

Pro-face Reliable Support

Support

The contact for all is Pro-face. Causes of trouble are smoothly investigated. Also various inquiries are accepted at 51 branches in 24 countries around the world. Our products can be purchased from anywhere in the world using the same model No.

Easy to develop

Pro-face has already evaluated PS5000 series and the BLUE Open Studio. You can start developing immediately.

Stable, long-term supply of OS updates

WES 7	Windows® 7	Windows® 8.1	Windows® 10
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Long Life

At Pro-face, our devices are built under a Microsoft® OEM Customer License Agreement for Embedded Systems. We can offer products with long-term support, giving customers peace of mind when attaching our products to existing equipment.

⚠ WARNING

HAZARD OF OPERATOR INJURY, OR UNINTENDED EQUIPMENT DAMAGE
Before operating any of these products, be sure to read all related manuals thoroughly. Failure to follow these instructions can result in death, serious injury, or 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.
- Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric Japan Holdings 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.
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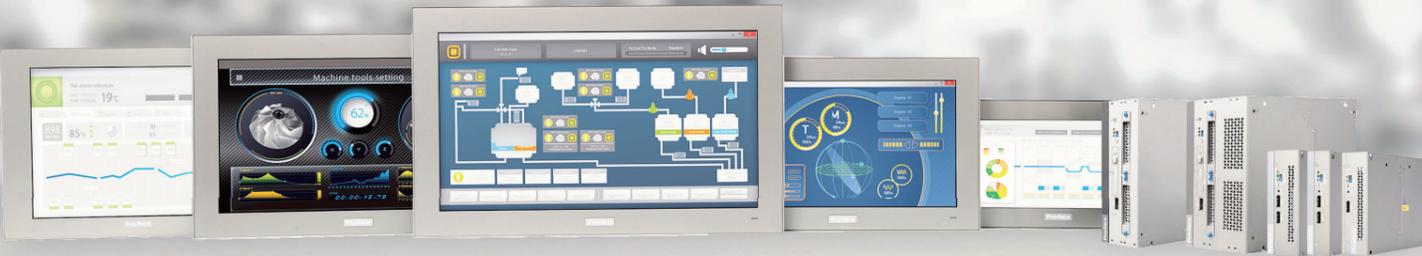
Pro-face
by Schneider Electric

Industrial PC PS5000 Series



Enter the Next Stage of Smart manufacturing
with Pro-face Industrial PC

Enter the Next Stage of Smart manufacturing with Pro-face Industrial PC



Modular Type

Combine the Box type and the Display in a range of sizes. With a variety of Windows platforms available, and Pro-face's build to order offerings, the application options are endless. Also a Box module can be used alone.

Display Module



Box Module



SIZE

The Display type consists of a box with a display module ranging from 12 to the ultra-large 22 inch screen.

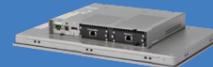
- 22"W
- 19"
- 15"W
- 15"
- 12"W
- 12"

CPU

- Core i7**
High-Performance CPUs provide the processing power needed to run today's demanding applications.
Storage: HDD/SSD/CF card
- Celeron**
Suitable for use as a compact edge terminal.
Storage: M.2 SSD *
- Atom**
Suitable for any slight data collection.
Storage: eMMC

Display Adapter

The Display Adapter allows you to add a display unit with P55000 Series as a host.



Slim Type

This integrated panel offers a drastically slimmer profile with less wasted space, while retaining the high performance. The optimized design is ideal for equipment that needs to save space.

- CPU: Core i3, Atom
- SIZE: 19"W, 15"W, 10"W



Enclosed Model (Core i3 and 19 Wide only)

PS5000 Series Line up

Modular Type

CPU	RAM (Memory)	Supported OS *1	Primary Storage	Expansion Slot	Optional Interface slot	Display
Core™ i7 - 4650U 1.7 GHz	8 GB or 16 GB	Windows® 7 Ultimate (64 bit) Windows® Embedded Standard 7 (32 bit / 64 bit) MUI Windows® Embedded 8.1 Industry (64 bit) Windows® 10 IoT Enterprise 2016 LTSB (64 bit)	HDD SSD CFast Card*	0 or 2 slots	2 slots	Projected Capacitive 22" Wide / 19" Wide / 15" Wide / 12" Wide/ Resistive Film 15" / 12" * BOX module can be used alone.
Celeron® 2980U 1.6 GHz	4 GB or 8 GB		* WES7 only			
Atom® E3930 1.3 GHz	4 GB	Windows® 10 IoT Enterprise 2016 LTSB (64 bit)	M.2 SSD eMMC	0 slot 0 slot	0 or 1 slot 1 slot	

Display Adapter

Distance	Cable	Multiple display	Host	Display
5m	Touch :USB Video: Display port	Not available	BOX module/ PC	Projected Capacitive 22" Wide / 19" Wide / 15" Wide / 12" Wide Resistive Film 15" / 12"
100m	Touch and Video: Ethernet	Up to 4 displays *mPCIe Transmitter (For BOX module) and Transmitter/Receiver(For each display) are required	BOX module	Projected Capacitive 19" Wide / 15" Wide / 12" Wide Resistive Film 15" / 12"

* Display adapter is not available for Slim Type

Slim Type

CPU	RAM (Memory)	Supported OS *1	Storage	Expansion Slot	Optional Interface slot	Display
Core™ i7 - 4650U 1.7 GHz	8 GB	Windows® 7 Ultimate (64 bit) Windows® Embedded Standard 7 (32 bit / 64 bit) MUI Windows® Embedded 8.1 Industry (64 bit) Windows® 10 IoT Enterprise 2016 LTSB (64 bit)	HDD SSD CFast Card*	0 slot	1 slot	Projected Capacitive 19" Wide * / 15" Wide * Also apply to Enclosed Model
Atom® E3827U 1.75 GHz	4 GB		* WES7 only			Projected Capacitive 15" Wide / 10" Wide /

For detailed specifications, refer to the web site.
(<https://www.proface.com/en/product/ipc/ps5000/lineup>)



Reliable Hardware and options

Hardware design to easily troubleshoot and maintenance

The modular configuration allows for fast recovery in the event of display failures, because you can simply remove and replace the display. The cartridge-type hard disk drive also enables smooth replacement in case of disk problems.

Hotswap Supported

*Supported version : PV 04 or later

Solid quality with carefully-selected, reliable parts

At Pro-face, we carefully select, evaluate, and test every component. Key components with limited lifetime, such as power supplies and capacitors, are our top priority for quality. We only use data storage that has passed stringent tests, including high-temperature operation.

A variety of options to fit the required interface

Choose from a variety of interface options. In addition to the wide variety of standard interfaces built-in, the additional interface options make this an ideal product for customers looking to expand connected equipment.

For detailed specifications, refer to the Web site
(<https://www.proface.com/en/product/ipc/ps5000/option>)

Cybersecurity

The Modular Type is compatible with encryption enabled by TPM, WindowsBitLocker and McAfee Embedded Control license (Whitelisting) is provided.

Compatible panel cut out

From the PL3000 Series released in 2007, we have provided consistently panel-cut dimension compatible products.

Remote display

Screens can be expanded with Factory specifications for displays, industrial computers and personal computers.

For detailed specifications, refer to the web site.
(<https://www.proface.com/en/product/pc/select>)

Connect, Visualize and Solve. Achieve Smart manufacturing with PS5000 Series.

Pro-face provides reliable Industrial PC and flexible software that meets the need of Smart manufacturing.
Pro-face takes your manufacturing site to the Next level with innovative solutions.

Use as an Edge Terminal

Installing the highly reliable PS5000 Series as an edge terminal enables long term data collection at the manufacturing floor. In addition, combining the PS5000 Series with BLUE Open Studio, compatible with OPC, allows you to analyze error occurrence tendency and relationship with data in IT systems.

PS5000 Series

No need for regular maintenance thanks to a fan-less design and Environmental resistance that meets any situation.

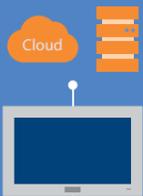


Open Studio

BLUE Open Studio provides native OPC interfaces, such as OPC DA (Server/Client), OPC HDA (Server), UA (Server/Client) and more. BLUE Open Studio also supports MQTT communication driver.



High connectivity provides visualization of a production line composed of different devices



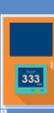
Ethernet



Fieldbus



Serial



PS5000 Series

A wide variety of Optional Cards are provided and a range of connection methods are supported.

