

# Smooth system integration of Pro-face products is assured with a total support network.

## WORLDWIDE SUPPORT

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### Our Environmental Policy and Compliance with the RoHS Directive

Pro-face has taken significant steps to meet increasingly stringent requirements for environmental preservation and has sought to comply with the RoHS Directive by adopting measures to eliminate specified harmful substances from existing products and products to be manufactured and sold beginning in 2006. For details, please refer to our web site or contact our sales office in your country.

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**Caution:** Before operating any of these products, be sure to read all related manuals thoroughly.

- For printing purposes, the colors in this catalog may differ from those of the actual unit.
- Actual user screens may differ from the screens shown here.
- LCD screens may exhibit minute grid-points (light and dark) on the Display Panel surface. Also, "Contouring" - where some parts of the screen are brighter than others, producing a wavelike pattern - may occasionally occur. Both are normal for an LCD display and are not defects.
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IT/IT0611-IPCALL-04E12

# Pro-face®

Industrial Personal Computer



Reliability

Availability

Serviceability





- PS-3700A
- 3701A
- 3650A
- 3651A
- PL-7930T
- 7931T
- 6930T
- 6931T
- PS-3600G
- 400G
- PS-2000B
- FP-3710T
- 3650T
- 3600T
- 3500T







ISO9001  
JQA-1367



# Industrial Personal Computer

# Wide lineup to suit users' applications and functions!!





<b>PL SERIES</b> Advanced panel computers for the ultimate in reliability, performance and scalability.				
	>>> P3		>>> P3	
Product Name	PL-7930T	PL-7931T	PL-6930T	PL-6931T
Screen Size (Graphics)	15 inch XGA (1024 x 768 Pixels)		12.1 inch SVGA (800 x 600 Pixels)	
Supported OS	Windows®2000/ Windows®XP			
Windows®XP Embedded*1	○			
CPU	Intel® Pentium® M1.6GHz/Intel® Celeron® M1.3GHz			
Rated Voltage	AC100V/240V(50/60Hz)			
Expansion Slots	PCI/ISA x 2, ISA x 1, PCI x 1	PCI/ISA x 1, ISA x 1	PCI/ISA x 2, ISA x 1, PCI x 1	PCI/ISA x 1, ISA x 1
Fanless	○ (End of model number:T41)			

<b>PS SERIES</b> -Type G- Panel computers pre-installed with the Windows®CE operating system.			<b>PS SERIES</b> -Type B- Built-in computers supporting Windows®2000 and XP operating systems.	
	>>> P9			>>> P11
Product Name	PS-3600G	PS-400G	Product Name	PS-2000B
Screen Size (Graphics)	12.1 inch SVGA (800 x 600 Pixels)	7.4 inch VGA (640 x 480 Pixels)	Screen Size (Graphics)	VGA (640 x 480 Pixels) to UXGA (1600 x 1200 Pixels)
Supported OS	Windows®CE 5.0	Windows®CE 3.0	Supported OS	Windows®2000/ Windows®XP Windows®XP Embedded*3
Windows®XP Embedded*1	○		Windows®XP Embedded*1	○
CPU	Intel® PXA270 520MHz (XScale® technology)	SH4 200MHz	CPU	Intel® Celeron® 566MHz / Intel® Pentium® III 1GHz
Rated Voltage	AC100V/240V(50/60Hz) DC24V	DC24V	Rated Voltage	AC100V/240V(50/60Hz)
Expansion Slots	○		Expansion Slots	PCI x 3 slots / PCI/ISA x 4, PCI x 2
Fanless	○		Fanless	○

<b>PS SERIES</b> -Type A- Compact panel computers now available in a new lineup of stylish, high-performance designs.				
	>>> P5		>>> P7	
Product Name	PS-3700A	PS-3701A	PS-3650A	PS-3651A
Screen Size (Graphics)	15 inch XGA (1024 x 768 Pixels)		12.1 inch XGA (1024 x 768 Pixels)	
Supported OS	Windows®2000/ Windows®XP/ Windows®XP Embedded/ Windows®CE4.2.NET*2			
Windows®XP Embedded*1	○			
CPU	Intel® Pentium® 4-M 1.7GHz Eden™ ESP6000 667MHz	Eden™ ESP6000 667MHz	Intel® Celeron® M1.3GHz	Intel® ULV Celeron® M600MHz
Rated Voltage	AC100V/240V(50/60Hz)	DC24V	AC100V/240V(50/60Hz)	
Expansion Slots	PCI x 1 slot	○	PCI x 1 slot	○
Fanless	○			

<b>FP SERIES</b> Premium flat-panel displays featuring Digital Video Interface (DVI) standard compatibility.				
	>>> P13		>>> P13	
Product Name	FP-3710T	FP-3650T	FP-3600T	FP-3500T
Screen Size (Graphics)	15 inch XGA (1024 x 768 Pixels)	12.1 inch XGA (1024 x 768 Pixels)	12.1 inch SVGA (800 x 600 Pixels)	10.4 inch VGA (640 x 480 Pixels)
Display Color	16,777,216 colors		262,144 colors	
Contrast Adjustment	Adjustable via OSD			

**Special Hardware Solutions**  
 <Open-Frame Type>

 <b>UF7811</b> XGA Model: UF7811-2-DV1-24V TFT Color LCD CE	 <b>UF6610</b> SVGA Model: UF6610-2-1 TFT Color LCD CE	 <b>UF5510</b> VGA Model: UF5510-2-1 TFT Color LCD CE	 <b>UF5310</b> VGA Model: UF5310-2 TFT Color LCD CE
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Models for every purpose

### Stable long-term supply

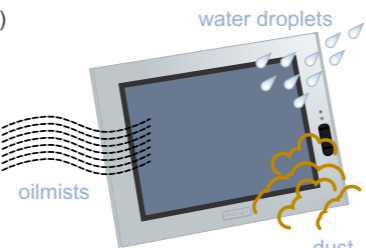
**For a stable long-term supply that only Pro-face can achieve!**

Pro-face has developed a product design that can endure 24-hour continuous operation as well as the carrying out of strict quality evaluations and inspections starting from its parts. The parts are designed exclusively for embedding, ensuring a long-term stable supply compared to that of office automation PCs.

### Environmental resistance

**Tough in harsh production sites because of excellent environmental resistance qualities!**

An IP65f rated overlay (front sheet) protects the panel from oil mists, water droplets, dust, etc. Excellent resistance to vibration and behaviors including those that generate high temperatures ensures reliable operations in FA sites.



### Maintenance

**Easy replacement using a cartridge disk**

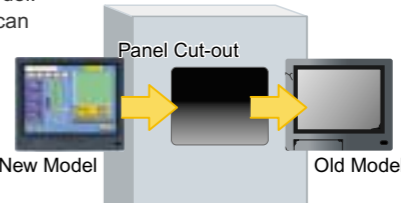
The cartridge disk system allows simple and easy detachment and replacement of the hard disk drive and CF card unit. The time spent on maintenance can be shortened dramatically.



### Backward compatibility model

**Compatibility in panel cutout dimensions!**

In any single system, the display alone can be replaced easily with a new model. The data resources can be reused, bringing about a stable, long-term supply of compatible OS.



### Diskless

**Booting from a CF card enabled!**

Diskless systems such as Windows®XP Embedded ensures stable operations.

\*1 For details about the amount of available free space on Windows® XP Embedded supported CF card and available languages in Multi-Language, see page 17.  
 \*2 PS-3701A only  
 \*3 PS2000B-41 only

# 15 and 12.1-inch/ TFT color LCD panel computers with Intel® Pentium® M 1.6GHz/ Celeron® M 1.3GHz CPU, giving the fastest performance in the industry!



## Features

- Hard disk drive or CF card-bootable
- Touch-panel mouse emulation (Included with this OS-preinstalled model)
- Reliability, Availability and Serviceability (RAS) utility
- Embedded operating systems support (Diskless operation when using CF card)\*1
- Replaceable backlight
- IP65f
- Built to order and shipped with your choice of options
- Fanless (End of model number: T41)
- Dual hard disk drive (cartridge type) supported
- Compliant with RoHS directive
- International safety standards approval: UL, CE labeled



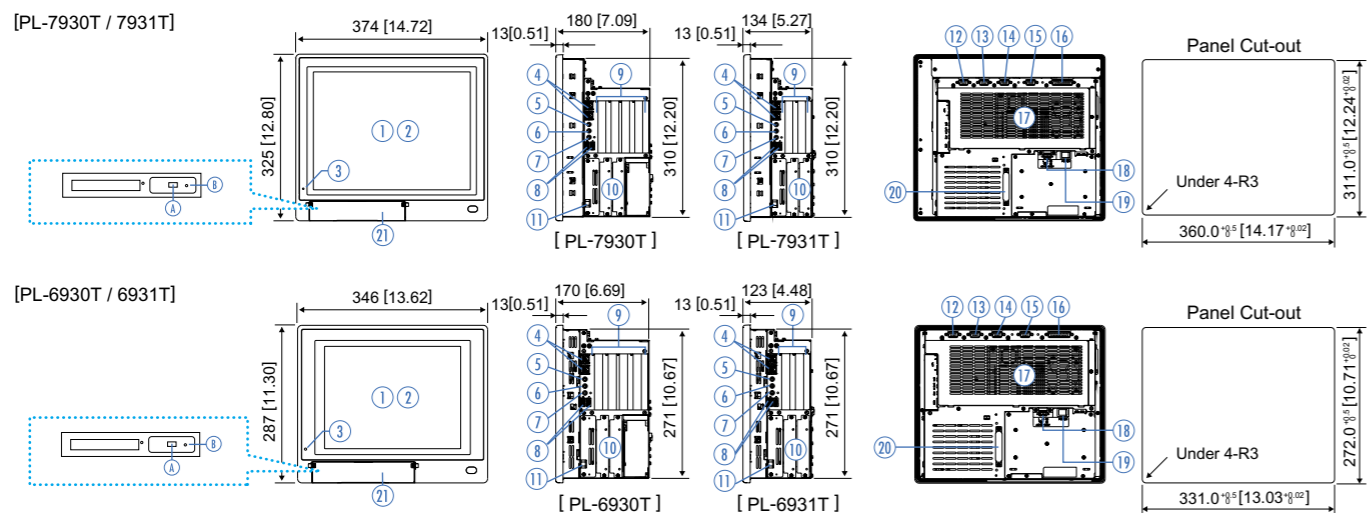
PL-7930T/7931T

XGA 15 inch  
Pre-installed OS\*2 Embedded OS  
Windows® 2000 Windows® XP Windows® XP Embedded

PL-6930T/6931T

SVGA 12.1 inch  
Pre-installed OS\*2 Embedded OS  
Windows® 2000 Windows® XP Windows® XP Embedded

### External Dimensions, Interface



1 Display Area	8 USB Connector	15 RS-232C Connector (COM4)	20 IDE I/F Cover
2 Touch Panel	9 PCI/ISA Expansion Slots (1 slot from front face)	16 RAS Connector	21 Front Maintenance Cover
3 Power Lamp LED/RAS Status Lamp	10 HDD/CF Card Unit Expansion Slots	17 Rear Maintenance Cover	① USB Connector
4 LAN (Ethernet) Connector	11 PCMCIA/CARD BUS Slot	18 AC Power Connector	② Hardware Reset Switch(RESET)
5 MIC Input Connector (MIC IN)	12 RS-232C Connector (COM1)	19 Power Switch	
6 Speaker Output Connector (SPEAKER OUT)	13 RS-232C Connector (COM2) <RI/+5V changeover>		
7 Line Input Connector (LINE IN)	14 RS-232C Connector (COM3) <RI/+5V changeover>		

\*1 For compatibility, see page 17.  
\*2 Hard disk drives are available pre-installed with Windows® 2000, Windows® XP. Windows® 2000 refers to Windows® 2000 Professional, and Windows® XP refers to Windows® XP Professional.

