



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.]

Measurement "A" depends on the number of slot PCI/PCIE cards

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

● Rear Mount Model

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

<Panel Cut Dimensions>

Measurement "A" depends on the number of slot PCI/PCIE cards

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