Ethernet
Serial (RS-232/422/485)
CANopen
Profibus DP master
EtherCAT



Open Studio

BLUE Open Studio has over 250 built in drivers, supporting major PLC manufacturers such as Allen Bradley, Siemens, Schneider, Mitsubishi, Omron, as well as standard protocols MODBUS RTU/ASCII, Profibus are included.

OVER 250 DRIVERS

Easily communicate with a master data -Recipe- system

BLUE Open Studio is rich in recipe features and therefore allows you to adjust the purchase of materials according to shipping status and easily handle small-lot production.

Open Studio

Save time and maintain consistency by automating part parameters or production quantities.



Manage the entire process with Business Intelligence dashboard



Open Studio

Through intuitive and customizable configurations, the BLUE Open Studio Business Intelligence Dashboard Template allows retrieving information from Microsoft Access or SQL Server and displays it in meaningful easy-to-understand dashboards.

- Pie Graphs
- Pareto Graphs
- Line Charts
- Tables

Remote Access

The ability to perform operations with tablet means a worker can continue with operation checks even when the operation panel for checking I/O and other operations is not near the location, such as with large equipment or lengthy equipment that uses conveyors.



Open Studio

Access your BLUE Open Studio Screen from any device with a browser that supports HTML5, such as iPads, iPhones, Android devices, Windows devices, and others.

- Studio Mobile Access
App store/Google play
PC browser
- Secure Viewer
Dedicated application

Pro-face Remote HMI Server

By installing Pro-face Remote HMI Server on any PC or IPC, you can use Pro-face Remote HMI to monitor and operate and monitor windows applications such as Excel and PDF.

Advanced Traceability System

Using PS5000 Series and BLUE Open Studio, you can use LOT numbers collected from a range of sensors with logging and also manage them from reception of materials, to production and then shipping. Moreover, it's easy to collaborate with database and other Windows applications. BLUE Open Studio has lots of features suitable for configuring a system compatible with "21 CFR Part 11" of FDA (Food and Drug Administration) in the U.S.A, for example, e-signs and Security system.

PS5000 Series

It's easy to collaborate with other Windows applications. The Operating System is stable and will be supported for years to come.

- Windows® 7 Ultimate (64 bit)
- Windows® Embedded Standard 7 (32 bit / 64 bit) MUI
- Windows® Embedded 8.1 Industry (64 bit)
- Windows® 10 IoT Enterprise 2016 LTSB (64 bit)

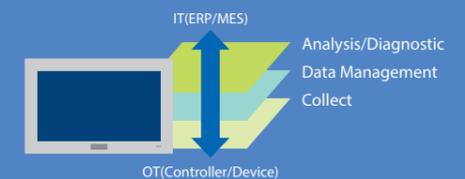
Open Studio

Take advantage of built-in functionality to create 21 CFR part 11 compliant projects with traceability and e-signatures.



Visualize production targets and results with a connected database

You can check stock status of raw materials, grasp the work situation, and manufacture as scheduled without any waste, keeping the upper database connected.



PS5000 Series

You can choose from a wide range of lineups according to the needs of the site, from high performance Core i7 model to Atom model, depending on processing capacity.



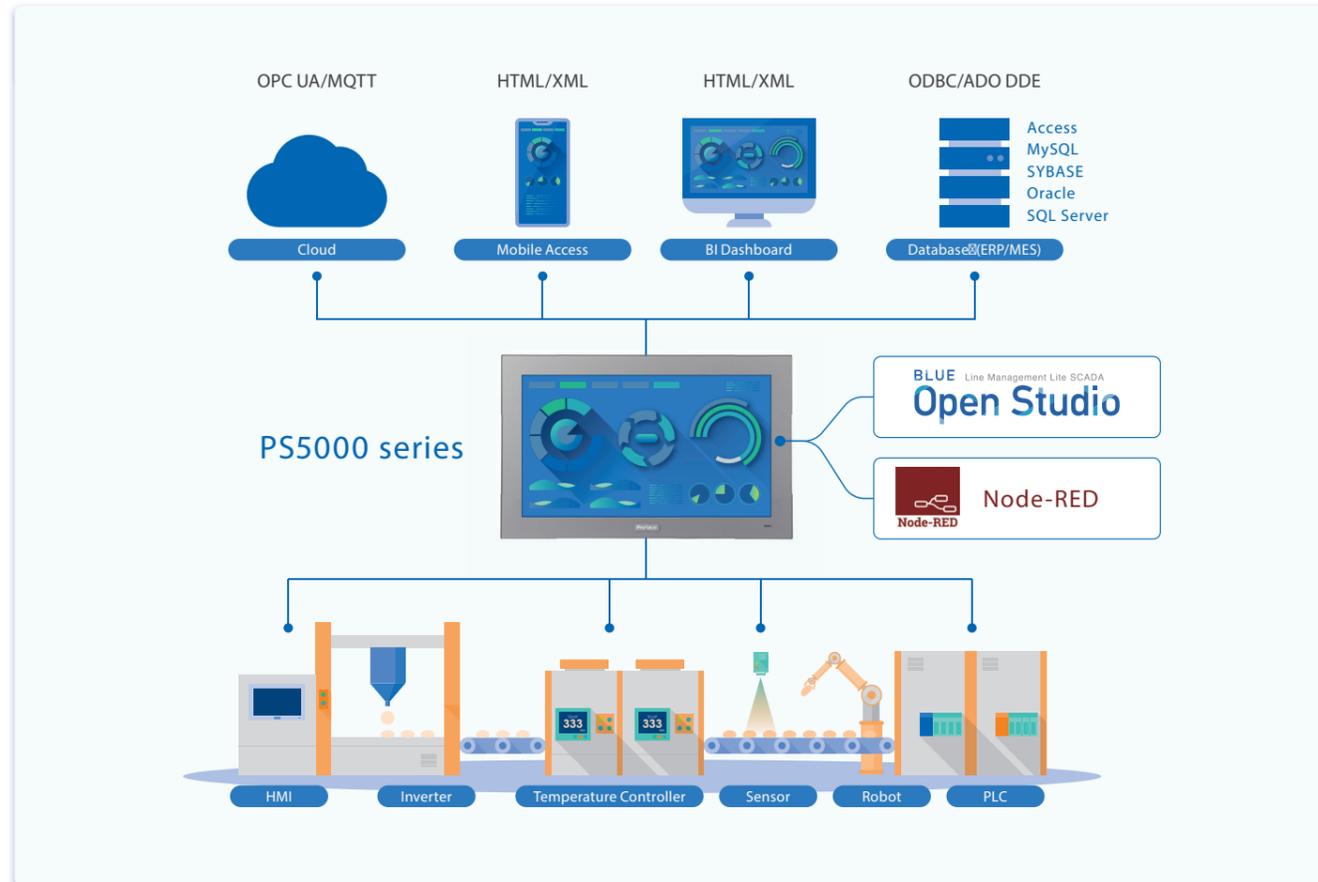
Open Studio

Capture data for production, uptime/downtime and more to any SQL database. Using its embedded database interface, BLUE Open Studio can easily provide data from the production site to third-party systems (e.g. ERP, MES) or get data from them.

- ADO.NET Provider
- OLE DB provider
- ODBC driver
- SQL databases (SQL Server 2012, 2014, 2016 and beyond)

PS5000 series × Pro-face IoT Solution

floor has further evolved into Industry 4.0 or Smart Factory. Using highly reliable PS5000 Series, Lite SCADA software "BLUE Open Studio" and Open source framework "Node-Red" allows you to smartly handle line management from visualization of equipment to edge control and connection to IT network.



"IoT at manufacturing floor" connects machines and enables data visualization. As the needs of collaboration with management systems and a range of BI tools have been increasing. IoT at manufacturing

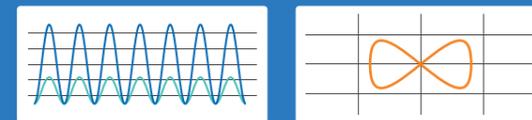
BLUE Line Management Lite SCADA Open Studio

Capabilities

- Scripting
- Animation
- Recipes
- Email (SMTP)
- Security
- Database
- Multi-touch
- FTP
- Symbols
- Events
- Reports
- Historical Performance
- Tags Database
- Graphics and Design Tools
- Scalable
- PDF Export
- Troubleshooting
- Trends
- Scheduler
- SSL Support for Emails
- Gestures
- Multi-Language
- OPC
- DDE Client
- Alarms
- ActiveX and .NET
- Intellectual Property Protection
- Custom Widgets

Trends

Real-time and Historical trends, and SPC functionality are supported. Log data in binary format, or to any local or remote SQL database. Color or fill trends with graphic elements to enhance clarity of data. Date/Time based or numeric (X/Y plot) trends give you the flexibility to display information that best suits your application. BLUE Open Studio supports direct connection to Historian



Scripting

Two powerful scripting languages are supported; built-in BLUE Open Studio functions and standard VBScript. Take advantage of widely available resources for VBScript. Both the native BLUE Open Studio scripting language and VBScript can be used simultaneously to give you the functionality you need, even from thinclients.

