



PS-4600



● Model Name Indication

PFXP * 1 6 * * * * * * * * N00
 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10)

(1) Front Bezel		(2) Display		(3) Expansion Slot			(4) CPU Type		(5) Power Supply		
P	Aluminum	6	12" XGA	0	0 slot		D	Celeron® M 827E		A	AC
F	Rear Mount			1	1 slot = 1 PCI		E	Core™ i3-3217UE		U	AC with I/F for UPS battery unit
				C	1 slot = 1 PCIe					D	DC
				2	2 slots = 1 PCI + 1 PCIe					B	DC with I/F for UPS battery unit
				A	2 slots = 2 PCI						

(6) RAM		(7) OS		(8) Storage Device		(9) Slide-in Slot		(10) Options	
1	1GB	0	None	N	None	0	None	0	None
2	2GB	1	Windows Embedded Standard 2009	G	CFast 4GB	1	DVD multi drive	4	COM Expansion Board RS-232C/422/485
3	3GB (2GB+1GB)	2	Windows XP Pro Japanese	H	CFast 8GB	2	HDD 500GB	W	COM Expansion Board RS-232C/422/485 + COM Expansion Board RS-232C/422/485
5	4GB (4GB)	3	Windows XP Pro MUI	J	CFast 16GB	3	SSD 60GB		
6	6GB (4GB+2GB)	4	Windows Embedded Standard 7 (32bit)	L	CFast 4GB + CFast 4GB				
8	8GB (4GB+4GB)	5	Windows 7 Ultimate (32bit)	M	CFast 8GB + CFast 4GB				
C	12GB (8GB+4GB)	6	Windows 7 Ultimate (64bit)	P	HDD 500GB				
G	16GB (8GB+8GB)			T	SSD 60GB				


*Selection is restricted depending on a combination.

● Replacement to the latest model

Series	Power Supply	Recommended Substitute	Power Supply
APL3600-TA *Last Order Apr.30, 2014	AC/DC	PS-4600	AC/DC
PS-3650A-T42 (-24V) *Last Order Apr.30, 2014	AC/DC	PS-4600	AC/DC
PS-3650-T42S (-24V) *Last Order Apr.30, 2014	AC/DC	PS-4600	AC/DC

Refer to the "Replacement Guidebook" which describes compatibility and specification comparison with PS4000 series.
<http://global.pro-face.com/content/replacement-latest-models>

● General Specifications

	Aluminum Bezel Model	No Bezel (Rear mount) Model	
CPU	Core™ i3-3217UE 1.60 GHz / Celeron® M 827E 1.40 GHz		
Bezel	Aluminum	-	
International Safety Standards			
Rated Input Voltage	AC Power Model: 100 to 240 Vac DC Power Model: 24 Vdc ±25 %		
Rated Frequency	AC Power Model: 50/60 Hz		
Power Consumption	AC Power Model: 130 W DC Power Model: 130 W*1		
In-Rush Current	AC Power Model: < 20 A (Cold restart, 100% load, 100 Vac) DC Power Model: Typ. 7 A, max. 60 A < 300 µs		
Surrounding Air Temperature	When using HDD running with a fan kit, SSD or CFast: 0 to 50 °C [32 to 122 °F] When using Gigabit Ethernet: 0 to 45 °C [32 to 113 °F] When using DVD multi drive: 5 to 45 °C [41 to 113 °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	EN/IEC 60068-2-6 Fc Operation (continuous) for 6 Fc products with SSD or CF card storage device: 2 to 9 Hz: 1.5 mm [0.06 in.], 9 to 200Hz: 4.9 m/s ² , 5 to 8.4 Hz: 1.75 mm [0.07 in.], 8.4 to 150 Hz: 4.9 m/s ² Operation (continuous) for products with HDD storage device: 5 to 100 Hz: 1.225 m/s ² Operation (occasional) for products with SSD or CF card storage device: 2 to 9 Hz: 3 mm [0.12 in.], 9 to 200 Hz: 9.8 m/s ² , 5 to 8.4 Hz: 3 mm [0.12 in.], 8.4 to 150 Hz: 9.8 m/s ² Operation (occasional) for products with HDD storage device: 5 to 100 Hz: 2.450 m/s ²		
Concussion Resistance	147 m/s ² 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	IP65, Type 4X (Indoor use only) *2	-	
Cooling Method	Passive heat sink for the operation without HDD storage device into Slide-in Disk. Optional fan kit necessary for the operation with HDD storage device into Slide-in Disk.		
Weight Approx.	0 Slot	4.0 kg [8.81 lb]	3.9 kg [8.59 lb]
	1 Slot	4.1 kg [9.03 lb]	4.0 kg [8.81 lb]
	2 Slot	4.2 kg [9.26 lb]	4.1 kg [9.03 lb]
External Dimensions	0 Slot	W313 x H239 x D68.5 mm [W12.32 x H9.41 x D2.696 in.]	W292 x H246 x D69 mm [W11.50 x H9.69 x D2.71 in.]
	1 Slot	W313 x H239 x D123.2 mm [W12.32 x H9.41 x D4.85 in.]	W292 x H246 x D123.7 mm [W11.50 x H9.69 x D4.87 in.]
	2 Slot	W313 x H239 x D143.5 mm [W12.32 x H9.41 x D5.649 in.]	W292 x H246 x D144 mm [W11.50x H9.69 x D5.66 in.]
Panel Cut Dimensions	W301.5 +1/0 mm x H227.5 +1/0 mm [11.87 +0.04/0 in. x 8.96 +0.04/0 in.]	W270 +1.0/0 mm x H206 +1.0/0 mm [10.63 +0.04/0 in. x 8.11 +0.04/0 in.]	

