temperature	060 °C (3	060 °C (32140 °F)					
Storage Temperature	-2060 °C	-2060 °C (-4140 °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 l	ess (non-conductive levels)					
Pollution Degree	For use in Pollution D	egree 2 environment					
Corrosive Gases	Free of corr	osive gases					
Atmospheric Pressure (Operating Altitude)	8001,114 hPa (2,000	8001,114 hPa (2,000 m [6,561 ft] or lower)					
	IEC/EN 6113	1-2 compliant					
Vibration Resistance	59 Hz Single amplit	ude 3.5 mm (0.14 in.)					
VIDIALION RESISTANCE	9150 Hz Fixed act	celeration: 9.8 m/s2					
	X, Y, Z directions for 10 c	X, Y, Z directions for 10 cycles (approx. 100 min.)					
Shock Resistance	IEC/EN 6113	IEC/EN 61131-2 compliant					
SHOCK RESISTANCE	147 m/s2, X, Y, Z di	147 m/s2, X, Y, Z directions for 3 times					
	Noise Voltage	Noise Voltage: 1,000 Vp-p					
Niciona Inconsumitur	Pulse Dura	ation: 1 µs					
Noise Immunity	Rise Tin	Rise Time: 1 ns					
	(via noise	simulator)					
Electrostatic Discharge Immunity	Contact Discharge Method : 6	Contact Discharge Method : 6 kV (IEC/EN 61000-4-2 Level 3)					

Box Module

Memory

	Open Box	Power Box		
	SP-5B41	SP-5B10		
Application Momony	Screen Size: 64 MB *CFast card	Screen Size: 64 MB *SD card		
Application Memory	Free Space: About 17 GB *14	Free Space: None		
Backup Memory	NVRAM 320 KB			
Control Memory	-	64 KB		

*14 You can install the applications you have used. As for hardware specifications, the CPU is Intel® Atom E3825 1.33GHz (Dual core/Dual thread) and the main memory is 'DDR3L SDRAM 2GB'. For the other hardware specifications, refer to "SP5000 Series Open Box Reference Manual".

Interface Specifications

	Open Box	Power Box			
	SP-5B41	SP-5B10			
Serial Interface COM1	Parity: None, odd, or even, Data Transmiss	i: 7 or 8 bits, Stop Bit: 1 or 2 bits sion Speed: 2,400(1,200)to 115,200 bps 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 *2	Connector: USB 2.0 (Type A) x 3 Power Supply Voltage: 5 Vdc ±5% Maximum Current Supplied: 500 mA /port, 1 A total for 3 ports Maximum Transmission Distance: 5 m	Connector: USB 2.0 (Type A) x 2 Power Supply Voltage: 5 Vdc ±5% Maximum Current Supplied: 500 mA / port Maximum Transmission Distance: 5 m			
USB (mini-B) Interface	Connector: USB 2.0 (mini-B) x 1, Maxin	num Transmission Distance: 5m (16.4 ft)			
Ethernet Interface	Standard: IEEE802.3i/IE 10BASE-T/10 Connector: Modul	00BASE-TX/1000BASE-T			
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: 300 mW (Rated Load: 8 Ω, Frequency : 1kHz) LINE Output: Rated load: 10 kΩ or more Connector: 2-piece terminal block (AUX) x 1				
AUX Input /Output Interface	Alarm Output / Buzzer Output Rated Voltage: 24 Vdc, Rated Current: 50 mA or less Connector: 2-piece terminal block x 1				

*2 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	Power Box			
	SP-5B41	SP-5B10			
Cooling Method	Natural air	circulation			
External Dimensions *15	W188 x H131 x D45 mm				
External Dimensions 13	(W7.4 x H5.16 x D1.77 in.)				
Weight *15	0.9 kg (1.98 lb) or less				

*15 External Dimensions and Weight for Box Module only

External Dimensions / Parts Identifications



(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)



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

Your choice of platform