Custom Widgets

Custom Widgets provides the ability to integrate third-party web-based controls into the HMI/SCADA project screens. Develop and share a library of controls that can be easily integrated into an application and accessible through multiple platforms.

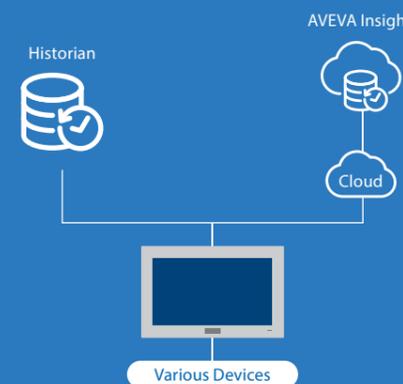


Reports

Create clear, concise reports in plain text, RTF, XML, PDF, HTML, and CSV or integrate with Microsoft Office programs such as Excel. Get the data you need, in the format you need it, to make informed decisions, fast.

Support for Historian and AVEVA Insight

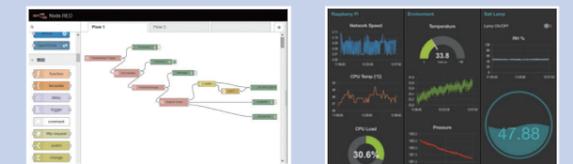
BLUE Open Studio includes support for saving historical data from some task worksheets to a Historian database or AVEVA Insight.



Node Red



Node-RED is an open source framework with which you can create applications connecting APIs, online services, and devices. Utilizing premade processes available in a box called "Node", you can easily create IoT applications and connect them in a flow chart manner. Because Pro-face has the Node dedicated for PS5000 available, you can create a dashboard that monitors status of PS5000 as well.



e.g. Dashboard monitoring status of PS5000 with Node-Red

BLUE Open Studio license series introduction

Name	Number of Tags	License Category/Media	Model Number
BLUE Open Studio for Supervision	64000 Tags	Build time DVD	PFXBOSBT64KDV80
		Build time Sticker	PFXBOSBT64KLV80
BLUE Open Studio for Line Management Plus	32000 Tags	Runtime DVD	PFXBOSRT64KDV80
		Runtime Sticker	PFXBOSRT64KLV80
BLUE Open Studio for Line Management	4000 Tags	Build time DVD	PFXBOSBT4KDV80
		Build time Sticker	PFXBOSBT4KLV80
BLUE Open Studio for Machine Control	1500 Tags	Runtime DVD	PFXBOSRT4KDV80
		Runtime Sticker	PFXBOSRT4KLV80
BLUE Open Studio Thin Client License	—	—	PFXBOSTC
BLUE Open Studio Import Wizard License	—	—	PFXBOSTK
BLUE Open Studio USB Hard key	—	—	PFXBOSUSBL

* To upgrade from Version 8.0 to 8.1, upgrade licenses are required.

For detailed specifications, refer to the Web site (<https://www.proface.com/en/product/soft/blue-os/lineup>).



Industrial PC

PS5000 SERIES

Modular Type

Combine the Box type and the Display in a range of sizes. With a variety of Windows platforms available, and Pro-face's build to order offerings, the application options are endless. Also a Box module can be used alone.



Core i7/Celeron Model

Model	CPU	RAM (Memory)	Supported OS	Storage	Expansion Slot	Optional interface	Projected Capacitive					Resistive Film		Box Type
							22" Wide	19" Wide	15" Wide	12" Wide	10" Wide	15"	12"	
Core i7	Core i7 4650U 1.7 GHz	8 GB or 16 GB	Win7 Ultimate (64 bit) ----- or ----- WES7 (32 / 64 bit) ----- or ----- Win8.1 Industry (64bit) ----- or ----- Win10 IoT Enterprise (64bit)*1	HDD (500 GB / 1 TB) ----- or ----- SSD (128 GB / 256 GB) ----- or ----- CFast Card (16GB*2 / 32GB)*3	0 slot or 2 slots *4	x 2	✓	✓	✓	✓		✓	✓	PS-5000B
Celeron	Celeron 2980U 1.6 GHz	4 GB or 8 GB					✓	✓	✓	✓		✓	✓	PS-5000B

Atom Model

Model	CPU	RAM (Memory)	Supported OS	Storage	Expansion Slot	Optional interface	Projected Capacitive					Resistive Film		Box TYPE
							22" Wide	19" Wide	15" Wide	12" Wide	10" Wide	15"	12"	
Atom (Optional Interface Mounted Type)	Atom E3930 1.3 GH	4 GB or 8 GB	Win10 IoT Enterprise (64bit) *1	M.2 SSD (64 GB / 128 GB / 256 GB) ----- or ----- HDD *2 (500 GB / 1 TB) ----- or ----- SSD *2 (256 GB)	0 slot	x 1	✓	✓	✓	✓		✓	✓	PS-5001B
Atom (Optional Interface Non-mounted Type)				M.2 SSD (64 GB / 128 GB / 256 GB)		None *5	✓	✓	✓	✓	✓	PS-5001B		
Atom (Entry)		4GB		eMMC (64 GB / 128 GB)		x 1	✓	✓	✓	✓	✓	PS-5001B		

Slim Type

This integrated panel offers a drastically slimmer profile with less wasted space, while retaining the high performance. The optimized design is ideal for equipment that needs to save space.



Model	CPU	RAM (Memory)	Supported OS	Storage	Expansion Slot	Optional interface	Projected Capacitive					Resistive Film		
							22" Wide	19" Wide	15" Wide	12" Wide	10" Wide	15"	12"	
Core i3	Core i3 4010U 1.7 GHz	8 GB	Win7 Ultimate (64 bit) ----- or ----- WES7 (32 / 64 bit) ----- or ----- Win8.1 Industry (64bit) ----- or ----- Win10 IoT Enterprise (64bit)*1	HDD (500 GB / 1 TB) ----- or ----- SSD (128 GB / 256 GB) ----- or ----- CFast Card*6 (16GB*2 / 32GB)*3	0 slot	x 1		✓ Also apply to Enclosed Model	✓					
Atom	Atom E3827 1.75 GHz	4 GB							✓		✓			

*1 Apply BAT Tool (Update patch) to use UWF (Unified Write Filter) with Windows 10 IoT Enterprise 2016 LTSB.

https://www.pro-face.com/otasuke/download/ps/ps5000/update/bat_tool_uwf.htm

*2 For secondary storage only.

*3 Only WES7

*4 PCI or PCIe combination can be chosen for a 2 slot type model.

*5 Internal expansion can be used with optional interface non-mounted type.