*1 : The value does not include the power supplied to USB devices, which you attach. The product's maximum power consumption including the power supplied to them is 130W.

*2 : When the front USB cover is closed on the models except for Rear Mount Model

● Functional Specifications

	Aluminum front bezel model	No Bezel (Rear mount) Model	
Display Size	12.1"		
Display Colors	16 million		
Backlight	LED Life span > 50,000 h @ 25 °C [77 °F]		
Brightness Control	Step less adjustment		
Supported OS	HDD or SSD: Windows® XP Professional SP3 (32bit) or Windows® 7 Ultimate (32 or 64bit) CFast: Windows® Embedded Standard 2009 (32bit) or Windows® Embedded Standard 7 Premium (32bit) *3		
L2 Cache Memory	Core™ i3: 3MB/ Celeron®: 1.5MB		
Main Memory	DDR3: 1 GB to 16 GB max.		
Chipset	Core™ i3: Intel® QM77/Celeron®: Intel® HM76		
Graphics Accelerator	Core™ i3: Intel® HD Graphics 4000 Celeron® M: Intel® HD Graphics 3000		
Video Memory	Up to 1 GB*4		
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	Serial ATA*5	0 Slot	Slide-in Disk: (HDD, SSD or CFast with Slide-in Disk Adapter unit) x1 CFast: x1
		1 Slot	Slide-in Disk: (HDD, SSD or CFast with Slide-in Disk Adapter unit x1 Slide-in Slot: (DVD-RW or HDD, SSD, CFast (with Slide-in Disk Adapter unit) through Slide-in Slot Adapter unit) x1
		2 Slot	CFast: x1
	Serial (COM1)	RS-232C (D-Sub 9-pin, plug)	
	Serial (COM2)	RS-232C (D-Sub 9-pin, plug)	
	Ethernet (LAN1)	10/100/1000 Mbit/s (RJ-45 Modular jack)	
	Ethernet (LAN2)	10/100/1000 Mbit/s (RJ-45 Modular jack)	
	USB (TYPE-A)	USB 2.0 x4 (bottom side), USB 2.0 x1 (front side - not equipped with Rear Mount Model) *6	
Video	DVI-I x1		

*3 : For details on languages supported by pre-installed operating systems, read "The List of OS Pre-installed Languages for Multi-language". For Windows® Embedded Standard 2009, 4 GB CFast or more is required. For Windows® Embedded Standard 7 Premium, 8 GB CFast or more is required.

*4 : Reserved from main memory

*5 : Modifying products to install an HDD into a Slide-in Disk when it was not installed from factory, requires to change the unit firmware settings for proper behavior of the fan (that are required when running with HDD into a Slide-in Disk) - Please contact Pro-face support if you want to proceed such modification.

*6 : USB 3.0 is equipped with Core™ i3 models of Windows® 7 or Windows® Embedded Standard 7. Maximum 500 mA per connection for USB5 Maximum 1 A per connection for USB1, USB2, USB3 and USB4. USB5 is not equipped with Rear Mount Model

● Aluminum Bezel Model

<External Dimensions/Description>

<Panel Cut Dimensions>

The thickness of the installation panel 1.6 to 9 [0.06 to 0.35 in.]

(1) USB2
 (2) USB4
 (3) DVI-I
 (4) COM1
 (5) Add-on interface module slot 2 (IF2)
 (6) Add-on interface module slot 1 (IF1)
 (7) USB1
 (8) ETH1 (10/100/1000 MBit)
 (9) ETH2 (10/100/1000 MBit)
 (10) USB3 (Type A)
 (11) MIC, Line IN, Line out
 (12) COM2
 (13) DC power connector
 (14) Front USB (USB5 max. 500 mA) with cover (Except for Rear Mount Model)
 (15) PCI / PCIe slot half size
 (16) Power switch
 (17) AC power connector (with AC terminal block)
 (18) Power/Reset buttons
 (19) Slide-in Disk
 (20) Main memory cards
 (21) CFast slot
 (22) Lithium Battery

PS-4600	"A" Value
1 slot	114.2 mm [4.496 in.]
2 slots	134.5 mm [5.295 in.]

● Rear Mount Model

<External Dimensions> For each part's name, refer to the descriptions of the aluminum front bezel model above.

<Panel Cut Dimensions>

PS-4600	"A" Value
1 slot	121.7 mm [4.791 in.]
2 slots	142 mm [5.591 in.]