## Specifications

### Performance Specifications

		Specifications							
Model	PL7930-T41	PL7930-T42-★★	PL7931-T41	PL7931-T42-★★	PL6930-T41	PL6930-T42-★★	PL6931-T41	PL6931-T42-★★	
Supported OS	Windows®2000/ Windows®XP/ Windows®XP Embedded								
CPU	Celeron®M 1.3GHz	Final model number PM--Pentium®M 1.6GHz CM--Celeron®M 1.3GHz	Celeron®M 1.3GHz	Final model number PM--Pentium®M 1.6GHz CM--Celeron®M 1.3GHz	Celeron®M 1.3GHz	Final model number PM--Pentium®M 1.6GHz CM--Celeron®M 1.3GHz	Celeron®M 1.3GHz	Final model number PM--Pentium®M 1.6GHz CM--Celeron®M 1.3GHz	
BIOS	Phoenix First BIOS Embedded Pro								
Main Memory	DDR DRAM 256MB (DIMM socket x 1: 1GB max.)								
Graphics	XGA (1024 x 768 pixels)				SVGA (800 x 600 pixels)				
Video Memory	Max 64MB (UMA type)								
Display	Display Type	TFT Color LCD (15 inch)				TFT Color LCD (12.1 inch)			
	Display Colors	262,144 Colors							
	Effective Display Area (W x H)	304.1mm [11.97in.] x 228.1mm [8.98in.]				246.0mm [9.69in.] x 184.5mm [7.26in.]			
Touch Panel	Backlight	CCFL (replaceable)							
	Type	Resistive Film (analog)							
	Resolution	1024 x 1024							
Interfaces	Serial	RS-232C (w/FIFO)		COM1 (D-Sub 9-pin male) COM2 (D-Sub 9-pin male)<RI/+5V changeover>*1 COM3 (D-Sub 9-pin male)<RI/+5V changeover>*1 COM4 (D-Sub 9-pin male)					
	USB	Front 1 port, Side 2 ports (USB Ver.2.0 compatible)							
	Ethernet	10 BASE-T/100 BASE-TX Auto change Side 2 ports							
	Disk	E-IDE Interface: 2.5inch HDD Interface x 2							
	RAS	RAS Interface (D-Sub 25-pin, male)							
	PCMCIA	TypeII 1 slot CARDBUS supported (*Zoomed Video and Sound excluded)							
	Sound	SPEAKER OUT, LINE IN, MIC IN							

\*1 Can be exchanged with RS-485 when using an RS-232C/485 conversion unit (optional).

### General Specifications

		Specifications								
Model	PL7930-T41	PL7930-T42-★★	PL7931-T41	PL7931-T42-★★	PL6930-T41	PL6930-T42-★★	PL6931-T41	PL6931-T42-★★		
Electrical	Rated Voltage (Rated Frequency)	AC100V/AC240V(50/60Hz)								
	Power Consumption	150VA or less		130VA or less		150VA or less		130VA or less		
	Allowable Voltage Drop	Shorter than 1 cycle (Note that pause occurrences must be more than 1 second apart)								
	Voltage Endurance	AC1500V 20mA for 1 minute (between charging and FG terminals)								
Environmental	Insulation Resistance	10MΩ or more at DC500V (between charging and FG terminals)								
	Ambient Operating Temperature	Cabinet Interior	When HDD attached: 5°C to 40°C	When HDD attached: 5°C to 50°C	When HDD attached: 5°C to 40°C	When HDD attached: 5°C to 50°C	When HDD attached: 5°C to 40°C	When HDD attached: 5°C to 50°C	When HDD attached: 5°C to 40°C	When HDD attached: 5°C to 50°C
		Panel Face	5°C to 40°C							
	Ambient Humidity	10%RH to 85%RH (no condensation)(wet-bulb temperature: 29°C or lower)								
	Storage Temperature	-10°C to +60°C								
	Storage Humidity	10%RH to 85%RH (no condensation)(wet-bulb temperature: 29°C or lower)								
	Corrosive Gases	Free of corrosive gases								
	Noise Immunity (via noise simulator)	Noise Voltage: 1500Vp-p Pulse Duration: 50ns, 500ns, 1μs Rise Time: 1ns								
	Grounding	Protective and Functional Grounding: D-type grounding								
	Electrostatic Discharge Immunity	4kV(IEC 61000-4-2)								
Vibration Resistance	19.6m/s² (10Hz to 25Hz in X, Y, Z directions for 30 minutes) When using HDD:4.9m/s²									
Structural	Ratings	Equivalent to IP65f (only for the front area when the panel is installed)*3								
	Cooling Method	Natural Air Cooling by Heat Sink	Forced Air Cooling by CPU Fan	Natural Air Cooling by Heat Sink	Forced Air Cooling by CPU Fan	Natural Air Cooling by Heat Sink	Forced Air Cooling by CPU Fan	Natural Air Cooling by Heat Sink	Forced Air Cooling by CPU Fan	
	Weight	Approx. 10.5kg [23.1lb]				Approx. 9.5kg [20.9lb]				
	External Dimensions (W x H x D)	374mm [14.72in.] x 325mm [12.80in.] x 180mm [7.09in.] (Excluding the rear projections)		374mm [14.72in.] x 325mm [12.80in.] x 134mm [5.28in.] (Excluding the rear projections)		346mm [13.62in.] x 287mm [11.30in.] x 170mm [6.69in.] (Excluding the rear projections)		346mm [13.62in.] x 287mm [11.30in.] x 123mm [4.84in.] (Excluding the rear projections)		
	Dimensions Including Full-sized Cover (W x H x D)*4	422mm [16.61in.] x 325mm [12.80in.] x 180mm [7.09in.] (Excluding the rear projections)		422mm [16.61in.] x 325mm [12.80in.] x 134mm [5.28in.] (Excluding the rear projections)		393mm [15.47in.] x 287mm [11.30in.] x 170mm [6.69in.] (Excluding the rear projections)		393mm [15.47in.] x 287mm [11.30in.] x 123mm [4.84in.] (Excluding the rear projections)		

\*2 "Ambient Operating Temperature" indicates the cabinet interior or panel face temperature. When the HDD is not attached, you can use the product at 0°C or higher.

\*3 Meets IP65f testing requirements. Operation is not, however, guaranteed in every environment. \*4 Prior to installing a full-sized board cover, be sure to install the PL in the panel.

### Expansion Slots

	PL-7930T, PL-6930T (4-slot type)	PL-7931T, PL-6931T (2-slot type)	Board Size	
			Standard	When using the full-sized cover
1st slot	ISA	ISA	163mm [6.42in.] x 122mm [4.80in.]	
2nd slot	PCI 2.2 (5V)	PCI/ISA	250mm [9.84in.] x 340mm [13.39in.]	
3rd slot	PCI/ISA	---	x x	
4th slot	PCI/ISA	---	122mm [4.80in.] x 122mm [4.80in.]	
Power Supply	5V:4A, 12V:1.0A, -12V:0.1A (Total for 4 slots) 3.3V:1.5A (Only PCI: Total for 3 slots) -5V:0.1A (Only ISA: Total for 3 slots)	5V:2A, 12V:0.5A, -12V:0.1A (Total for 2 slots) 3.3V:0.5A (Only PCI) -5V:0.1A (Only ISA: Total for 2 slots)		

# 15-inch TFT color LCD compact panel computers with Pentium® 4-M 1.7GHz or Eden™ ESP6000 667MHz CPU.



## Features

- Hard disk drive or CF card-bootable
- Touch-panel mouse emulation (Included with this OS-preinstalled model)
- Reliability, Availability and Serviceability (RAS) utility
- Embedded operating systems support (Diskless operation when using CF card)<sup>\*1</sup>
- VESA standard for mounting on arm or stand
- Replaceable backlight
- Rugged aluminum body
- IP65f (JEM1030)
- Built to order and shipped with your choice of options
- Fanless (only for PS-3701A)
- Compliant with RoHS directive
- International safety standards approval: UL, CSA and CE labeled



PS-3700A/3701A XGA 15 inch

Pre-installed OS<sup>\*2</sup> Embedded OS<sup>\*1</sup> <sup>\*3</sup>

Windows® 2000 Windows® XP Windows® XP Embedded Windows® CE 4.2.NET

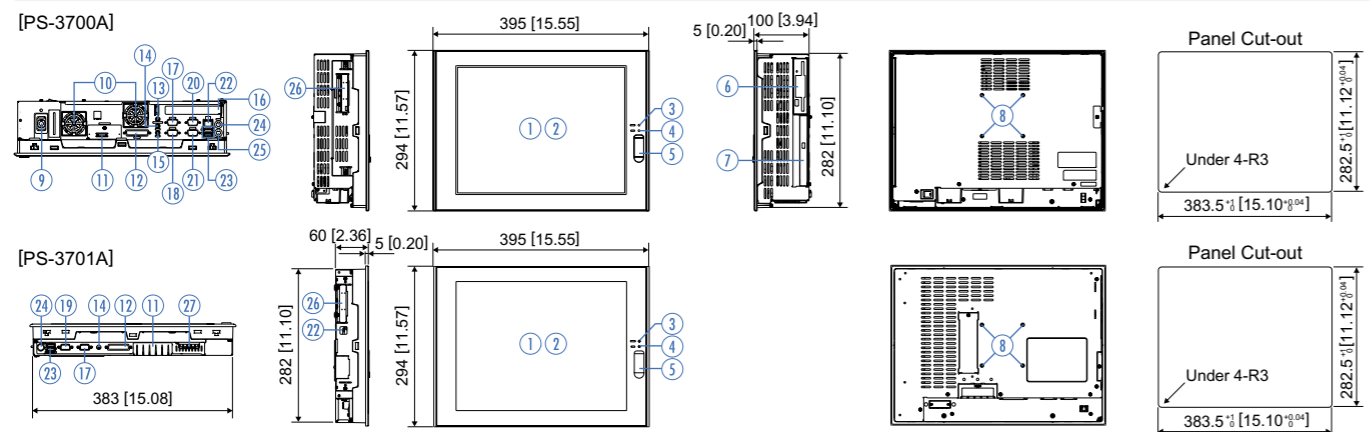
### PS-3701A Options

Stylish stand option suitable for POP or information terminals

15-inch type cover (Model number: CA4-CVR15-01) 15-inch type stand<sup>\*1</sup> (Model number: CA4-STD15-01) Power supply unit (Model number: CA4-PWU15-01)

<sup>\*1</sup> Using the 15-inch type stand also requires the 15-inch type cover (Model number: CA4-CVR15-01).  
<sup>\*2</sup> When the cover and stand are attached to the PS-3701A and power supply unit, the system does not comply with the CE, UL, and CSA standards.