*6 Except of Enclosed Model

Modular Type <Core i7 Model>

PS5000 SERIES

Functional Specification

	PS-5900W	PS-5800W	PS-5700W	PS-5600W	PS-5700T	PS-5600T
Display Size	21.5" Wide	18.5" Wide	15.6" Wide	12.1" Wide	15" Wide	12" Wide
Display Aspect Ratio	16:9				4:3	
Display Colors	16.7 Million					
Backlight	LED Life Span > 50,000 h @ 25 °C [77 °F]					
Brightness Control	Step Less Adjustment					
Supported OS	Windows 7 Ultimate (64 bit) Windows Embedded Standard 7 (32 bit / 64 bit) MUI Windows Embedded 8.1 Industry (64 bit) Windows 10 IoT Enterprise 2016 LTSB (64 bit) * Apply BAT Tool (Update patch) to use UWF (Unified Write Filter) with Windows 10 IoT Enterprise 2016 LTSB. https://www.pro-face.com/otasuke/download/ps/ps5000/update/bat_tool_uwf.htm					
CPU	Intel Core i7-4650U 1.7 GHz					
Main Memory	8 GB or 16 GB, DDR3L 1600 MHz, SO-DIMM SDRAM 512 KB MRAM for the user applications					
Storage Memory	HDD (500GB / 1TB) / SSD (256GB) x 2, CFast *1 (16GB *2 / 32GB)					
Graphics Accelerator	Intel HD Graphics					
Video Memory	Up to 2 GB ,Shared System Memory					
Graphics	Full HD (1,920 x 1,080 Pixels)	FWXGA (1,366 x 768 Pixels)	WXGA (1,280 x 800 Pixels)	XGA (1,024 x 768 Pixels)		
Touch Panel Type	Capacitive multi-touch 5 simultaneous touch (projected capacitive)				Resistive single touch	
Touch Panel Resolution	4,096 x 4,096			2,048 x 2,048		
Interface	Serial (COM1)	RS-232C/422/485 (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	USB 3.0 x 2, USB 2.0 x 2 (Type A)			USB 3.0 x 2, USB 2.0 x 2 USB 2.0 (front) x 1 (Type A)	
	Video	Display Port x 2				
	Expansion Slot *3	"PCIe (x1) x 1 + PCIe (x4) x 1" or "PCI x 2" or "PCI x 1 + PCIe (x4) x 1"				
	Internal Expansion	Mini PCIe x 2				

*1 Only Windows Embedded Standard 7 (32bit / 64bit) MUI

*2 For secondary storage only

*3 2 slot model only

General Specification

	PS-5900W	PS-5800W	PS-5700W	PS-5600W	PS-5700T	PS-5600T
Rated Input Voltage	DC Power Model: 24 Vdc ±20 % When using AC power supply unit : 100 to 240 Vac *4					
Power Consumption	50.7 W (Max 64.85 W)	48.1 W (Max 63.28 W)	46.1 W (Max 54.5 W)	42.6 W (Max 58.65 W)	44.9 W (Max 53.04 W)	43.6 W (Max 57.87 W)
In-Rush Current	8.9 A					
Surrounding Air Temperature	When using SSD / CFast running: 0 to 55 °C [32 to 131 °F] When using HDD running: 0 to 45 °C [32 to 113 °F] When using PCI/PCLE: 0 to 45 °C [32 to 113 °F] When using internal expansion x2 + display module: 0 to 45 °C [32 to 113 °F] When using Gigabit Ethernet PoE interface card for internal expansion: 0 to 45 °C [32 to 113 °F]					
Storage Temperature	-30 to 70 °C [-22 to 158 °F]					
Ambient Humidity	10 to 95 % RH (Wet Bulb Temperature: 40 °C [104 °F] max. - No Condensation)					
Storage Humidity	10 to 95 % RH (Wet Bulb Temperature: 40 °C [104 °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	Operation for products with SSD or CFast: 5 to 500 Hz: 2Grms Operation for products with HDD: 5 to 500 Hz: 1Grms					
Concussion Resistance	IEC 60068-2-27 Ea Test					
Electromagnetic Compatibility (EMC)	Immunity to high frequency interference electromagnetic emissions class A					
Structure	IP66 front side of display					
Installation Configuration	Panel Mounting or VESA Mounting *5					
Cooling Method	Passive Heat Sink *The operating temperature is limited to 45 °C and the cooling FAN is required for PCI/PCIE cards installed on board with power consumption from 3 W to 6 W max. for two cards or 10 W maximum for one card.					
Weight Approx. (0 Slot)	9.7 kg [21.3 lbs]	8.3 kg [18.3 lbs]	7.4 kg [16.3 lbs]	5.35 kg [11.76 lbs]	7.3 kg [16 lbs]	5.4 kg [11.87 lbs]
Weight Approx. (2 Slot)	10.5 kg [23.1 lbs]	9.1 kg [20.1 lbs]	8.2 kg [18.1 lbs]	6.15 kg [13.56 lbs]	8.1 kg [17.8 lbs]	6.2 kg [13.67 lbs]
External Dimensions (0 Slot)	W558.4 x H349.8 x D93.2 mm [W21.98x H13.77 x D3.67 in.]	W488.3 x H309 x D93.2 mm [W19.21 x H12.17 x D3.67 in.]	W419.7 x H269 x D93.2 mm [W16.52 x H10.59 x D3.67 in.]	W329.2 x H231.3 x D93.2 mm [W12.96 x H9.11 x D3.67 in.]	W390.7 x H290 x D93.2 mm [W15.38 x H11.42 x D3.67 in.]	W319.1 x H245.1 x D93.2 mm [W12.56 x H9.65 x D3.67 in.]
External Dimensions (2 Slot)	W558.4 x H349.8 x D131.2 mm [W21.98x H13.77 x D5.16 in.]	W488.3 x H309 x D131.2 mm [W19.21 x H12.17 x D5.16 in.]	W419.7 x H269 x D131.2 mm [W16.52 x H10.59 x D5.16 in.]	W329.2 x H231.3 x D131.2 mm [W12.96 x H9.11 x D5.16 in.]	W390.7 x H290 x D131.2 mm [W15.38 x H11.42 x D5.16 in.]	W319.1 x H245.1 x D131.2 mm [W12.56 x H9.65 x D5.16 in.]
Panel Cut Dimensions	W550.3 x H341.8 mm [W21.66 x H13.45 in.]	W479.3 x H300.3 mm [W18.87 x H11.82 in.]	W412.4 x H261.7 mm [W16.24 x H10.30 in.]	W310 x H221 mm [W12.2 x H8.7 in.]	W383.5 x H282.5 mm [W15.09 x H11.12 in.]	W301.5 x H227.5 mm [W11.87 x H8.95 in.]

*4 For use at 100 to 240 Vac, an optional AC power supply unit (PFXZPBPUAC2) that is separately sold is required.

*5 For VESA mounting, an optional VESA mounting kit that is separately sold is required.

Modular Type <Celeron Model>

PS5000 SERIES

Functional Specification

	PS-5900W	PS-5800W	PS-5700W	PS-5600W	PS-5700T	PS-5600T
Display Size	21.5" Wide	18.5" Wide	15.6" Wide	12.1" Wide	15" Wide	12" Wide
Display Aspect Ratio	16:9				4:3	
Display Colors	16.7 Million					
Backlight	LED Life Span > 50,000 h @ 25 °C [77 °F]					
Brightness Control	Step Less Adjustment					
Supported OS	Windows 7 Ultimate (64 bit) Windows Embedded Standard 7 (32 bit / 64 bit) MUI Windows Embedded 8.1 Industry (64 bit) Windows 10 IoT Enterprise 2016 LTSB (64 bit) * Apply BAT Tool (Update patch) to use UWF (Unified Write Filter) with Windows 10 IoT Enterprise 2016 LTSB. https://www.pro-face.com/otasuke/download/ps/ps5000/update/bat_tool_uwf.htm					
CPU	Intel Celeron 2980U 1.6 GHz					
Main Memory	4 GB or 8 GB, DDR3L 1600 MHz, SO-DIMM SDRAM 512 KB MRAM for the user applications					
Storage Memory	HDD (500GB / 1TB) / SSD (256GB) x 2, CFast *1 (16GB *2 / 32GB)					
Graphics Accelerator	Intel HD Graphics					
Video Memory	Up to 2 GB ,Shared System Memory					
Graphics	Full HD (1,920 x 1,080 Pixels)	FWXGA (1,366 x 768 Pixels)		WXGA (1,280 x 800 Pixels)	XGA (1,024 x 768 Pixels)	
Touch Panel Type	Capacitive multi-touch 5 simultaneous touch (projected capacitive)				Resistive single touch	
Touch Panel Resolution	4,096 x 4,096			2,048 x 2,048		
Interface	Serial (COM1)	RS-232C/422/485 (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	USB 3.0 x 2, USB 2.0 x 2 (Type A)			USB 3.0 x 2, USB 2.0 x 2 USB 2.0 (front) x 1 (Type A)	
	Video	Display Port x 2				
	Expansion Slot *3	"PCIe (x1) x 1 + PCIe (x4) x 1" or "PCI x 2" or "PCI x 1 + PCIe (x4) x 1"				
	Internal Expansion	Mini PCIe x 2				

