![Pro-face logo] **Pro-face**
for the best interface

Industrial Personal Computer
PS4000 SERIES
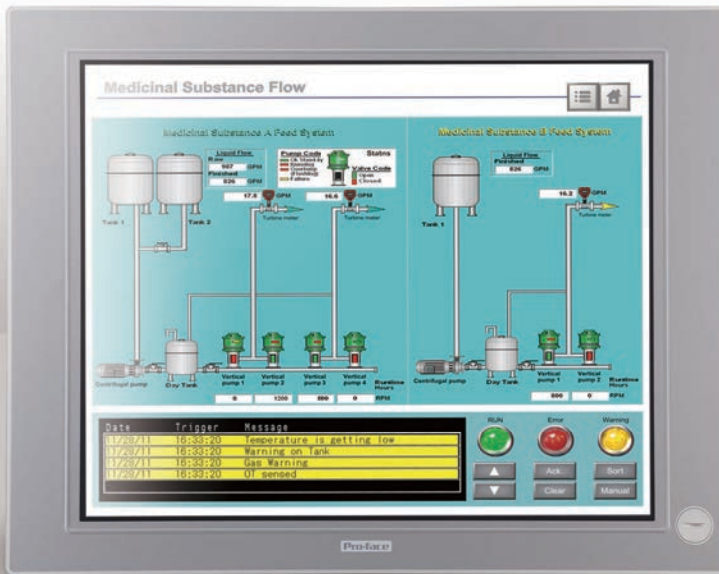
	Display	Expansion Slot	CPU
PS-4800 Standard Interface • COM x 2 • LAN x 2 • CF x 1 • DVI-I x 1 • USB x 5 *Core™ 2 Duo 115W, Atom™ 95W*	**19**inch SXGA (1,280×1,024)	**2**slots (PCI x1, PCIe (x4) x1) or (PCI x2)	
PS-4700 Aluminum Bezel Standard Interface • COM x 2 • LAN x 2 • CF x 1 • DVI-I x 1 • USB < 5 Stainless Steel Bezel *Core™ 2 Duo 100W, Atom™ 70W*	**15**inch XGA (1,024×768)	**1**slot (PCI×1) None	**Core™ 2 Duo P8400** **2.26**GHz
PS-4000B Standard Interface • COM x 2 • LAN x 2 • CF x 1 • DVI-I x 1 • USB x 5 *Core™ 2 Duo 90W, Atom™ 60W*	**—**	**5**slots *3 (PCI x2, PCIe (x1) x3) or (PCI x4, PCIe (x1) x1) **2**slots (PCI x1, PCIe (x4) x1) or (PCI x2) **1**slot (PCI×1)	**Atom™ N270** **1.6**GHz 🚫FANLESS
PS-4700 Aluminum Bezel Standard Interface • COM x 1 • LAN x 1 • CF x 1 • USB < 3 • SD x 1 Stainless Steel Bezel *Atom™ 31W*	**15**inch XGA (1,024×768)	None	**Atom™ Z510** **1.1**GHz 🚫FANLESS

Built-to-Order PS4000 Series

The PS4000 Series are sold Built-to-Order (BTO). You can select your desired PC and customize it in detail.*

* Please note that some patterns cannot be selected depending on the model or combination. Confirm your selection with the BTO sheet on the Pro-face web site at :

profaceamerica.com

Five keywords for ensuring stable

Dependability

■ **Reliable Operation with a Disk-less System**

SSD or CF Card with Embedded OS ensures stable operation even in locations subject to vibration or shock.

For longer CF Card life, we recommend enabiling the Enhanced Write Filter (EWF) and saving log data to another storage device.

■ **Continuous Operation When Needed**

All models, including those with a hard disk drive, can be used continuously for 24 hours.

■ **Extend Product Part Life**

A large-size heat sink and intelligent fan control, reduces over-heating and extends the life of IPC components.*

* Fan-less model has lower operating noise and heat generation.

■ **Sites Where Power Failures Occur Frequently or the Voltage is Unstable**

UPS (Uninterruptible Power Supply)*

* DC power supply model only

Stable Supply

■ **Consistent Operating System Support**

A licensing agreement with Microsoft allows us to provide a consistant supply of Windows operating systems.

High Performance

■ **High-speed Processing Combinations**

Windows® 7 for the OS, Core™ 2 Duo for the CPU. PCI Express for the expansion slot.