### External Dimensions, Interface



- |   |   |   |                                |
|---|---|---|--------------------------------|
| 1 Display Area  | 8 Arm Attachment Compatible (VESA 75mm)   | 15 Mic Input Connector (MIC IN)                       | 22 LAN (Ethernet) Connector    |
| 2 Touch Panel   | 9 AC Power Connector                      | 16 Expansion Slot                                     | 23 USB Connector               |
| 3 Power Lamp LED/RAS Status Lamp                      | 10 Cooling FAN                            | 17 RS-232C Connector (COM1)-RI/+5V changeover         | 24 Keyboard Connector          |
| 4 IDE Access Lamp                                     | 11 CF Card Slot                           | 18 RS-232C Connector (COM2)-RI/+5V changeover         | 25 Mouse Connector             |
| 5 Front Panel (Hardware Reset Switch / USB Connector) | 12 Printer Connector (LPT)                | 19 RS-232C Connector (COM2)-RS-232C/RS-485 changeover | 26 PCMCIA Connectors (2 ports) |
| 6 FD Drive  | 13 Line Input Connector (LINE IN)         | 20 RS-232C Connector (COM3)-RS-232C/RS-485 changeover | 27 Power Input Terminal Block  |
| 7 CD-ROM Drive  | 14 Speaker Output Connector (SPEAKER OUT) | 21 RS-232C Connector (COM4)                           |                                |

<sup>\*1</sup> For compatibility, see page 17.  
<sup>\*2</sup> Hard disk drives are available pre-installed with Windows® 2000, Windows® XP. Windows® 2000 refers to Windows® 2000 Professional, and Windows® XP refers to Windows® XP Professional.  
<sup>\*3</sup> PS-3701A only

## Specifications

### Performance Specifications

		Specifications		
Model		PS3700A-T41-ASU-P41	PS3700A-T41-ASU-E66	PS3701A-T41-DU-E66
Supported OS		Windows®2000/ Windows®XP/ Windows®XP Embedded/ Windows®CE.NET 4.2 <sup>*1</sup>		
CPU		Pentium®4-M 1.7GHz / Eden™ ESP6000 667MHz		
BIOS		Phoenix First BIOS / Phoenix Award BIOS		
Main Memory		DDR256MB/ 512MB (DIMM Socket x 1, 512MB max.) / SDRAM 128MB/256MB (DIMM Socket x 1, 256MB max.) <sup>*2</sup>		
Graphics		XGA (1024 x 768 pixels)		
Video Memory		Max 64MB (UMA Type) / 8-32MB (UMA Type)		
Display	Display Type	TFT Color LCD (15 inch)		
	Display Colors	16,777,216 Colors		
	Effective Display Area (W x H)	304.1mm [11.97in.] x 228.1mm [8.98in.]		
	Backlight's	CCFL (replaceable)		
Touch Panel	Type	Resistive Film (analog)		
	Resolution	1024 x 1024		
Interfaces	Serial	RS-232C — COM1 (D-sub 9-pin male) <RI/+5V switching possible> / COM2 (D-sub 9-pin male) <RI/+5V switching possible> / COM3 (D-sub 9-pin male) <RS-485/RS-422 switching possible> <sup>*3</sup> / COM4 (D-sub 9-pin male)		RS-232C — COM1 (D-sub 9-pin male) <RI/+5V switch poss.> / COM2 (D-sub 9-pin male) <RS-232C/RS-422/RS-485 switch poss.> <sup>*3</sup> / COM4 (D-sub 9-pin male)
	Printer	Complies with Centronics Standards (ECP/SPP/EPP equivalent) (D-Sub 25-pin, female)		
	USB	Front 1 port (USB Ver.1.1), bottom 2 ports(USB Ver.2.0)		Front 1 port, bottom 2 ports (USB Ver.1.1)
	Ethernet	10 BASE-T/100 BASE-TX auto change to rear 1 port		
	Keyboard	PS/2 Interface (mini DIN 6 pin, female) rear 1 port		
	Mouse	PS/2 Interface (mini DIN 6 pin, female) rear 1 port		
	Disk	Master	2.5 inch HDD I/F	
		Slave	CF Card I/F (not hot-swappable)	
	PCMCIA	Type II (side 2 ports)		
	Sound	LINE IN, SPEAKER OUT, MIC IN (rear 3 ports) (using mini-jack connector)		SPEAKER OUT rear 1 port (using mini-jack connector)
Floppy Disk Drive	2-mode 3.5 inch floppy disk drive (side access)			
CD-ROM Drive	IDE-Type CD-ROM Drive (connected to IDE secondary) (side access)		CD-ROM Drive I/F rear 1 port <sup>*4</sup>	

<sup>\*1</sup> PS-3701A only.  
<sup>\*2</sup> Select 256 MB to use Windows® XP Embedded. Select 128MB to use Windows® CE.NET4.2.  
<sup>\*3</sup> The sent data is echoed back. Transmission Enable is controlled with DTR.  
<sup>\*4</sup> The CD-ROM drive is optional.

### General Specifications

		Specifications		
Model		PS3700A-T41-ASU-P41	PS3700A-T41-ASU-E66	PS3701A-T41-DU-E66
Electrical	Rated Voltage (Rated Frequency)	AC100V/AC240V(50/60Hz)		DC24V
	Power Consumption	150VA or less		90W or less
	Allowable Voltage Drop	Shorter than 1cycle (pause occurrences must be more than 1 second apart)		
	Voltage Endurance	AC1500V 20mA for 1 minute (between charging and FG terminals)		
Environmental	Insulation Resistance	10MΩ or more at DC500V (between charging and FG terminals)		
	Ambient Operating Temperature	5°C to 50°C (when Using HDD) 0°C to 50°C (when NOT Using HDD)		5°C to 40°C (when Using HDD) 0°C to 40°C (when NOT Using HDD)
	Ambient Humidity	10%RH to 85%RH (non condensing)(wet bulb temperature: 29°C or less)		
	Storage Temperature	-10°C to + 60°C		
	Storage Humidity	10%RH to 85%RH (non condensing)(wet bulb temperature: 29°C or less)		
	Corrosive Gases	Free of corrosive gases		
	Noise Immunity (via noise simulator)	Noise Voltage: 1500Vp-p Pulse Duration: 50ns, 500ns, 1μs Rise Time: 1ns		
	Grounding	Protective grounding: D-Type grounding, Function grounding: D-Type grounding		
	Electrostatic Discharge Immunity	4kV (IEC 61000-4-2)		
	Vibration Resistance	When using HDD	4.9m/s <sup>2</sup> at 10Hz to 25Hz in X, Y, Z directions for 30 minutes	
When NOT using HDD		9.8m/s <sup>2</sup> (10Hz to 25Hz in X, Y, Z directions for 30 minutes) / 19.6m/s <sup>2</sup> (10Hz to 25Hz in X, Y, Z directions for 30 minutes)		
Ratings	Equivalent to IP65f (JEM 1030) (when not using front-face USB Port unit) <sup>*5</sup>			
Cooling Method	Forced Air Cooling by CPU Fan		Natural Air Cooling by Heat Sink	
Weight	Approx. 8.0kg [17.6lb]		Approx. 6.0kg [13.2lb]	
External Dimensions (W x H x D)	395mm [15.55in.] x 294mm [11.57in.] x 100mm [3.94in.]		395mm [15.55in.] x 294mm [11.57in.] x 60mm [2.36in.]	

<sup>\*5</sup> Meets IP65f testing requirements, however, operation is not guaranteed in every environment.

### Expansion Slots

	PS-3700A(1-slot type)	Board Size
1st slot	PCI 2.2 (5V)	240mm [9.45in.] x 106.68mm [4.20in.]
Power Supply	DC5V:1.5A, DC12V:0.5A, DC-12V:0.1A, DC3.3V:0.5A	

# 12.1-inch TFT color LCD compact panel computers with Intel® Celeron® M 1.3GHz / ULV Celeron® M 600MHz CPU



## Features

- Hard disk drive or CF card-bootable
- Touch-panel mouse emulation (Included with this OS-preinstalled model)
- Reliability, Availability and Serviceability (RAS) utility
- Embedded operating systems support (Diskless operation when using CF card)\*1
- Rugged aluminum body
- IP65f
- Built to order and shipped with your choice of options
- Fanless (only for PS-3651A)
- Compliant with RoHS directive
- International safety standards approval: UL, CSA and CE labeled



PS-3650A/3651A XGA 12.1 inch

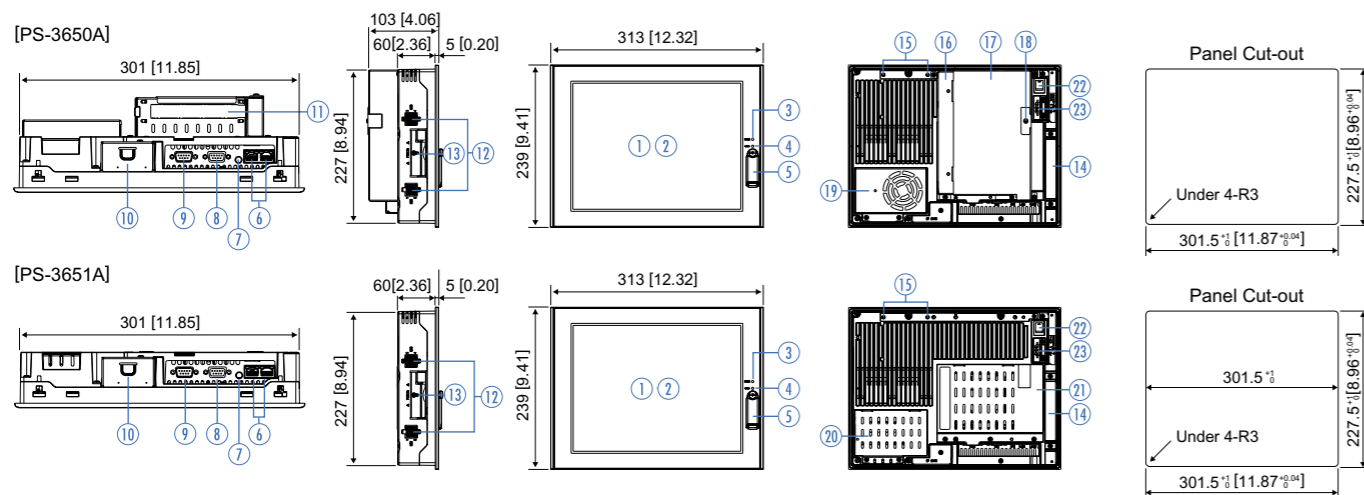
UL, CE, RoHS

Windows 2000, Windows XP, Windows XP Embedded

Pre-installed OS<sup>2</sup> Embedded OS

### External Dimensions, Interface

Units:mm[in.]