*1 Only Windows Embedded Standard 7 (32bit / 64bit) MUI

*2 For secondary storage only

*3 2 slot model only

General Specification

	PS-5900W	PS-5800W	PS-5700W	PS-5600W	PS-5700T	PS-5600T
Rated Input Voltage	DC Power Model: 24 Vdc ±20 % When using AC power supply unit : 100 to 240 Vac *4					
Power Consumption	50.7 W (Max 64.85 W)	48.1 W (Max 63.28 W)	46.1 W (Max 54.5 W)	42.6 W (Max 58.65 W)	44.9 W (Max 53.04 W)	43.6 W (Max 57.87 W)
In-Rush Current	8.9 A					
Surrounding Air Temperature	When using SSD / CFast running: 0 to 55 °C [32 to 131 °F] When using HDD running: 0 to 45 °C [32 to 113 °F] When using PCI/PCIE: 0 to 45 °C [32 to 113 °F] When using internal expansion x2 + display module: 0 to 45 °C [32 to 113 °F] When using Gigabit Ethernet PoE interface card for internal expansion: 0 to 45 °C [32 to 113 °F]					
Storage Temperature	-30 to 70 °C [-22 to 158 °F]					
Ambient Humidity	10 to 95 % RH (Wet Bulb Temperature: 40 °C [104 °F] max. - No Condensation)					
Storage Humidity	10 to 95 % RH (Wet Bulb Temperature: 40 °C [104 °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	Operation for products with SSD or CFast : 5 to 500 Hz: 2Grms Operation for products with HDD : 5 to 500 Hz: 1Grms					
Concussion Resistance	IEC 60068-2-27 Ea Test					
Electromagnetic Compatibility (EMC)	Immunity to high frequency interference electromagnetic emissions class A					
Structure	IP66 front side of display					
Installation Configuration	Panel Mounting or VESA Mounting *5					
Cooling Method	Passive Heat Sink *The operating temperature is limited to 45 °C and the cooling FAN is required for PCI/PCIE cards installed on board with power consumption from 3 W to 6 W max. for two cards or 10 W maximum for one card.					
Weight Approx. (0 Slot)	9.7 kg [21.3 lbs]	8.3 kg [18.3 lbs]	7.4 kg [16.3 lbs]	5.35 kg [11.76 lbs]	7.3 kg [16 lbs]	5.4 kg [11.87 lbs]
Weight Approx. (2 Slot)	10.5 kg [23.1 lbs]	9.1 kg [20.1 lbs]	8.2 kg [18.1 lbs]	6.15 kg [13.56 lbs]	8.1 kg [17.8 lbs]	6.2 kg [13.67 lbs]
External Dimensions (0 Slot)	W558.4 x H349.8 x D93.2 mm [W21.98x H13.77 x D3.67 in.]	W488.3 x H309 x D93.2 mm [W19.21 x H12.17 x D3.67 in.]	W419.7 x H269 x D93.2 mm [W16.52 x H10.59 x D3.67 in.]	W329.2 x H231.3 x D93.2 mm [W12.96 x H9.11 x D3.67 in.]	W390.7 x H290 x D93.2 mm [W15.38 x H11.42 x D3.67 in.]	W319.1 x H245.1 x D93.2 mm [W12.56 x H9.65 x D3.67 in.]
External Dimensions (2 Slot)	W558.4 x H349.8 x D131.2 mm [W21.98x H13.77 x D5.16 in.]	W488.3 x H309 x D131.2 mm [W19.21 x H12.17 x D5.16 in.]	W419.7 x H269 x D131.2 mm [W16.52 x H10.59 x D5.16 in.]	W329.2 x H231.3 x D131.2 mm [W12.96 x H9.11 x D5.16 in.]	W390.7 x H290 x D131.2 mm [W15.38 x H11.42 x D5.16 in.]	W319.1 x H245.1 x D131.2 mm [W12.56 x H9.65 x D5.16 in.]
Panel Cut Dimensions	W550.3 x H341.8 mm [W21.66 x H13.45 in.]	W479.3 x H300.3 mm [W18.87 x H11.82 in.]	W412.4 x H261.7 mm [W16.24 x H10.30 in.]	W310 x H221 mm [W12.2 x H8.7 in.]	W383.5 x H282.5 mm [W15.09 x H11.12 in.]	W301.5 x H227.5 mm [W11.87 x H8.95 in.]

*4 For use at 100 to 240 Vac, an optional AC power supply unit (PFXZPBPUAC2) that is separately sold is required.

*5 For VESA mounting, an optional VESA mounting kit that is separately sold is required.

Modular Type <Atom Model>

PS5000 SERIES

Functional Specification

	PS-5901W	PS-5801W	PS-5701W	PS-5601W	PS-5701T	PS-5601T
Display Size	21.5" Wide	18.5" Wide	15.6" Wide	12.1" Wide	15" Wide	12" Wide
Display Aspect Ratio	16:9				4:3	
Display Colors	16.7 Million					
Backlight	LED Life Span > 50,000 h @ 25 °C [77 °F]					
Brightness Control	Step Less Adjustment					
Supported OS	Windows 10 IoT Enterprise 2016 LTSB (64 bit) <i>* Apply BAT Tool (Update patch) to use UWF (Unified Write Filter) with Windows 10 IoT Enterprise 2016 LTSB.</i> https://www.pro-face.com/otasuke/download/ps/ps5000/update/bat_tool_uwf.htm					
CPU	Atom E3930 1.3 GHz					
Main Memory	4 GB or 8 GB, DDR3L 1600 MHz, SO-DIMM SDRAM					
Storage memory	M.2 SSD (64GB / 128GB / 256GB) x 1, HDD*1 (500GB / 1TB) / SSD*1 (256GB) x 1					
Graphics Accelerator	Intel HD Graphics					
Video Memory	Up to 2 GB ,Shared System Memory					
Graphics	Full HD (1,920 x 1,080 Pixels)	FWXGA (1,366 x 768 Pixels)		WXGA (1,280 x 800 Pixels)	XGA (1,024 x 768 Pixels)	
Touch Panel Type	Capacitive multi-touch 5 simultaneous touch (projected capacitive)				Resistive single touch	
Touch Panel Resolution	4,096 x 4,096			2,048 x 2,048		
Interface	Serial (COM1)	COM1 RS-232 (non isolated, D-Sub 9-pin, plug)				
	Serial (COM2)	COM2 RS-232C/RS-422/485 (non isolated, 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	USB 3.0 x 2, USB 2.0 x 2 (Type A)			USB 3.0 x 2, USB 2.0 x 2 USB 2.0 (front) x 1 (Type A)	
	Video	Display Port x 2				
	Expansion Slot	-				
Internal Expansion	Mini PCIe x 1					

*1 Optional interface mounted type only. For use, an option unit (PFXZPEADHDD2) that is separately sold is required. HDD and SSD can be selected for secondary storage only.

General Specification

	PS-5901W	PS-5801W	PS-5701W	PS-5601W	PS-5701T	PS-5601T
Rated Input Voltage	DC Power Model: 12 to 24 Vdc ±20 % When using AC power supply unit : 100 to 240 Vac *2					
Power Consumption	22.2 W (Max 49.85 W)	21.1 W (Max 48.28 W)	20.2 W (Max 39.5 W)	16.5 W (Max 43.65 W)	18.3 W (Max 38.04 W)	17.1 W (Max 42.87 W)
In-Rush Current	2.03 A					
Surrounding Air Temperature	0...55 °C (32...131 °F): HDD/optional interface installed: limited to 45 °C (113 °F)					
Storage Temperature	-30 to 70 °C [-22 to 158 °F]					
Ambient Humidity	10 to 95 % RH (Wet Bulb Temperature: 40 °C [104 °F] max. - No Condensation)					
Storage Humidity	10 to 95 % RH (Wet Bulb Temperature: 40 °C [104 °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	Operation for products with SSD or eMMC: 5 to 500 Hz: 2Grms Operation for products with HDD : 5 to 500 Hz: 1Grms					
Concussion Resistance	IEC 60068-2-27 Ea Test					
Electromagnetic Compatibility (EMC)	Immunity to high frequency interference electromagnetic emissions class A					
Structure	IP66 front side of display					
Installation Configuration	Panel Mounting or VESA Mounting *3					
Cooling Method	Passive Heat Sink					
Weight Approx. (Optional interface non-mounted type)	7.85 kg [17.25 lbs]	6.45 kg [14.25 lbs]	5.55 kg [12.25 lbs]	3.50 kg [7.71 lbs]	5.45 kg [11.95 lbs]	3.55 kg [7.82 lbs]
Weight Approx. (Optional interface mounted type)	7.9 kg [17.36 lbs]	6.5 kg [14.36 lbs]	5.6 kg [12.36 lbs]	3.55 kg [7.82 lbs]	5.5 kg [12.06 lbs]	3.6 kg [7.93 lbs]
External Dimensions (Optional interface non-mounted type)	W558.4 x H349.8 x D66.0 mm [W21.98x H13.77 x D2.60 in.]	W488.3 x H309 x D66.0 mm [W19.21 x H12.17 x D2.60 in.]	W419.7 x H269 x D66.0 mm [W16.52 x H10.59 x D2.60 in.]	W329.2 x H231.3 x D66.0 mm [W12.96 x H9.11 x D2.60 in.]	W390.7 x H290 x D66.0 mm [W15.38 x H11.42 x D2.60 in.]	W319.1 x H245.1 x D66.0 mm [W12.56 x H9.65 x D2.60 in.]
External Dimensions (Optional interface mounted type)	W558.4 x H349.8 x D82.0 mm [W21.98x H13.77 x D3.23 in.]	W488 x H309 x D82.0 mm [W19.21 x H12.17 x D3.23 in.]	W419.7 x H269 x D82.0 mm [W16.52 x H10.59 x D3.23 in.]	W329.2 x H231.3 x D82.0 mm [W12.96 x H9.11 x D3.23 in.]	W390.7 x H290 x D82.0 mm [W15.38 x H11.42 x D3.23 in.]	W319.1 x H245.1 x D82.0 mm [W12.56 x H9.65 x D3.23 in.]
Panel Cut Dimensions	W550.3 x H341.8 mm [W21.66 x H13.45 in.]	W479.3 x H300.3 mm [W18.87 x H11.82 in.]	W412.4 x H261.7 mm [W16.24 x H10.30 in.]	W310 x H221 mm [W12.2 x H8.7 in.]	W383.5 x H282.5 mm [W15.09 x H11.12 in.]	W301.5 x H227.5 mm [W11.87 x H8.95 in.]