Power Supply	RAM	Operating System	Storage Device	Expansion Option	
				Slide-in Slot	I/F Port
AC 100-240V	Core™ 2 Duo P8400 2 to 8GB *2	Windows® XP Professional (32bit)	CF 4GB to 8GB	DVD Multi drive	RS-232C x2
DC*1 24V			HDD 250GB (RAID Options Available)	HDD 250GB	RS-232C/422/485 (optional)
					Ethernet 10/100/1000 Mbit/s
			SSD 80GB to 160GB		
DC*1 24V	Atom™ N270 1 to 3GB	Windows® 7 Ultimate (32/64bit)	SSD 32GB		RS-232C/422/485
					DVI-D
DC*1 24V	1 to 2GB	Windows® Embedded 2009 (32bit) / Windows® XP Professional (32bit)	CF 4GB to 8GB / CF 16GB	—	Ethernet 10/100/1000 Mbit/s (2nd Ethernet optional)

*1: Special power supply is available for conformance to marine vessel standards or for the use of UPS.
*2: 6GB or 8GB is available when choosing 64-bit OS.
*3: 5 slot unit is available when choosing Core™ 2 Duo P8400 only.
*4: Special order only.

For detailed specifications, visit Pro-face web site. profaceamerica.com
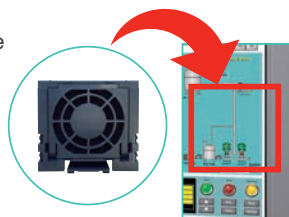
use of PCs in Industrial environments

Maintainability

■ **Easily Replaceable HDD Drive**
The "slide-in slot" cartridge for HDD/SSD, and DVDRW allows for quick and easy replacement.

Sliding expansion Slot (Slide-in Slot)
HDD/SSD Slot (Slide-in Disk)

■ **Easily Replaceable Fan**
A fan kit is provided as a maintenance product to enable easy replacement.

■ **Global Support**
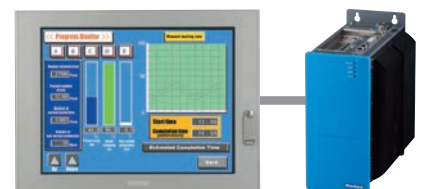Exceptional service and support is available on a global scale.

Compatibility

■ **Re-use Existing HMI Applications**
WinGP allows screens created with GP-Pro EX to be used on a PC.

■ **Industrial Touch Monitor**
The PS4000 Series supports the connections* to Pro-face FP3000 Series Flat Panel monitor.

*Connection using DVI Cable
Note: Rev 2 or later supports DVI

WinGP IPC Runtime Software for GP-Pro EX
## Maximizing Your Industrial Computer Potential

Operator Interface On-Demand with the flexibility of an industrial computer.

WinGP: Maximizing Your Industrial Computer Potential

WinGP is runtime software for GP-Pro EX HMI created applications. HMI applications are quickly installed on an industrial touch screen computer, creating Windows-based HMI.

For • PS4000/ • APL3000/ • PS3000

Re-use HMI applications

PLC

Inverter

Temperature controller
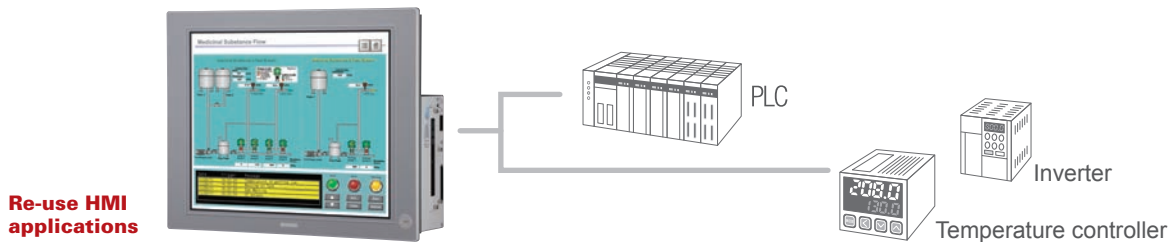
GP-Pro EX HMI application will communicate with various controllers using a Pro-face industrial computer.

Pro-face PS4000 Industrial PC

Pro-face PS4000 Industrial computers offer a wide variety of options, drives, fanless, RAID, SSD Drives, and many more.

PS4000 Standard Performance

Reduce System Space

Eliminate Components and cut Panel Costs

Conventional systems that combine a PC, a graphic operator interface and a PLC can be simplified to an industrial PC and a PC, GUI, and PLC are simplified to an IPC and PLC. Reduced components reduces maintenance time and costs.