- |   |  |  |                      |
|---|--|--|----------------------|
| ① Display Area                                      | ⑧ RAS Connector                                | ⑮ RS-232C/485 Conversion Unit Hook Holes | ⑳ Power Switch       |
| ② Touch Panel                                       | ⑨ RS-232C Connector (COM1) <R1/+5V changeover> | ⑯ Expansion Board Base                   | ㉑ AC Power Connector |
| ③ Power Lamp LED/RAS Status Lamp                    | ⑩ CF Card Slot                                 | ⑰ Expansion Board Cover                  |                      |
| ④ HDD/IDE Access Lamp (DISK)                        | ⑪ PCI Expansion Slot                           | ⑱ Expansion Board Supporter              |                      |
| ⑤ Front Cover (Hardware Reset Switch/USB connector) | ⑫ USB Interface                                | ⑲ Fan Cover                              |                      |
| ⑥ LAN (Ethernet) Connector                          | ⑬ PCMCIA Slot Cover                            | ㉒ Memory Slot Cover                      |                      |
| ⑦ Speaker Output Connector(SPEAKER OUT)             | ⑭ Mask Cover                                   | ㉓ IDE Cover                              |                      |

\*1 For compatibility, see page 17.  
\*2 Hard disk drives are available pre-installed with Windows® 2000, Windows® XP. Windows® 2000 refers to Windows® 2000 Professional, and Windows® XP refers to Windows® XP Professional.

## Specifications

### Performance Specifications

		Specifications		
Model		PS3650A-T41	PS3651A-T41	
Supported OS		Windows®2000, Windows®XP, Windows®XP Embedded		
CPU		Celeron®M 1.3GHz	ULV Celeron®M 600MHz	
BIOS		Phoenix First BIOS Embedded Pro		
Main Memory		DDR DRAM 256MB (DIMM socket x 1: 512MB max.)		
Graphics		XGA (1024 x 768 pixels)		
Video Memory		Max 64MB (UMA type)		
Display	Display Type	TFT Color LCD (12.1 inch)		
	Display Colors	262,144 Colors		
	Effective Display Area (W x H)	245.7mm [9.68in.] x 184.3mm [7.26in.]		
Touch Panel	Backlight	CCFL (replaceable)		
	Type	Resistive Film (analog)		
Interfaces	Resolution	1024 x 1024		
	Serial	RS-232C COM1 (D-Sub 9-pin male) <RI /+5V changeover>		
	USB	Front 1 port (USB Ver. 1.1 compatible), Side 4 ports (USB Ver. 2.0 compatible)		
	Ethernet	10 BASE-T/100 BASE-TX Auto change Bottom 2 ports		
	Disk	IDE/IF	Master	2.5inch HDD Interface
			Slave	CF Card Interface
	RAS	RAS Interface (D-Sub 9-pin female)		
	PCMCIA	Type III Side 1 port (CARDBUS supported) (*Zoomed Video and Sound partially excluded)		
Sound	SPEAKER OUT, Bottom 1 port (using mini pin jack connector)			

### General Specifications

		Specifications	
Model		PS3650A-T41	PS3651A-T41
Electrical	Rated Voltage (Rated Frequency)	AC100V/AC240V(50/60Hz)	
	Power Consumption	110VA or less	95VA or less
	Allowable Voltage Drop	Shorter than 1 cycle (Note that pause occurrences must be more than 1 second apart)	
	Voltage Endurance	AC1500V 20mA for 1 minute (between charging and FG terminals)	
	Insulation Resistance	100MΩ or more at DC500V (between charging and FG terminals)	
Environmental	Ambient Operating Temperature	When HDD not attached: 0°C to 50°C When HDD attached: 5°C to 50°C	When HDD not attached: 0°C to 50°C When HDD attached: 5°C to 45°C
	Ambient Humidity	10%RH to 85%RH (no condensation)(wet-bulb temperature: 29°C or lower)	
	Storage Temperature	-20°C to +60°C	
	Storage Humidity	10%RH to 85%RH (no condensation)(wet-bulb temperature: 29°C or lower)	
	Corrosive Gases	Free of corrosive gases	
	Noise Immunity (via noise simulator)	Noise Voltage: 1500Vp-p Pulse Duration: 50ns, 500ns, 1μs Rise Time: 1ns	
	Grounding	Protective Grounding: D-type grounding	
Structural	Electrostatic Discharge Immunity	6kV (IEC61000-4-2 Level 3)	
	Vibration Resistance	When HDD attached: 4.9m/s² (10Hz to 25Hz in X, Y, Z directions for 30 minutes) When HDD not attached: Half Amplitude 3.5mm (5Hz to 9Hz in X, Y, Z directions 10 times for 100 minutes) Constant Acceleration 9.8m/s² (9Hz to 150Hz in X, Y, Z directions 10 times for 100 minutes)	
	Ratings	Equivalent to IP65f (only for the panel-installed front area when not using the front-face USB port unit)*1	
Cooling Method	Forced Air Cooling by CPU Fan	Natural Air Cooling by Heat Sink	
Weight	Approx. 4.5kg [9.9lb] (Main unit only)	Approx. 3.8kg [8.4lb] (Main unit only)	
External Dimensions (W x H x D)	313mm [12.32in.] x 239mm [9.41in.] x 103mm [4.06in.]	313mm [12.32in.] x 239mm [9.41in.] x 60mm [2.36in.]	

\*1 Meets IP65f testing requirements, Operation is not, however, guaranteed in every environment.

### Expansion Slots

	PS-3650A(1-slot type)	Board Size
1st slot	PCI 2.2 (5V)	174.63mm [6.88in.] x 106.68mm [4.20in.]
Power Supply	DC5V: 1.5A, DC12V: 0.5A, DC12V: 0.1A, DC3.3V: 0.5A	

**First in the industry!**  
**12.1-inch TFT color LCD panel computer**  
**with Windows® CE5.0!**  
**7.4-inch TFT color LCD with**  
**Windows® CE3.0.**



**Features**

- Diskless operation
- DIO 8 digital input/output (PS-400G optional)
- Touch-panel mouse emulation
- Fanless
- Reliability, Availability and Serviceability (RAS) utility
- Remote Desktop Protocol (RDP) as a standard feature
- Application development kit (optional)
- Replaceable backlight
- VESA standard for attachment of cover or mounting on wall or desktop stand (PS-3600G optional)
- PS-400G also available mounted in tabletop terminal (IT2400 series Type-C)
- IP65f (JEM1030) / NEMA#250 Type 4X/13 equivalent protection (PS-3600G)
- IP65f (JEM1030) / NEMA#250 Type 4X/12 equivalent protection (PS-400G)
- International safety standards approval:UL,CE labeled
- Compliant with RoHS directive (PS-3600G only)



PS-3600G

SVGA

12.1 inch



Windows® CE 5.0



PS-400G

VGA

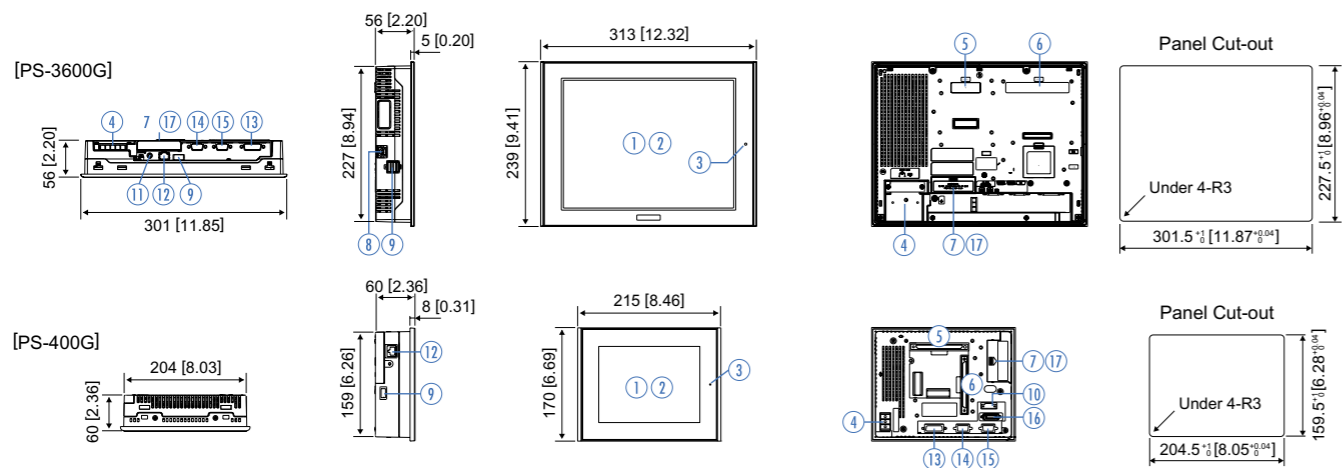
7.4 inch



Windows® CE 3.0

**External Dimensions, Interface**

Units:mm[in.]



- |                                      |                                      |                            |                            |
|--------------------------------------|--------------------------------------|----------------------------|----------------------------|
| ① Display Area                       | ⑦ Expansion Unit Interface 2 (EXT2)* | ⑪ Speaker Output           | ⑮ RS-232C Connector (COM2) |
| ② Touch Panel                        | ⑧ CF Card Cover                      | ⑫ Ethernet Interface       | ⑯ Printer Interface (LPT)  |
| ③ Power Lamp LED/RAS Status Lamp     | ⑨ USB Interfaces (Client)            | ⑬ RS Interface (RAS)       | ⑰ CF Card Slot             |
| ④ Power Input Terminal Block         | ⑩ USB Interfaces (Host)              | ⑭ RS-232C Connector (COM1) |                            |
| ⑤ Expansion Unit Interface 1 (EXT1)* | ⑫ Sound Output Terminal Block        |                            |                            |

\*1 When this option is used with the PS-400G, note that expansion unit interfaces (EXT1 and EXT2) cannot be used together.

**Specifications**

**Performance Specifications**

		Specifications		
<b>Model</b>	PS3600G-T41	PS3600G-T41-24V	PS400G-T41-E124V	
<b>Supported OS</b>	Windows®CE 5.0 (English / Japanese)		Windows®CE 3.0	
<b>CPU</b>	Intel® PXA270 520MHz (XScale® Technology)		SH4 200MHz	
<b>Main Memory</b>	128MB		32MB	
<b>Graphics</b>	SVGA (800 x 600 pixels)		VGA (640 x 480 pixels)	
<b>Display Type</b>	TFT Color LCD (12.1 inch)		TFT Color LCD (7.4 inch)	
<b>Display Colors</b>	64,000 Colors			
<b>Effective Display Area (W x H)</b>	246.0mm [9.69in.] x 184.5mm [7.26in.]		149.7mm [5.89in.] x 112.3mm [4.42in.]	
<b>Backlight</b>	CCFL (Replaceable)			
<b>Pixel Density</b>	800 x 600 pixels		640 x 480 pixels	
<b>Brightness Control</b>	4 levels via touch panel			
<b>Type</b>	Resistive Film (analog)			
<b>Resolution</b>	1024 x 1024			
<b>Serial</b>	RS-232C		COM1 (D-sub 9-pin male) COM2 (D-sub 9-pin male)	
<b>Printer</b>	—		Complies with Centronics Standards Narrow pitch 20-pin connector	
<b>USB</b>	Side 2 ports (Host), 1 port (Client)/ Bottom 1 port (Host) (USB Ver.1.1)		Side 1 port *2	
<b>Ethernet</b>	10BASE-T/ 100BASE-TX 1 port		10BASE-T 1 port	
<b>Memory Card</b>	CF Card 1 slot *1			
<b>RAS</b>	Dsub 15-pin socket-type connector 1 port			
<b>Sound</b>	Speaker Output		Sound output terminal block provides Mono: Speaker Output: Sound Line Output	

\*1 Because the CF card is a system disk, it cannot be inserted or removed while OS is running.