*2 For use at 100 to 240 Vac, an optional AC / DC power adapter (PFXZPSPUAC2, PFXZPBPUAC2) that is separately sold is required.

*3 For VESA Arm mounting, an optional VESA Arm mounting kit (PFXZPBADVS02, PFXZPP12ADVS2) that is separately sold is required.

Modular Type <Atom model (Entry)>

PS5000 SERIES

Functional Specification

	PS-5901W	PS-5801W	PS-5701W	PS-5601W	PS-5701T	PS-5601T
Display Size	21.5" Wide	18.5" Wide	15.6" Wide	12.1" Wide	15" Wide	12" Wide
Display Aspect Ratio	16:9				4:3	
Display Colors	16.7 Million					
Backlight	LED Life Span > 50,000 h @ 25 °C [77 °F]					
Brightness Control	Step Less Adjustment					
Supported OS	Windows 10 IoT Enterprise 2016 LTSB (64 bit) * Apply BAT Tool (Update patch) to use UWF (Unified Write Filter) with Windows 10 IoT Enterprise 2016 LTSB. https://www.pro-face.com/otasuke/download/ps/ps5000/update/bat_tool_uwf.htm					
CPU	Atom E3930 1.3 GHz					
Main Memory	4 GB, DDR3L 1600 MHz, SO-DIMM SDRAM					
Storage memory	eMMC (64 GB / 128 GB)					
Graphics Accelerator	Intel HD Graphics					
Video Memory	Up to 2 GB ,Shared System Memory					
Graphics	Full HD (1,920 x 1,080 Pixels)	FWXGA (1,366 x 768 Pixels)		WXGA (1,280 x 800 Pixels)	XGA (1,024 x 768 Pixels)	
Touch Panel Type	Capacitive multi-touch 5 simultaneous touch (projected capacitive)				Resistive single touch	
Touch Panel Resolution	4,096 x 4,096			2,048 x 2,048		
Interface	Serial (COM1)	COM1 RS-232C/RS-422/485 (non isolated, 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	USB 3.0 x 1, USB 2.0 x 1 (Type A)			USB 3.0 x 1, USB 2.0 x 1 USB 2.0 (front) x 1 (Type A)	
	Video	Display Port x 1				
	Expansion Slot	-				
	Internal Expansion	Mini PCIe x 1				

General Specification

	PS-5901W	PS-5801W	PS-5701W	PS-5601W	PS-5701T	PS-5601T
Rated Input Voltage	DC Power Model: 12 to 24 Vdc ±20 % When using AC power supply unit : 100 to 240 Vac *1					
Power Consumption	21.1 W (Max 44.85 W)	19.5 W (Max 43.28 W)	18.6 W (Max 34.5 W)	15.9 W (Max 38.65 W)	16.7 W (Max 33.04 W)	15.1 W (Max 37.87 W)
In-Rush Current	2.03 A					
Surrounding Air Temperature	0 to 50 °C [32 to 122 °F] Optional interface installed : limited to 45 °C [113 °F]					
Storage Temperature	-30 to 70 °C [-22 to 158 °F]					
Ambient Humidity	10 to 95 % RH (Wet Bulb Temperature: 40 °C [104 °F] max. - No Condensation)					
Storage Humidity	10 to 95 % RH (Wet Bulb Temperature: 40 °C [104 °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	Operation for products with eMMC: 5 to 500 Hz: 2Grms					
Concussion Resistance	IEC 60068-2-27 Ea Test					
Electromagnetic Compatibility (EMC) Structure	Immunity to high frequency interference electromagnetic emissions class A IP66 front side of display					
Installation Configuration	Panel Mounting or VESA Mounting *2					
Cooling Method	Passive Heat Sink					
Weight Approx.	7.8 kg [17.14 lbs]	6.4 kg [14.14 lbs]	5.5 kg [12.14 lbs]	3.45 kg [7.6 lbs]	5.4 kg [11.84 lbs]	3.5 kg [7.71 lbs]
External Dimensions	W558.4 x H349.8 x D74.0 mm [W21.98x H13.77 x D2.91 in.]	W488.3 x H309 x D74.0 mm [W21.98x H13.77 x D2.91 in.]	W419.7 x H269 x D74.0 mm [W21.98x H13.77 x D2.91 in.]	W329.2 x H231.3 x D74.0 mm [W21.98x H13.77 x D2.91 in.]	W390.7 x H290 x D74.0 mm [W21.98x H13.77 x D2.91 in.]	W319.1 x H245.1 x D74.0 mm [W21.98x H13.77 x D2.91 in.]
Panel Cut Dimensions	W550.3 x H341.8 mm [W21.66 x H13.45 in.]	W479.3 x H300.3 mm [W18.87 x H11.82 in.]	W412.4 x H261.7 mm [W16.24 x H10.30 in.]	W310 x H221 mm [W12.2 x H8.7 in.]	W383.5 x H282.5 mm [W15.09 x H11.12 in.]	W301.5 x H227.5 mm [W11.87 x H8.95 in.]

*1 For use at 100 to 240 Vac, an optional AC power supply unit (PFZPBPUC2) that is separately sold is required.

*2 For VESA mounting, an optional VESA mounting kit that is separately sold is required.

Modular Type <Core i7 Model / Celeron Model> Box only

PS5000SERIES

Functional Specification

		PS-5000B	
Model	Core i7 Model	Celeron Model	
OS	Windows 7 Ultimate (64 bit) Windows Embedded Standard 7 (32 bit/64 bit) MUI Windows Embedded 8.1 Industry (64 bit) Windows 10 IoT Enterprise 2016 LTSB (64 bit) * Apply BAT Tool (Update patch) to use UWF (Unified Write Filter) with Windows 10 IoT Enterprise 2016 LTSB. https://www.pro-face.com/otasuke/download/ps5000/update/bat_tool_uwf.htm		
CPU	Core i7-4650U 1.7 GHz	Celeron 2980U 1.6 GHz	
Main Memory	8 GB or 16 GB, DDR3L 1600 MHz, SO-DIMM SDRAM 512 KB MRAM for the user	4 GB or 8 GB, DDR3L 1600 MHz, SO-DIMM SDRAM 512 KB MRAM for the user	
Storage memory	HDD (500GB / 1TB) / SSD (256GB) x 2, CFast *1 (16GB *2 / 32GB)		
Graphics Accelerator	Intel HD Graphics 5000	Intel HD Graphics	
Video Memory	Up to 2 GB ,Shared System Memory		
Graphics	Up to Full HD (1,920 x 1,080 Pixels)		
Interface	Serial (COM1)	RS-232C/422/485 (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	USB 3.0 x 2, USB 2.0 x 2 (Type A)	
	Video	Display Port x 2	
	Internal Expansion	Mini PCIe x 1	
	Expansion Slot *2	"PCIe (x1) x 1 + PCIe (x4) x 1" or "PCI x 2" or "PCI x 1 + PCIe (x4) x 1"	