PC   Programmable Display   Industrial Panel Computer

• PS4000/ • APL3000/ • PS3000

PLC

PLC
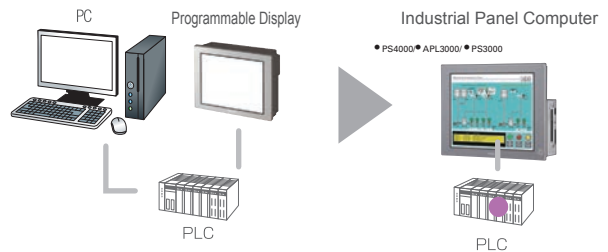
Re-use Existing HMI Applications

Stay flexible with your choice of technology

Industrial PC

GP4000
AGP/LT/AST3000

3rd Party Application Flexibility

Communicate to WinGP runtime using a flexible link to user applications

▶ Link to User Database using the Handling API
Enables a user application to receive WinGP status and to change its setup. (Provided as the DLL file)

▶ Control from User Application using Device Address API
Enables a user application to read/write devices on controllers connected with WinGP. (Provided as a DLL file)

Supported Languages
• Visual C++   • Visual Basic   • C#   • VB.NET   • VBA

GP-Pro EX

Developmental software for both dedicated innovations in visualization solutions and open windows-based operator interfaces.

Individual functions can be selected at a glance using these icons.

Created screens can be visually selected using the thumbnail view.

A screen call menu can be displayed.
If you activate the screen call function while creating a screen, the called screen is moved below, and displayed as a thumbnail.

The editing screen can be customized to give one click access to frequently used

Various graphs such as trend graphs can be placed on the screen.

Your search can be narrowed to select the best parts suited for the application.

Frequently-used functions can be assigned to function keys, making mouse-free editing possible.

Creating great HMI applications is as easy as 1, 2, 3, 4.

Intuitive Self-Guiding HMI Software

Four Easy Steps

1. Set up communications
- Choose and set up PLC and third-party devices effortlessly.
- System settings are arranged for ease of use.

2. Design application/screens
- Drag-and-drop addressing, parts and colors.
- User can create reusable pre-defined templates.

3. Simulate and test
- Verify before you travel.
- Debug your application without hardware.
- Test without downloading.

4. Download/transfer
- Tamper-proof HMI application – password-protected project source.

04

Outstanding Support

√ *No Phone Bouncing*
√ *No Contracts*
√ *No Hassles*

Outstanding Technical Services

Pro-face is committed to delivering excellent technical support whether you are local or abroad. We have trained specialists both in-house and in the field.

Better than Basic Support Services:
- Product level Technical Support
- Component Selection recommendations
- Compatibility testing to customer hardware
- Product Migration Compatibility Assistance
- Pros and Cons of IPC vs Dedicated HMI

Proof-of-Concept Assistance:
- Perform project setup and debug
- HMI Application Project Analysis
- Application Conversion assistance for smooth transition to Pro-face

Speak with a live Support Engineer who will solve your problem within 24 hours 95% of the time, or for those challenging issues in 72 hours 99% of the time without an expensive service contract.

customercare@profaceamerica.com or 1-800-289-9266

We Have Your Answers

Free **Our Technical Support web site contains a vast resource of product and application knowledge.**

Everything you expect plus:
- Sample HMI applications
- Frequently asked questions
- Product certifications
- New and enhanced communication drivers
- Application notes and migration guides

Visit hmisource.com/otasuke

Training That Makes A Difference

Superb Training

HMI is not just about replacing panel buttons and lamps. Contact our experts to learn more about the all the Pro-face advanced HMI features and solutions.

Let Our Experts Help You:

- Our staff includes highly trained and field experienced solution engineers
- We use working hardware and software
- We have full agenda courses for maximum benefit
- We teach from beginner to advanced levels
- We help to progress the creation of your HMI solution
- We show you how to network your factory floor information with your Enterprise business system

Flexible Training Options*:

√ Regional hands-on training

√ On-site classroom training

√ Pro-face sponsored webinars

√ Remote access one-on-one training

√ *Free* self-paced online training

* Some training provided at a modest price.

Pro-face training options and tools not only save time, but also shows you how to achieve maximum operator interface performance.

We're Here When You Need Us

Pro-face Free Learning Center is available 24/7. If you are a beginner developing HMI applications you will find this resource invaluable. Advanced users can take advantage of our HMI time saving tips and tricks.

- Topic based quick start guides
- Self-study textbook tutorials
- Video and podcast-based training modules
- Advanced tips/tricks techniques collection

Skills

Pro-face

for the best interface

Visit hmisource.com/otasuke/support/qa/getstartindex.html

We are always striving to connect customers to their clients, processes, and people through high quality products, and service and support from around the world.

We provide our best possible support for each and every individual customer.

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.

ACCESS!! # www.profaceamerica.com

Global Network and Global Support

⚠ WARNING

HAZARD OF OPERATOR INJURY, OR UNINTEDED EQUIPMENT DAMAGE

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

Failure to follow these instruction can result in death or serious injury, unintended equipment damage.

- 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.
- Electric equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Digital for any consequences arising out of the use of this material.
- All product names used in this catalog are the registered trademarks or trademarks of their respective companies.
- All information contained in this catalog is subject to change without notice.

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