\*2 USB specifications may restrict usage in some cases. Please inquire regarding your specific needs.

**General Specifications**

		Specifications		
<b>Model</b>	PS3600G-T41	PS3600G-T41-24V	PS400G-T41-E124V	
<b>Rated Voltage (Rated Frequency)</b>	AC100V/AC240V(50/60Hz)		DC24V	
<b>Power Consumption</b>	72VA or less		32W or less	
<b>Allowable Voltage Drop</b>	shorter than 1 cycle		10ms or less	
<b>Voltage Endurance</b>	AC1500V 20mA for 1 minute (between charging and FG terminals)		AC1000V 20mA for 1 minute (between charging and FG terminals)	
<b>Insulation Resistance</b>	10MΩ or more at DC500V (between charging and FG terminals)			
<b>Ambient Operating Temperature</b>	Panel Interior and Panel face 0°C to 50°C*3			
<b>Ambient Humidity</b>	10%RH to 90%RH (non-condensing)(wet bulb temperature : 39°C or less)			
<b>Storage Temperature</b>	-10°C to +60°C		-20°C to +60°C	
<b>Storage Humidity</b>	10%RH to 90%RH (non-condensing)(wet bulb temperature : 39°C or less)			
<b>Corrosive Gases</b>	Free of corrosive gases			
<b>Noise Immunity (via noise simulator)</b>	Noise Voltage: 1500Vp-p Pulse Duration: 50ns, 500ns, 1μs Rise Time: 1ns		Noise Voltage: 1500 Vp-p Pulse Duration: 1x 1μs Rise Time: 1ns	
<b>Grounding</b>	Protective grounding: D-Type grounding, Function grounding: D-Type grounding			
<b>Electrostatic Discharge Immunity</b>	6kV (IEC 61000-4-2)			
<b>Vibration Resistance</b>	IEC61131-2 (JIS B 3502) compliant 5Hz to 9Hz Single amplitude 3.5mm 9Hz to 150Hz Fixed acceleration 9.8m/s² X,Y,Z directions for 10 times (100min.)		IEC61131-2 (JIS B 3502) compliant When vibration is NOT continuous 10Hz to 57Hz 0.075mm, 57Hz to 150Hz 9.8m/s² When vibration is continuous 10Hz to 57Hz 0.035mm, 57Hz to 150Hz 4.9m/s² X,Y,Z directions for 10 times (80min.)	
<b>Ratings</b>	Equivalent to IP65f (JEM 1030)* NEMA#250 Type4x/13 equivalent protection		Equivalent to IP65f (JEM 1030)* NEMA#250 Type4x/12 equivalent protection	
<b>Weight</b>	Approx. 3.5kg [7.7lb]		Approx. 1.7kg [3.7lb]	
<b>Dimensions (W x H x D)</b>	313mm [12.32in.] x 239mm [9.41in.] x 56mm [2.20in.]		215mm [8.46in.] x 170mm [6.69in.] x 60mm [2.36in.]	

\*3 If the PS-G's operating temperature exceeds 40°C for an extended period of time, the display quality, such as contrast, etc., may degrade. If, however, the operating temperature is reduced to 40°C or lower, the display quality will return to normal.

\*4 Meets IP65f testing requirements, however, operation is not guaranteed in every environment.

# All-purpose "built-in computer" offering seamless integration with Intel® Pentium® III 1GHz or Celeron® 566MHz CPU.



## Features

- Hard disk drive or CF card bootable
- Reliability, Availability and Serviceability (RAS) utility
- Embedded operating systems support (Diskless operation when using CF card)\*1
- Built to order and shipped with your choice of options
- Dual hard disk drive compatible
- Software Mirroring Utility
- Remote placement 10m from the display. (Only when using FP-3710T/3650T and DVI connection)
- International safety standards approval: UL and CE labeled



## TOPICS



### PS-2000B 6-Slots PS2000B-41-6S

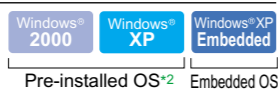
AC100-240V



- PC/AT-compatible computer in tower case
- Pentium® III 1GHz or Celeron® 566MHz CPUs
- Dual hard disk drive compatible
- Hard disk drive or CF card bootable
- Interfaces: COM x 4, USB x 4, LAN x 2, PS/2 x 2, PCI x 2, PCI/ISA x 4, RGB, DVI, Sound, RAS

\*Separate options

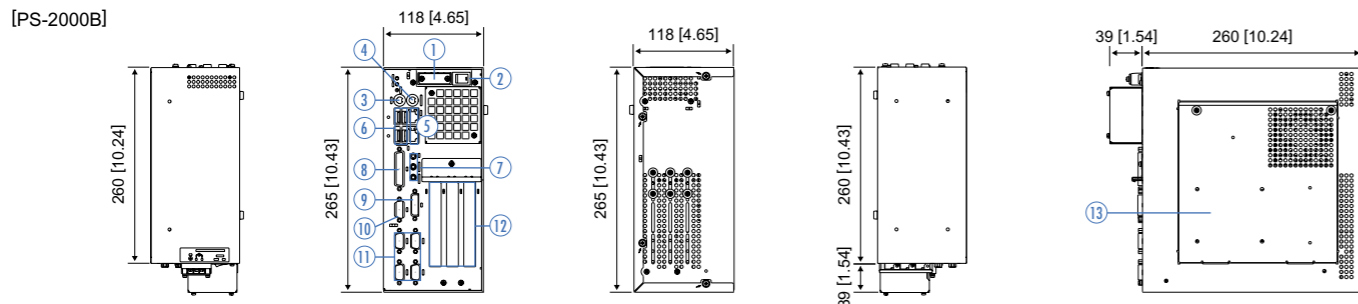
## PS-2000B



Pre-installed OS\*2 Embedded OS

## External Dimensions, Interface

Units:mm[in.]



- | Parts Name | 1                    | 2            | 3                       | 4                             | 5                         | 6             | 7  | 8                   | 9                                 | 10                         | 11                | 12              | 13                |
|------------|----------------------|--------------|-------------------------|-------------------------------|---------------------------|---------------|--|---------------------|-----------------------------------|----------------------------|-------------------|-----------------|-------------------|
|            | Power Input Terminal | Power Switch | Mouse Connector (MOUSE) | Keyboard Connector (KEYBOARD) | LAN Connector (LAN1/LAN2) | USB Connector | Speaker Output (SPEAKER) / Line Input (LINE IN)/Microphone Input (MIC) | RAS Connector (RAS) | Dedicated Display Connector (DVI) | Analog RGB Connector (VGA) | RS-232C Connector | Expansion Slots | Maintenance Cover |

\*1 For compatibility, see page 17.  
\*2 Hard disk drives are available pre-installed with Windows® 2000, Windows® XP. Windows® 2000 refers to Windows® 2000 Professional, and Windows® XP refers to Windows® XP Professional

## Specifications

### Performance Specifications

		Specifications	
Model		PS2000B-41	PS2000B-41-6S
Supported OS		Windows®2000/ Windows®XP/ Windows®XP Embedded**	
CPU		Pentium®III 1GHz(BUS 100MHz) / Celeron®566 MHz	
BIOS		Phoenix First BIOS	
Main Memory		SDRAM:128 MB/256 MB (DIMM Socket x 1: 256 MB max.)*2	
Graphics*3		VGA (640 x 480 pixels) to UXGA (1600 x 1200 pixels)*4	
Video Memory		Maximum of 32 MB (UMAtype)	
Interfaces	Serial	COM1 (D-sub 9 pin male) <RI/+5V selectable>*5 COM2 (D-sub 9 pin male) COM3 (D-sub 9 pin male) <RI/+5V selectable>*5 COM4 (D-sub 9 pin male)	
	USB	Front face: 4 ports (USB Ver.1.1)	
	Ethernet	10 BASE-T/100 BASE-TX automatic changeover Front face: 2ports	
	Keyboard	PS/2 I/F (Mini-DIN 6pin, female), Front face: 1port	
	Mouse	PS/2 I/F (Mini-DIN 6pin, female), Front face: 1port	
	Disk	FD I/F - For 2-mode 3.5inch floppydisk I/F Internal: 1port (for Digital Electronics Corporation's CD-ROM/FD drive unit) IDE I/F - For secondary CD-ROM I/F Internal: 1port (for Digital Electronics Corporation's CD-ROM/FD drive unit)	
	Video	Analog RGB I/F, Digital Visual I/F *6	
	RAS	RAS I/F (D-sub 25pin,male) Front face:1port	
	Sound	LINE IN, SPEAKER OUT, MIC IN(Standard type AUDIO jack)	
	Other	CD-ROM/FD Drive (Optional)	

\*1 PS2000B-41 only. \*2 Please contact our sales representatives regarding applications requiring 512MB of memory. \*3 Up to 256 colors with 1600 x 1200 resolution.  
\*4 The display resolution used must be supported by the PS-B unit's OS, applications and the external display unit. \*5 RS-232C/422/485 compatibility with optional unit.  
\*6 Resolution is fixed to XGA according to display performance when using DVI-D I/F.

### General Specifications

		Specifications	
Model		PS2000B-41	PS2000B-41-6S
Electrical	Rated Voltage (Rated Frequency)	AC100V/AC240V(50/60Hz)	
	Power Consumption	110VA or less	220VA or less
	Allowable Voltage Drop	Shorter than 1cycle (Pause occurrences must be more than 1 second apart)	
	Voltage Endurance	AC1500V 20mA for 1 minute (Between charging and FG terminals)	
	Insulation Resistance	10MΩ or more at DC 500V (Between the charging and FG terminals)	
Environmental	Ambient Operating Temperature (Interior)	5°C to 50°C (With HDD), 0°C to 50°C (Without HDD)	
	Ambient Humidity	10%RH to 85%RH (No condensation)(wet-bulb temperature of 29°C max.)	
	Storage Temperature	-10°C to +60°C	
	Storage Humidity	10%RH to 85%RH (No condensation)(wet-bulb temperature of 29°C max.)	
	Corrosive Gases	Free of corrosive gases	
	Noise Immunity (via noise simulator)	Noise Voltage:1500Vp-p Pulse Duration:50ns,500 ns,1μs Rise Time:1 ns	
	Grounding	Protective grounding: D-type grounding Functional grounding: D-type grounding	
Electrostatic Discharge Immunity	6 kV (IEC 61000-4-2)		
Structural	Vibration Resistance	9.8 m/s <sup>2</sup> (10Hz to 25Hz in X, Y, Z directions for 30 minutes) With HDD attached:4.9 m/s <sup>2</sup>	19.6 m/s <sup>2</sup> (10Hz to 25Hz in X, Y, Z directions for 30 minutes) With CD-ROM/ FDD Unit attached:9.8 m/s <sup>2</sup> , With HDD attached:4.9 m/s <sup>2</sup>
	Weight	Approx. 4.5 kg [9.9lb] (Main unit only)	
	Dimensions (W x H x D)	118mm [4.65in.] x 265mm [10.43in.] x 299mm [11.77in.] (Not including projections)	265mm [10.43in.] x 220mm [8.66in.] x 260mm [10.24in.] (Not including projections)
	With CD-ROM/FD Drive unit attached (W x H x D)	159mm [6.26in.] x 265mm [10.43in.] x 299mm [11.77in.] (Not including projections)	265mm [10.43in.] x 261mm [10.28in.] x 260mm [10.24in.] (Not including projections)
With RS-232C/RS-485 Conversion unit attached (W x H x D)	265mm [10.43in.] x 241.5mm [9.51in.] x 260mm [10.24in.] (Not including cables and projections)		

### Expansion Slots

	PS2000B-41 (3-slot type)	PS2000B-41-6S (6-slot type)	Board Size
1st slot	PCI 2.2 (5V)	PCI 2.2 (5V)	220mm [8.66in.] x 106.68mm [4.20in.]
2nd slot			245mm [9.65in.] x 106.68mm [4.20in.]
3rd slot			
4th slot		PCI/ISA*7	PCI: 245mm [9.65in.] x 106.68mm [4.20in.]
5th slot			ISA: 210mm [8.27in.] x 114.30mm [5.68in.]
6th slot			
Power Supply	5V:3A,+3.3V: 0.75A, 12V: 0.75A,-12V: 0.1A (Total of 3 slots)		1st to 2nd slot: 5V:3A,+3.3V: 0.75A, 12V: 0.75A,-12V: 0.1A (Total of 2 slots) 3rd to 6th slot: 5V:5A,+3.3V: 1A, 12V: 1A,-12V: 0.5A,-5V: 0.15A (Total of 4 slots)*8

\*7 Allowed to install either PCI or ISA boards. \*8 Even when PCI and ISA boards are used together, the PCI power supply capacity is as shown in the above table.