*1 Only Windows Embedded Standard 7 (32bit / 64bit) MUI

*2 2 slot model only

General Specification

		PS-5000B	
Model	Core i7 Model	Celeron Model	
Rated Input Voltage	DC Power Model: 24 Vdc ±20 % When using AC power supply unit : 100 to 240 Vac *3		
Power Consumption	40 W	35 W	
In-Rush Current	8.9 A		
Surrounding Air Temperature	[Vertically placed (Vertical mounting)] 0 to 55 °C [32 to 131 °F] (When using SSD or CFast) 0 to 45 °C [32 to 113 °F] (When using HDD) 0 to 45 °C [32 to 113 °F] (When using PCI/PCIe) When using 4G Cellular Module : 0 to 45 °C [32 to 113 °F] [Horizontally placed (Horizontal mounting)] 0 to 50 °C [32 to 122 °F] (When using SSD or CFast) * A fan kit is required for 2 slot type. 0 to 40 °C [32 to 104 °F] (When using HDD) 0 to 40 °C [32 to 104 °F] (When using Gigabit Ethernet PoE interface card for internal expansion) 0 to 40 °C [32 to 104 °F] (When the total power consumption of two PCI/PCIe cards for expansion slot exceeds 6W) When using 4G Cellular Module : 0 to 45 °C [32 to 113 °F]		
Storage Temperature	-30 to 70 °C [-22 to 158 °F]		
Ambient Humidity	10 to 95 % RH (Wet Bulb Temperature: 40 °C [104 °F] max. - No Condensation)		
Storage Humidity	10 to 95 % RH (Wet Bulb Temperature: 40 °C [104 °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	Operation for products with SSD or CFast card storage device: 5 to 500 Hz: 2Grms Operation for products with HDD storage device: 5 to 500 Hz: 1Grms		
Concussion Resistance	IEC 60068-2-27 Ea Test		
Electromagnetic Compatibility (EMC)	Immunity to high frequency interference electromagnetic emissions class A		
Cooling Method	Passive Heat Sink		
Weight Approx. (0 Slot)	3.1 kg [6.8 lb]		
Weight Approx. (2 Slot)	3.9 kg [8.6 lb]		
External Dimensions (0 Slot)	W65.2 x H207 x D254 mm [W2.57 x H8.15 x D10 in.]		
External Dimensions (2 Slot)	W103.2 x H207 x D254 mm [W4.06 x H8.15 x D10 in.]		

*3 For use at 100 to 240 Vac, an optional AC power supply unit (PFXZPBPUAC2) that is separately sold is required.

Modular Type <Atom Model> Box only

PS5000SERIES

Functional Specification

PS-5001B		
OS	Windows 10 IoT Enterprise 2016 LTSB (64 bit) * Apply BAT Tool (Update patch) to use UWF (Unified Write Filter) with Windows 10 IoT Enterprise 2016 LTSB. https://www.pro-face.com/otasuke/download/ps/ps5000/update/bat_tool_uwf.htm	
CPU	Atom E3930 1.3 GHz	
Main Memory	4 GB or 8 GB, DDR3L 1600 MHz, SO-DIMM SDRAM	
Storage memory	M.2 SSD (64GB / 128GB / 256GB) x 1, HDD*1 (500GB / 1TB) / SSD*1 (256GB) x 1	
Graphics Accelerator	Intel HD Graphics	
Video Memory	Up to 2 GB ,Shared System Memory	
Graphics	Up to Full HD (1,920 x 1,080 Pixels)	
Interface	Serial (COM1)	COM1 RS-232 (non isolated, D-Sub 9-pin, plug)
	Serial (COM2)	COM2 RS-232C/RS-422/485 (non isolated, 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	USB 3.0 x 2, USB 2.0 x 2 (Type A)
	Video	Display Port x 2
	Internal Expansion	Mini PCIe x 1
	Expansion Slot	-

*1 Optional interface mounted type only. For use, an option unit (PFXZPEADHDD2) that is separately sold is required. HDD and SSD can be selected for secondary storage only.

General Specification

PS-5001B	
Rated Input Voltage	DC Power Model: 12 to 24 Vdc $\pm 20\%$ When using AC power supply unit : 100 to 240 Vac *2
Power Consumption	25 W
In-Rush Current	2.03 A
Surrounding Air Temperature	[Horizontally placed (Horizontal mounting)] 0 to 55 °C [32 to 131 °F] HDD/optional interface installed : limited to 45 °C [113 °F]
Storage Temperature	-30 to 70 °C [-22 to 158 °F]
Ambient Humidity	10 to 95 % RH (Wet Bulb Temperature: 40 °C [104 °F] max. - No Condensation)
Storage Humidity	10 to 95 % RH (Wet Bulb Temperature: 40 °C [104 °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	Operation for products with SSD or eMMC: 5 to 500 Hz: 2Grms Operation for products with HDD : 5 to 500 Hz: 1Grms
Concussion Resistance	IEC 60068-2-27 Ea Test
Electromagnetic Compatibility (EMC)	Immunity to high frequency interference electromagnetic emissions class A
Cooling Method	Passive Heat Sink
Weight Approx. (Optional interface non-mounted type)	1.25 kg [2.75 lb]
Weight Approx. (Optional interface non-mounted type)	1.3 kg (2.86 lbs)
External Dimensions (Optional interface non-mounted type)	W38 x H150 x D187 mm [W1.50 x H5.91 x D7.36 in.]
External Dimensions (Optional interface mounted type)	W54 x H150 x D187 mm [W2.13 x H5.91 x D7.36 in.]

*2 For use at 100 to 240 Vac, an optional AC power supply unit (PFXZPBUAC2) that is separately sold is required.

Modular Type <Atom Model(Entry)> Box only

PS5000SERIES

Functional Specification

PS-5001B		
OS	Windows 10 IoT Enterprise 2016 LTSB (64 bit) * Apply BAT Tool (Update patch) to use UWF (Unified Write Filter) with Windows 10 IoT Enterprise 2016 LTSB. https://www.pro-face.com/otasuke/download/ps/ps5000/update/bat_tool_uwf.htm	
CPU	Atom E3930 1.3 GHz	
Main Memory	4 GB, DDR3L 1600 MHz, SO-DIMM SDRAM	
Storage memory	eMMC x 1	
Graphics Accelerator	Intel HD Graphics	
Video Memory	Up to 2 GB ,Shared System Memory	
Graphics	Up to Full HD (1,920 x 1,080 Pixels)	
Interface	Serial	RS-232C/RS-422/485 (non isolated, 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	USB 3.0 x 1, USB 2.0 x 1 (Type A)
	Video	Display Port x 1
	Internal Expansion	Mini PCIe x 1
	Expansion Slot	-

General Specification

PS-5001B	
Rated Input Voltage	DC Power Model: 12 to 24 Vdc ±20 % When using AC power supply unit : 100 to 240 Vac *2
Power Consumption	20 W
In-Rush Current	2.03 A
Surrounding Air Temperature	[Operating temperature fo Box Atom (PFXPL2B5, PFXPL2B6)] 0 to 50 °C [32 to 122 °F] Optional interface installed : limited to 45 °C [113 °F]
Storage Temperature	-30 to 70 °C [-22 to 158 °F]
Ambient Humidity	10 to 95 % RH (Wet Bulb Temperature: 40 °C [104 °F] max. - No Condensation)
Storage Humidity	10 to 95 % RH (Wet Bulb Temperature: 40 °C [104 °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	Operation for products with eMMC: 5 to 500 Hz: 2Grms
Concussion Resistance	IEC 60068-2-27 Ea Test
Electromagnetic Compatibility (EMC)	Immunity to high frequency interference electromagnetic emissions class A
Cooling Method	Passive Heat Sink
Weight Approx.	1.2 kg (2.64 lbs)
External Dimensions	W46 x H150 x D187 mm [W1.81 x H5.91 x D7.36 in.]

*1 For use at 100 to 240 Vac, an optional AC power supply unit (PFXZPBPUAC2) that is separately sold is required.

Slim Type <Core i3 Model>

PS5000 SERIES

Functional Specification

	PS-5811W	PS-5711W	PS-5821W
Model	Core i3 Model		
Display Size	18.5"	15.6"	18.5"
Display Aspect Ratio	16:9		
Display Colors	16.7 Million		
Backlight	LED Life Span > 50,000 h @ 25 °C [77 °F]		
Brightness Control	Step Less Adjustment		
Supported OS	Windows 7 Ultimate (64 bit) Windows Embedded Standard 7 (32 bit/64 bit) MUI Windows Embedded 8.1 Industry (64 bit) Windows 10 IoT Enterprise 2016 LTSP (64 bit) * Apply BAT Tool (Update patch) to use UWF (Unified Write Filter) with Windows 10 IoT Enterprise 2016 LTSP. https://www.pro-face.com/otasuke/download/ps/ps5000/update/bat_tool_uwf.htm		
CPU	Intel Core i3-4010U 1.7GHz		
Main Memory	8 GB, DDR3L 1600 MHz, SO-DIMM SDRAM		
Storage Memory	HDD (500GB / 1TB) / SSD (256GB) x 2, CFast (16GB*1 / 32GB) x 1	HDD or SSD x1	
Graphics Accelerator	Intel HD Graphics 4400		
Video Memory	Up to 2 GB ,Shared System Memory		
Graphics	FWXGA (1,366 x 768 Pixels)		
Touch Panel Type	Capacitive Multi-touch 5 Simultaneous Touch (Projected Capacitive)		
Touch Panel Resolution	4,096 x 4,096		
Interface	Serial (COM1)	RS-232C (D-sub 9-pin, Plug)	RS-232C (M12 A-coding, 8-pin Plug)
	Serial (COM2)	RS-232C / 422 / 485 (D-sub 9-pin, Plug)	-
	Ethernet (LAN1)	10/100/1000 Mbit/s (RJ-45 Modular Jack)	10/100/1000 Mbit/s (M12 A-coding, 8-pin Socket)
	Ethernet (LAN2)	10/100/1000 Mbit/s (RJ-45 Modular Jack)	10/100/1000 Mbit/s (M12 A-coding, 8-pin Socket)
	USB	USB 3.0 x 2 (Type A)	USB 2.0 x 1 (M12 A-coding, 8-pin Socket)
	Video	HDMI x 1	-
	Audio	Line Out x 1	-
	Internal Expansion	Mini PCIe x 1	-

*1 For secondary storage only

General Specification

	PS-5811W	PS-5711W	PS-5821W
Model	Core i3 Model		
Rated Input Voltage	DC Power Model: 24 Vdc ±20 % When using AC power supply unit : 100 to 240 Vac *2		DC Power Model: 24 Vdc ±20 % (M12 A-coding, 8-pin Female)
Power Consumption	28 W (Max 60 W)	18 W (Max 60 W)	35 W (Max 60 W)
In-Rush Current	7 A		
Surrounding Air Temperature	When using SSD/CFast running : 0 to 50 °C [32 to 131 °F] When using HDD running : 0 to 45 °C [32 to 113 °F] When using 4G Cellular Module : 0 to 45 °C [32 to 113 °F]		
Storage Temperature	-20 to 60 °C [-4 to 140 °F]		
Ambient Humidity	10 to 95 % RH (Wet Bulb Temperature: 40 °C [104 °F] max. - No Condensation)		
Storage Humidity	10 to 95 % RH (Wet Bulb Temperature: 40 °C [104 °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	Operation for products with SSD or CFast card storage device: 5 to 500 Hz: 2Grms Operation for products with HDD storage device: 5 to 500 Hz: 1Grms		
Concussion Resistance	IEC 60068-2-27 Ea Test		
Electromagnetic Compatibility (EMC)	Immunity to high frequency interference electromagnetic emissions class A		
Structure	IP66 front side of display		IP66 (All Around)
Installation Configuration	Panel Mounting		VESA Mounting
Cooling Method	Passive Heat Sink		
Weight Approx.	7.0 kg [15.44 lb]	6.0 kg [13.22 lb]	8 kg [17.63 lb]
External Dimensions	W488 x H309 x D56.7 mm [W19.21 x H12.17 x D2.23 in.]	W419.7 x H269 x D56.7 mm [W16.52 x H10.59 x D2.23 in.]	W488 x H309 x D65 mm [W19.21 x H12.17 x D2.56 in.]
Panel Cut Dimensions	W479.3 x H300.3mm [W18.87 x H11.82 in.]	W412.4 x H261.7 mm [W16.24 x H10.3 in.]	-

*2 For use at 100 to 240 Vac, an optional AC power supply unit (PFxzPSPUAC3) that is separately sold is required.

Slim Type <Atom Model>

PS5000 SERIES

Functional Specification

	PS-5701W	PS-5501W
Model	Atom Model	
Display Size	15.6"	10.1"
Display Aspect Ratio	16:9	
Display Colors	16.7 million	267,000
Backlight	LED Life Span > 50,000 h @ 25 °C [77 °F]	LED Life Span > 25,000 h @ 25 °C [77 °F]
Brightness Control	Step Less Adjustment	
Supported OS	Windows 7 Ultimate (64 bit) Windows Embedded Standard 7 (32 bit/64 bit) MUI Windows Embedded 8.1 Industry (64 bit) Windows 10 IoT Enterprise 2016 LTSP (64 bit) * Apply BAT Tool (Update patch) to use UWF (Unified Write Filter) with Windows 10 IoT Enterprise 2016 LTSP. https://www.pro-face.com/otasuke/download/ps/ps5000/update/bat_tool_uwf.htm	
CPU	Atom E3827, 1.75 GHz	
Main Memory	4 GB, DDR3L 1600 MHz, SO-DIMM SDRAM	
Storage Memory	HDD (500GB / 1TB) / SSD (256GB) x 2, CFast (16GB*1 / 32GB) x 1	
Graphics Accelerator	Intel HD Graphics	
Video Memory	Up to 2 GB ,Shared System Memory	
Graphics	FWXGA (1,366 x 768 Pixels)	WXGA (1,280 x 800 Pixels)
Touch Panel Type	Capacitive Multi-touch 5 Simultaneous Touch (Projected Capacitive)	
Touch Panel Resolution	4,096 x 4,096	
Interface	Serial (COM1) RS-232C (D-sub 9-pin, Plug)	
	Serial (COM2) RS-232C / 422 / 485 (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 USB 3.0 x 1, USB 2.0 x 1 (Type A)	
	Internal Expansion Mini PCIe x 1	

*1 For secondary storage only

General Specification

	PS-5701W	PS-5501W
Model	Atom Model	
Rated Input Voltage	DC Power Model: 24 Vdc ±20 % When using AC power supply unit : 100 to 240 Vac *2	
Power Consumption	18 W (Max 30 W)	12 W (Max 24 W)
In-Rush Current	7.5 A	
Surrounding Air Temperature	When using SSD/CFast running : 0 to 55 °C [32 to 131 °F] When using HDD running : 0 to 45 °C [32 to 113 °F] When using 4G Cellular Module : 0 to 45 °C [32 to 113 °F]	
Storage Temperature	-20 to 60 °C [-4 to 140 °F]	
Ambient Humidity	10 to 95 % RH (Wet Bulb Temperature: 40 °C [104 °F] max. - No Condensation)	
Storage Humidity	10 to 95 % RH (Wet Bulb Temperature: 40 °C [104 °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	Operation for products with SSD or CFast card storage device: 5 to 500 Hz: 2Grms Operation for products with HDD storage device: 5 to 500 Hz: 1Grms	
Concussion Resistance	IEC 60068-2-27 Ea Test	
Electromagnetic Compatibility (EMC)	Immunity to high frequency interference electromagnetic emissions class A	
Structure	IP66 front side of display	
Installation Configuration	Panel Mounting or VESA Mounting *3	
Cooling Method	Passive Heat Sink	
Weight Approx.	3.9 kg [8.6 lb]	2.5 kg [5.51 lb]
External Dimensions	W419.7 x H269 x D61.9 mm [W16.52 x H10.59 x D2.44 in.]	W283.1 x H202.3 x D61.3 mm [W11.15 x H7.96 x D2.41 in.]
Panel Cut Dimensions	W412.4 x H261.7 mm [W16.24 x H10.3 in.]	W274.6 x H193.8 mm [W10.81 x H7.63 in.]

*2 For use at 100 to 240 Vac, an optional AC power supply unit (PFXZPSPUAC2) that is separately sold is required.

*3 For VESA mounting, an optional VESA mounting kit (15.6": PFXZPSADVS152, 10.1": PFXZPSADVS102) that is separately sold is required.