# Industrial built-in flat panel displays with DVI and front USB interfaces



## Features

- Front USB interface (FP3710-T41-U)
- DVI compatible flat panel displays
- Touch-panel mouse emulation (free download available at otasuke Pro! <http://www.pro-face.com/otasuke/>)
- VESA standard for attachment of cover or mounting on wall or desktop stand (FP-3650T/3600T/3500T optional)
- Replaceable backlight
- Rugged aluminum body (FP-3710T only)
- IP65f
- International safety standards approval: UL and CE labeled (FP-3600T/3500T are only available with DC24V)

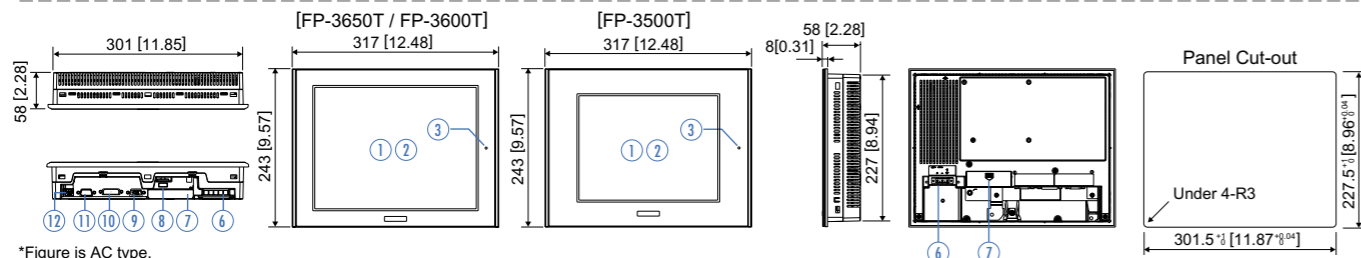
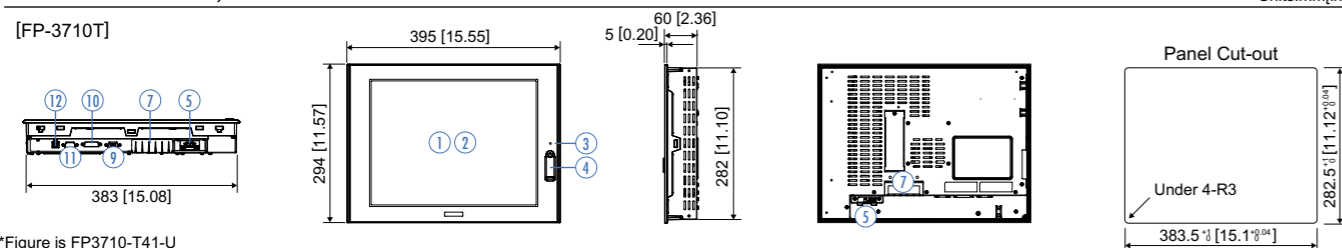


**FP-3710T** XGA 15 inch  
**FP-3650T / FP-3600T** XGA / SVGA 12.1 inch  
**FP-3500T** VGA 10.4 inch

CE, UL, cUL, ENEC (FP-3650T)  
 CE, UL, cUL, ENEC (FP-3600T DC24V power supplied model)  
 CE, UL, cUL, ENEC (DC24V power supplied model)

### External Dimensions, Interface

Units:mm[in.]



- | Parts Name   | 1  | 2                             | 3                         | 4           | 5                  | 6                      | 7                 | 8              | 9                          | 10                                  | 11                     | 12 |
|--------------|--|-------------------------------|---------------------------|-------------|--------------------|------------------------|-------------------|----------------|----------------------------|-------------------------------------|------------------------|----|
| Display Area | Front Cover(Hardware Reset Switch / USB Connector) | Setting Switch (Slide switch) | DVI-D Interface Connector | Touch Panel | AC Power Connector | USB (Type A Connector) | RS-232C Connector | Power Lamp LED | Power Input Terminal Block | VGA Interface(analog RGB) Connector | USB (Type B Connector) |    |

## Specifications

### Performance Specifications

		Specifications							
Model		FP3710-T41-U	FP3710-T41	FP3650-T41	FP3600-T11	FP3600-T41-24V	FP3500-T11	FP3500-T41-24V	
Display	Display Type	TFT Color LCD (15 inch)			TFT Color LCD (12.1 inch)		TFT Color LCD (10.4 inch)		
	Graphics	XGA (1024 x 768 pixels)			SVGA (800 x 600 pixels)		VGA (640 x 480 pixels)		
	Effective Display Area (W x H)	304.1mm [11.97in.] x 228.1mm [11.34in.]		245.76mm [9.68in.] x 184.32mm [7.26in.]	248.0mm [9.76in.] x 186.5mm [7.34in.]		211.2mm [8.31in.] x 158.4mm [6.24in.]		
	Display Colors	16,777,216 colors						262,144 colors	
	Contrast Adjustment	Adjustable via OSD							
Touch Panel	Backlight	CCFL (Replaceable)							
	Type	Resistive Film (Analog)							
	Resolution	1024 x 1024							
External Interfaces	Interfaces	RS-232C or USB (Type B, USB 2.0 compatible)							
	Video	Analog RGB or DVI-D <sup>*1</sup>							
	USB (Type A) <sup>*2</sup>	Front port (USB 2.0 compatible)					Bottom 1 port (USB 2.0 compatible)		

\*1 Use one or the other. \*2 Available for use when the touch panel USB cable (B type) is connected to a PC.

### General Specifications

		Specifications							
Model		FP3710-T41-U	FP3710-T41	FP3650-T41	FP3600-T11	FP3600-T41-24V	FP3500-T11	FP3500-T41-24V	
Electrical	Rated Voltage (Rated Frequency)	AC100V/AC240V(50/60Hz)			DC24V		AC100V/AC240V (50/60Hz)		DC24V
	Power Consumption	AC100V1.1A or less AC240V0.7A or less		AC100V0.90A or less AC240V0.45A or less		2.08A or less		AC100V0.90A or less AC240V0.45A or less	2.08A or less
	Allowable Voltage Drop	Shorter than 1 cycle (Note that pause occurrences must be more than 1 second apart)				Within 10ms		Shorter than 1 cycle <small>(Note that pause occurrences must be more than 1 second apart)</small>	
	Voltage Endurance	AC1500V 20mA for 1 minute			AC1000V 20mA for 1 minute		AC1500V 20mA for 1 minute		AC1000V 20mA for 1 minute
	Insulation Resistance	10MΩ or more at DC500V (between charging and FG terminals)							
Environmental	Ambient Operating Temperature <sup>*3</sup>	0°C to 50°C (within 30° from the installing angle vertical direction)							
	Ambient Humidity	10%RH to 90%RH (no condensation)(wet-bulb temperature: 39°C or lower)							
	Storage Temperature	-20°C to +60°C							
	Storage Humidity	10%RH to 90%RH (no condensation)(wet-bulb temperature: 39°C or lower)							
	Corrosive Gases	Free of corrosive gases							
	Noise Immunity (via noise simulator)	Noise Voltage: 1500Vp-p Pulse Duration: 1μs Rise Time: 1ns			Noise Voltage: 1000Vp-p Pulse Duration: 1μs Rise Time: 1ns		Noise Voltage: 1500Vp-p Pulse Duration: 1μs Rise Time: 1ns		Noise Voltage: 1000Vp-p Pulse Duration: 1μs Rise Time: 1ns
	Grounding	Protective and Functional Grounding: D-type grounding							
Structural	Electrostatic Discharge Immunity	6kV (EN61000-4-2 Level 3)							
	Vibration Resistance	JIS B 3502, IEC61131-2 compatible 5Hz to 9Hz Half Amplitude 3.5mm 9Hz to 150Hz Constant Acceleration 9.8m/s <sup>2</sup> Applied in X, Y and Z directions 10 cycles for 100 minutes							
	Ratings	Equivalent to IP65f (only for the front area when the panel is installed) <sup>*4</sup>							
	Weight	Approx. 7.0kg [15.4lb]			Approx. 3.5kg [7.7lb]				
	External Dimensions (W x H x D)	395mm [15.55in.] x 294mm [11.57in.] x 60mm [2.36in.]			317mm [12.48in.] x 243mm [9.57in.] x 58mm [2.28in.]				

\*3 "Ambient Operating Temperature" indicates the cabinet interior or panel face temperature. \*4 Meets IP65f testing requirements. Operation is not, however, guaranteed in every environment.

### Interface Specifications

Input Signal Type	Analog RGB	DVI-D
Input Signal Characteristic	Image signal: analog RGB Synchronous signal: TTL level, negative true or positive true Scanning type: non-interlaced	DVI-D
Setting via OSD (On Screen Display)	CONTRAST, BRIGHTNESS, H-POS, V-POS, H-POSITION, PHASE, DIMMER, SHARPNESS, AUTO ADJUSTMENT, AUTO GAIN, DEFAULT(ALL RESET)	CONTRAST, BRIGHTNESS, SHARPNESS, DIMMER, DEFAULT (ALL RESET)

Available Number of Dots (pixels) Displayed											
VGA (FP-3500T)				SVGA (FP-3600T)				XGA (FP-3650T/FP-3710T)			
Size	H Sync.	V Sync.	Dot Clock	Size	H Sync.	V Sync.	Dot Clock	Size	H Sync.	V Sync.	Dot Clock
640 x 350	31.469kHz	70.000Hz	25.175MHz	640 x 350 <sup>*5</sup>	31.469kHz	70.000Hz	25.175MHz	640 x 400	24.827kHz	56.420Hz	21.053MHz
640 x 400	31.469kHz	70.000Hz	25.175MHz	640 x 400	31.469kHz	70.000Hz	25.175MHz	640 x 400	31.469kHz	70.000Hz	25.175MHz
640 x 400	24.827kHz	56.420Hz	21.053MHz	640 x 400	24.827kHz	56.420Hz	21.053MHz	640 x 480	31.469kHz	59.992Hz	25.175MHz
640 x 480	31.469kHz	59.992Hz	25.175MHz	640 x 480	31.469kHz	59.992Hz	25.175MHz	640 x 480	37.500kHz	75.000Hz	31.500MHz
720 x 350 <sup>*6,7</sup>	31.469kHz	70.000Hz	28.320MHz	640 x 480	35.000kHz	66.670Hz	30.240MHz	640 x 480	35.000kHz	66.670Hz	30.240MHz
720 x 400 <sup>*7</sup>	31.469kHz	70.000Hz	28.320MHz	640 x 480	37.861kHz	72.810Hz	31.500MHz	720 x 400 <sup>*7</sup>	31.469kHz	70.000Hz	28.320MHz
				720 x 350 <sup>*6,7</sup>	31.469kHz	70.000Hz	28.320MHz	800 x 600	37.879kHz	60.317Hz	40.000MHz
				720 x 400 <sup>*7</sup>	31.469kHz	70.000Hz	28.320MHz	800 x 600	46.875kHz	75.000Hz	49.500MHz
				800 x 600	35.156kHz	56.250Hz	36.000MHz	1024 x 768	48.363kHz	60.004Hz	65.000MHz
				800 x 600	37.879kHz	60.317Hz	40.000MHz	1024 x 768	56.476kHz	70.069Hz	75.000MHz
				1024 x 768	60.023kHz	75.029Hz	78.750MHz	1024 x 768	60.023kHz	75.029Hz	78.750MHz

\*5 For vertical lines, 400 lines including upper and lower 50 lines will be enlarged to 480 lines (1.2 times). \*6 For vertical lines, 400 lines including upper and lower 50 lines will be enlarged to 600 lines (1.5 times). \*7 When you display in this resolution, set "720 x 400 display setting 720 x 400Mode" under "System Settings" to ON.

PS SERIES Type A

Product Name	Model	PS-3700A		PS-3701A
		Pentium® 4-M	Eden™ ESP6000	Eden™ ESP6000
DIM Module DDR <256MB>	PSA-DDR256-BLD	○	○	○
DIM Module DDR <512MB>	PSA-DDR512-BLD	○	○	○
DIM Module SDRAM <128MB>	PSA-SDR128-BLD	○	○	○
DIM Module SDRAM <256MB>	PSA-SDR256-BLD	○	○	○
HDD Unit *2	PSA-HD20-BLD	○	○	○
PS-3700A (Pentium4) Windows®XP Multi Language Pre-installed HDD	PSA-HD20-WXP/ML-P4-BLD	○	○	○
PS-3700A (Eden 667MHz) Windows®XP Multi Language Pre-installed HDD	PSA-HD20-WXP/ML-E6-BLD	○	○	○
PS-3701A (Eden 667MHz) Windows®XP Multi Language Pre-installed HDD	PSS-HD20-WXP/ML-E6-BLD	○	○	○
PS-3700A (Pentium4) Windows®2000 Multi Language Pre-installed HDD	PSA-HD20-W2K/ML-P4-BLD	○	○	○
PS-3700A (Eden 667MHz) Windows®2000 Multi Language Pre-installed HDD	PSA-HD20-W2K/ML-E6-BLD	○	○	○
PS-3701A (Eden 667MHz) Windows®2000 Multi Language Pre-installed HDD	PSS-HD20-W2K/ML-E6-BLD	○	○	○
Windows®XP Embedded CF Card *3	PSA-XPE1G-E66-E1-BLD	○	○	○
Windows®CE.NET 4.2 Embedded CF Card *4	PS3701A-CF128-CE42-BLD	○	○	○
CF Card for XP Embedded SP2 (Multi Language)	PS3700A-XPE1G-P4-M1-BLD	○	○	○
	PS3700A-XPE1G-E6-M1-BLD	○	○	○
	PS3701A-XPE1G-E6-M1-BLD	○	○	○
	CA3-CFCALL/128MB-01-BLD	○	○	○
	CA3-CFCALL/256MB-01-BLD	○	○	○
CF Card	128MB	○	○	○
	256MB	○	○	○
	512MB	○	○	○
	1GB	○	○	○
DIM Module DDR <512 MB>	PSA-DDR512	○	○	○
DIM Module SDRAM <256 MB>	PSA-SDR256	○	○	○
HDD Unit *2	PSA-HD20	○	○	○
USB Cable	5m	○	○	○
	128MB	○	○	○
	256MB	○	○	○
	512MB	○	○	○
	1GB	○	○	○
CF Card	CA3-CFCALL/128MB-01	○	○	○
	CA3-CFCALL/256MB-01	○	○	○
	CA3-CFCALL/512MB-01	○	○	○
	CA3-CFCALL/512MB-01	○	○	○
	CA6-CFCALL/1GB-01	○	○	○
CD-ROM Drive Unit	PSS-CD01	○	○	○
15-inch Unit Cover	CA4-CVR15-01	○	○	○
Desktop Stand *5	CA4-STD15-01	○	○	○
Power Supply <AC>	CA4-PWU-01	○	○	○
Backlight	CA3-BLU15-01	○	○	○
Installation Gasket	CA3-WPG15-01	○	○	○
Screen Protection Sheet	CA3-DFS15-01	○	○	○
Installation Fasteners *6	CA3-ATFALL-01	○	○	○

\*1 Shipped built-to-order. \*2 Not installed with operating system.  
 \*3 When purchasing the XP Embedded-compatible CF card, specify the memory capacity (256 MB). The CF card cannot be purchased together with the HDD unit.  
 \*4 When purchasing the CE.NET4.2 Embedded-compatible CF card, specify the memory capacity (128MB).  
 \*5 To use the stand, the 15-inch type cover is required. When the hard disk drive is installed, limit the angle within 15° to 30°.  
 \*6 Standard attachment for all models.

Product Name	Model	PS-3650A	PS-3651A
		DIM Module DDR <256MB>	PSA-DDR256-BLD
DIM Module DDR <512MB>	PSA-DDR512-BLD	○	○
DIM Module DDR <1GB>	PSA-DDR1G-BLD	○	○
HDD Unit *2	PS365XA-HD40-BLD	○	○
PS-3650A Series Windows®2000 Multi-Language Pre-installed HDD	PS365XA-HD40-W2K/ML-BLD	○	○
PS-3650A Series Windows®XP Multi-Language Pre-installed HDD	PS365XA-HD40-WXP/ML-BLD	○	○
Windows®XP Embedded SP2 Supported CF Card (Multi-Language Version)	PS365XA-XPE1G-M1-BLD	○	○
CF Card	128MB	○	○
	256MB	○	○
	512MB	○	○
	1GB	○	○
DIM Module DDR <512MB>	PSA-DDR512	○	○
DIM Module DDR <1GB>	PSA-DDR1G	○	○
HDD Unit	PS365XA-HD40	○	○
RS-232C/485 Conversion Unit	PL-RC500	○	○
USB Cable	5m	○	○
	128MB	○	○
	256MB	○	○
	512MB	○	○
CF Card	CA3-CFCALL/128MB-01	○	○
	CA3-CFCALL/256MB-01	○	○
	CA3-CFCALL/512MB-01	○	○
	CA6-CFCALL/1GB-01	○	○
Installation Gasket	CA3-WPG12-01	○	○
Screen Protection Sheet	CA5-DFS10-01	○	○
Backlight	CA5-BLU12XGA-01	○	○
Installation Fasteners *3	CA3-ATFALL-01	○	○

\*1 Shipped built-to-order. \*2 Not installed with operating system. \*3 Standard attachment for all models.

PL SERIES

Product Name	Model	PL-7930T	PL-7931T	PL-6930T	PL-6931T
		4 slots	2 slots	4 slots	2 slots
DIM Module DDR <256MB>	PSA-DDR256-BLD	○	○	○	○
DIM Module DDR <512MB>	PSA-DDR512-BLD	○	○	○	○
DIM Module DDR <1GB>	PSA-DDR1G-BLD	○	○	○	○
HDD Unit *2	PL-HD240-BLD	○	○	○	○
PL-X930 Windows®2000 Multi-Language Pre-installed HDD	PL-HDX930-W2K/ML-BLD	○	○	○	○
PL-X930 Windows®XP Multi-Language Pre-installed HDD	PL-HDX930-WXP/ML-BLD	○	○	○	○
Windows XP Embedded SP2 Supported CF Card (Multi-Language Version) *3*4	PLX930-XPE1G-M1-BLD	○	○	○	○
CF Card Unit	PL-CF200-BLD	○	○	○	○
DIM Module DDR <512MB>	PSA-DDR512	○	○	○	○
DIM Module DDR <1GB>	PSA-DDR1G	○	○	○	○
HDD Unit	PL-HD240	○	○	○	○
CF Card Unit	PL-CF200	○	○	○	○
Full-sized Board Cover (2-slot type)	PL-FC200	○	○	○	○
Full-sized Board Cover (4-slot type)	PL-FC210	○	○	○	○
RS-232C/485 Conversion Unit	PL-RC500	○	○	○	○
USB Cable	5m	○	○	○	○
	128MB	○	○	○	○
	256MB	○	○	○	○
	512MB	○	○	○	○
CF Card *3	CA3-CFCALL/128MB-01	○	○	○	○
	CA3-CFCALL/256MB-01	○	○	○	○
	CA3-CFCALL/512MB-01	○	○	○	○
	CA6-CFCALL/1GB-01	○	○	○	○
CD-ROM Drive Unit	PSS-CD01	○	○	○	○
Screen Protection Sheet <PL-X930 Series> 5 Sheets/Set	PL-CS100	○	○	○	○
Installation Gasket <PL-7930 Series>	PL7900-WP00	○	○	○	○
Installation Gasket <PL-6930 Series>	PL6900-WP00	○	○	○	○
Backlight <PL-7930 Series> 2 pieces/set (for 1 unit)	CA3-BLU15-01	○	○	○	○
Backlight <PL-6930 Series> 2 pieces/set (for 1 unit)	CA3-BLU12-01	○	○	○	○
Installation Fasteners *4	CA3-ATFALL-01	○	○	○	○

\*1 Shipped built-to-order. \*2 Not installed with operating system. \*3 CF Card Unit (PL-CF200-BLD) is required. \*4 Standard attachment for all models.

PS SERIES Type G

Product Name	Model	PS-400G	PS-3600G
		Download Cable (Serial)	PSG-CB01
Download Cable (USB)	FP-US00	○	○
Pin-jack Cable	GP077-SDAD10	○	○
Printer Cable	PSM-PRCB00	○	○
PCMCIA Unit	PSG-PCM00	○*1	○
DIO Unit	PSG-XY08	○*1	○
Desktop Stand	CA1-STDLRG-01	○	○
CF Card Adaptor *2	GP077-CFAD10	○	○
	128MB	CA3-CFCALL/128MB-01	○
	256MB	CA3-CFCALL/256MB-01	○
	512MB	CA3-CFCALL/512MB-01	○
CF Card	CA6-CFCALL/1GB-01	○	○
Screen Protection Sheet <PS-3600G>	CA3-DFS12-01	○	○
Screen Protection Sheet <PS-400G>	PS400-DF00	○	○
Installation Gasket <PS-3600G>	CA3-WPG12-01	○	○
Installation Gasket <PS-400G>	PS400-WP00-MS	○	○
Connector Cover <PS-3600G>	CA3-BUSCVR-01	○	○
Connector Cover <PS-400G>	PS-BH00	○	○
Backlight <PS-3600G>	CA3-BLU12-01	○	○
Backlight <PS-400G>	PS400-BU00-MS	○	○
Installation Fasteners <PS-3600G> *3	CA3-ATFALL-01	○	○
Installation Fasteners <PS-400G> *3	GP070-AT01	○	○

\*1 PCMCIA and DIO unit drivers cannot be used simultaneously.  
 \*2 Required when using CF card for application development on a PC with a PCMCIA interface.  
 \*3 Standard attachment for all models.

PS SERIES Type B

Product Name	Model	PS-2000B	PS-2000B 6 slots
		CPU Celeron®566MHz	PL-CPU566-BLD
CPU Pentium® III 1GHz	PL-CPU1G-BLD	○	○
DIM Module <128MB>	PL-EM128-BLD	○	○
DIM Module <256MB> *2	PL-EM256-BLD	○	○
HDD Unit *2 *3	PSB-HD020-BLD	○	○
Windows®2000 Multi Language Pre-installed HDD	PSB-HD020-W2K/ML-BLD	○	○
Windows®XP Multi Language Pre-installed HDD	PSB-HD020-WXP/ML-BLD	○	○
Windows®XP Embedded SP2 Supported CF Card (Multi-Language Version)*5	PS2000B-XPE1G-M1-BLD	○	○
CD-ROM/FD Drive Unit *2	PSB-CD/FD01-BLD	○	○
CF Card Unit *2	PSB-CFU01-BLD	○	○
DIM Module <256MB>	PL-EM256	○	○
HDD Unit *3	PSB-HD020	○	○
CD-ROM/FD Drive Unit	PSB-CD/FD01	○	○
CF Card	128MB	CA3-CFCALL/128MB-01	○
	256MB	CA3-CFCALL/256MB-01	○
	512MB	CA3-CFCALL/512MB-01	○
	1GB	CA6-CFCALL/1GB-01	○
CF Card Unit	PSB-CFU01	○	○
RS-232C/RS-485 Conversion Unit	PL-RC500	○	○
Software Mirroring Utility	PL-SM900	○	○
Installation Fasteners *4	PSB-AT01	○	○

\*1 Shipped built-to-order.  
 \*2 Items listed in "Model" column can be purchased separately. Model numbers will differ from built-to-order models.  
 \*3 Optional maintenance product. Not installed with operating system.  
 \*4 Standard attachment for all models. \*5 CF Card Unit (PSB-CFU01-BLD) is required.

FP SERIES

Product Name	Model	FP-3710T	FP-3650T	FP-3600T	FP-3500T
		Serial Interface Cable	5m	○	○
USB Cable *1	5m	○	○	○	○
USB Front Cable	CA5-USBEXT-01	○	○	○	○
Analog RGB Cable	4.5m	○	○	○	○
DVI-D Cable	5m	○	○	○	○
	10m	○*2	○*2	○	○
15-inch Unit Cover	CA4-CVR15-01	○	○	○	○
Desktop Stand *3	CA1-STDLRG-01	○	○	○	○
Wall-mounting Adapter *3	CA1-WMALRG-01	○	○	○	○
Rear Cover	CA1-RCVLRG-01	○	○	○	○
Screen Protection Sheet (5 Sheets/Set)	PSL-DF00	○	○	○	○
Screen Protection / Antifouling Sheet (5 Sheets/Set)	CA3-DFS15-01	○	○	○	○
Backlight	10.4 inch	GP577RT-BL00-MS	○	○	○
	12.1 inch	CA3-BLU12-01	○	○	○
	12.1 inch (XGA)	CA5-BLU12XGA-01	○	○	○
	15 inch	CA3-BLU15-01	○	○	○
Installation Gasket	GP570-WP10-MS	○	○	○	○
Installation Fasteners *4	CA3-WPG15-01	○	○	○	○
	GP070-AT01	○	○	○	○
	CA3-ATFALL-01	○	○	○	○

\*1 Compatible only with Windows® 2000 and Windows® XP. \*2 Available only when connected to PS-2000B. (Setting alternation on PS-2000B is required)  
 \*3 Rear cover (CA1-RCVLRG-01) is required. \*4 Standard attachment for all models.

## "Trouble prevention" and "Maintenance cost reduction" achieved. Disks are not required in computers on production sites.

<Diskless improved; Compatible with Windows® XP Embedded>

**Solution to vibration and shock damage caused on production sites.  
For avoiding HDD troubles. For preventing erroneous data operation.**

- Key functions extracted from Windows® XP Professional are installed onto a CF card.
- Because there is no hard disk, there is no danger of hard disk crashes.
- Compared to hard disk products, the CF card shows excellent shock and vibration resistance.
- When Write Filter (EWF) is enabled, the CF card cannot be written to, and data damage can be prevented.  
\*When EWF is OFF, users can set or install applications.
- When EWF is ON, because data cannot be written to the CF card, the lifetime of the CF card is extended. This eliminates one of the trouble factors.
- When EWF is enabled, it is not necessary to shut down the OS. The unit can therefore be turned ON and OFF whenever at will.  
\*If the power is turned off while writing data into other storage, proper transfer and safety of the data cannot be guaranteed.
- The RAS function, which detects potential malfunctions in advance, can also be used.
- Reduced number of replacement parts can decrease operation costs.
- The accessory recovery tool allows users to easily recover the CF card.



### Windows® XP Embedded Supported CF Cards Comparison List

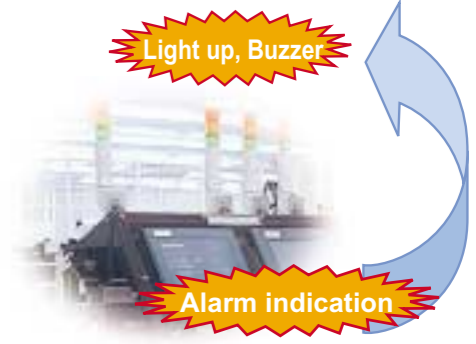
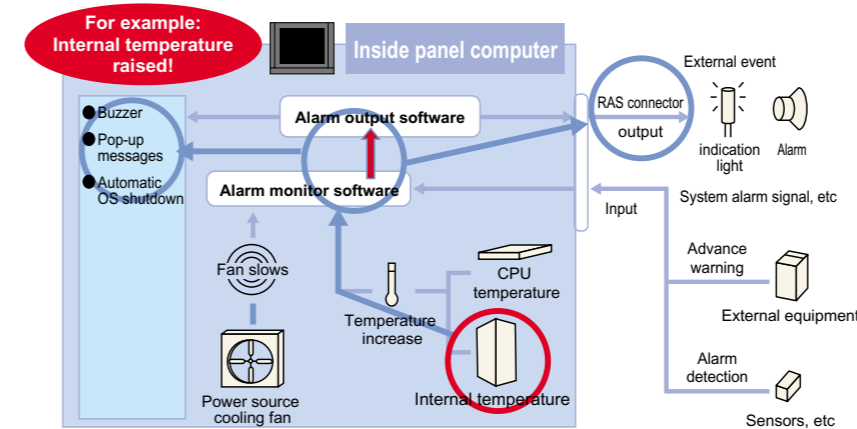
Supported Model	PL-X930 Series PS-3650A/3651A PS-2000B	PS-3700A (Pentium® 4 Model)	PS-3700A/3701A (Eden™ Model)	
Supported Service Pack 2	○	○	○	—
Write Filter (EWF) Function	○	○	○	○
RAS Function	○	○	○	○
RAM Disk Function	○	○	○	—
Multi-Language *1	○	○	○	—
Windows® Media Player	△*2	△*2	△*2	○
Combination with HDD	○	—	—	—
Recovery Tool	○	○	○	○
Free Space *4	Japanese version: Approx. 430 MB Multi-Language version: Approx. 150 MB △*3		Japanese version: Approx. 250 MB English version: Approx. 300 MB	

\*1 Languages available in the Multi-Language version are as follows: English / French / German / Italian / Russian / Chinese / Taiwanese.  
\*2 Please download and install Windows®MediaPlayer through the Microsoft official website.  
\*3 By deleting unnecessary languages, the Multi-Language version (ML) can be reduced to approx. 120MB as the maximum space.  
\*4 Please contact your Pro-face sales representative for supported models and other details.

## Detect potential system errors in advance!! RAS function reduces the maintenance item number and avoids loss.

<RAS Function>

RAS is a generic term for equipment monitor functions developed for the purpose of improving the reliability of computer systems.  
RAS detects an alarm indication and alerts the user of the potential occurrence of the alarm in advance, allowing the user to take early preventive actions.  
Alarm detection signals can be input and output through the RAS port. This enables alarm output to the indication light or buzzer.  
The application link libraries (API-DLL) for VC, VC++, and VB are available. Using the API-DLL can reduce the number of development processes.



<b>Alarm monitor</b>	<ul style="list-style-type: none"> <li>·Power voltage alarm;</li> <li>·Internal temperature alarm</li> <li>·Cooling fan speed alarm</li> <li>·Watch dog timer time out</li> <li>·Touch panel alarm (Orange LED lit)</li> <li>·Blackout of backlight detection function</li> <li>·Soft mirror alarm</li> <li>·SMART alarm</li> </ul>
<b>External input signal</b>	<ul style="list-style-type: none"> <li>·General purpose signal input</li> <li>·Remote reset input</li> </ul>
<b>External output signal</b>	<ul style="list-style-type: none"> <li>·General purpose output signal</li> <li>·Alarm output; indication light output</li> </ul>
<b>Various processing functions</b>	<ul style="list-style-type: none"> <li>·LED indicator</li> <li>·Pop-up message output</li> <li>·Buzzer output</li> <li>·System shutdown</li> <li>·System reset</li> </ul>

\* The RAS function and its GUI depend on the model. Please contact your Pro-face sales representative for supported models and other details.

## GP function installed in a panel computer! The screen created by GP-Pro EX can be used in the panel computer!

<Screen Editor>

Available soon

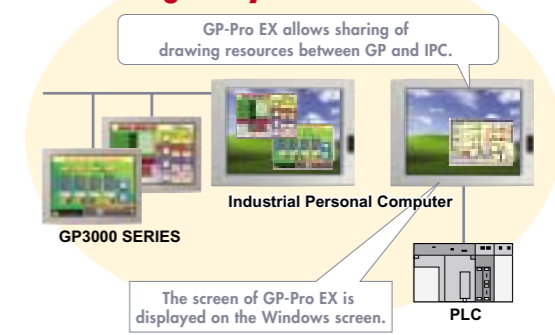


GP-Pro EX for Panel Computer Runtime Engine

## WinGP for Industrial Personal Computer

WinGP gives you the solution!

- Screen Editor for Panel Computer
- Compatible with GP screen data
- Multi-Driver Supported with various Host Controller (PLC, Temperature Controller, Inverter, etc)



\* Supported Model (Model No.) PS Series Type A : PS3650A-T41, PS3651A-T41, PS3700A-T41-ASU-P41 PS Series Type B : PS2000B-41  
\* Supported OS Windows®2000, Windows®XP, Windows®XP Embedded