

# Replacement Book

PFXSP5400WAD +  
PFXSP5B41 (Advanced Display + Open Box)  
→ PS6000 series 10-inch Wide Display +  
Basic Box (Atom)

## Preface

This guidebook introduces the procedures to replace PFXSP5400WAD + PFXSP5B41 with PS6000 series 10-inch Wide Display Module + Basic Box Module. The recommended replacement models are as shown below.

\* The PS6000 series 10-inch Wide Display Module is hereinafter called PS6000 10"W and the PS6000 series Basic Box Module is called BasicBox.

| Currently used device  |  | Recommended replacement model  |
|--|--|--|
| <p><b>SP-5400WA</b><br/> <b>(Advanced Display)</b><br/> <b>+ SP-5B41 (Open Box)</b><br/>                     PFXSP5400WAD      +      ⇒<br/>                     PFXSP5B41<br/>                     or PFXSP5B411<br/>                     or PFXSP5B412</p> |  | <p><b>PS6000 10"W + Basic Box (Atom)</b><br/>                     Model : PFXP6ADxxxxxxxx00 (Intel X6211E Atom 2 Cores DIMM-4GB)</p> |

### Safety Information

To properly use the products described in this book, please follow the directions below.

- Be sure to read the manual and the other provided documents before use.
- Only persons with the expertise of electrical equipment construction method and related law and also the adequate skills should be allowed to install, connect, and maintain the products.

We are not responsible for death, serious injury or unintended equipment damage incurred as the result of failure to follow these instructions.

#### Trademarks

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### **Models of PS6000 series**

PS6000 series are products of CTO (Configure To Order).

Please confirm CTO models on the Web site before placing orders at the time of purchase.

Generate CTO models.

<https://www.proface.com/en/product/ipc/ps6000/configurator>



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## Chapter 1 Specifications Comparison

### 1.1 Comparison of display specifications between SP-5400WA + SP-5B41 and PS6000 10"W + Basic Box

| Display Specifications        |  |   |   |
|-------------------------------|--|---|---|
|                               |  | SP-5400WA + SP-5B41   | PS6000 10"W + Basic Box   |
|                               |  |  |                                |
| <b>Display Type</b>           | TFT Color LCD (7" Wide)  |   | TFT Color LCD (10" Wide)  |
| <b>Display Resolution</b>     | WVGA 800 x 480   |   | WXGA 1280 x 800   |
| <b>Display Colors</b>         | 262,144 colors   |   | Approx.16 million colors  |
| <b>Backlight</b>              | White LED (not user replaceable. When replacement is required, contact customer support.)                                      |   |   |
| <b>Brightness control</b>     | 101 levels (adjusted with touch panel or software)   |   |   |
| <b>Backlight service life</b> | 50,000 hours or more (continuous operation at 25 °C [77 °F]-ambient temperature- before backlight brightness decreases to 50%) |   |   |
| <b>Touch panel</b>            | <b>Type</b>  | Resistive Film (analog, single touch)   | <b>UP!</b> Projected capacitive touch panel (multitouch, simultaneous touch number-2) with optimized noise filter |
|                               | <b>Mode</b>  | None  | <b>UP!</b> 3 modes (Changeable - Standard Mode, Water Detection Mode, and Glove Mode)                             |

1.2 Comparison of performance specifications between SP-5400WA + SP-5B41 and PS6000 10”W + Basic Box

| Performance Specifications |  |   |
|----------------------------|--|---|
|                            | SP-5400WA + SP-5B41  | PS6000 10”W + Basic Box   |
| CPU                        |  | Atom E3825  |
|                            | Base frequency   | 1.33 GHz  |
|                            | Max turbo boost frequency  | -   |
|                            | L2 cache   | 1 MB  |
|                            | Core number  | 2   |
|                            | Thread number  | 2   |
| Main memory                | SP-5B41:<br>DDR3L 1066 MHz - SDRAM 2 GB<br><br>SP-5B411/412:<br>DDR3L SDRAM 4 GB   | <b>UP!</b> 260-pin SO-DIMM socket x 2, DDR4-3200 (Up to 32GB for 2 sockets)<br><br><b>UP!</b> Support In-band ECC |
| Graphics accelerator       | Intel® HD Graphics for Intel Atom® Processor Z3700 Series  | <b>UP!</b> Intel® UHD Graphics for 10th Gen Intel® Processors   |
| Security chip              | -  | <b>UP!</b> TPM 2.0  |
| BIOS                       | Legacy BIOS  | <b>UP!</b> UEFI BIOS  |
| Operating system           | SP-5B41:<br>Open Box (Windows® Embedded Standard 7 Service Pack 1)<br><br>SP-5B411/412:<br>Windows® 10 IoT Enterprise 2019 LTSC 32 bit | <b>UP!</b> Windows® 10 IoT Enterprise 2021 LTSC (64bit) *1  |
| Watchdog timer             | -  | <b>New!</b> Timeout setting from either 1 to 255 seconds, or 1 to 255 minutes, is possible (set up using API)     |
| Buzzer                     | Yes  | Yes   |

\*1 OS will be different between SP5000 and PS6000. Be aware that SP-5B411/412 windows 10 and PS6000 Basic Box is both Windows 10 but different version. Some software might have no compatibility.  
 SP-5B411/412 : Windows® 10 IoT Enterprise **2019** LTSC (**32 bit**)  
 PS6000 Basic Box : Windows® 10 IoT Enterprise **2021** LTSC (**64bit**)

### 1.3 Comparison of general specifications between SP-5400WA + SP-5B41 and PS6000 10"W +

#### Basic Box

| General Specifications                |    | SP-5400WA + SP-5B41   | PS6000 10"W + Basic Box  |
|---------------------------------------|----|---|--|
| Panel cut dimensions                  |    | W190.0 mm x H135.0 mm   | W255.0 mm x H185.0 mm<br>* Same Panel cut size display or Panel cutout adapter is not available. Please adjust the panel to replace. |
| Panel thickness                       |    | 1.6 mm to 5 mm  |  |
| External dimensions (including bezel) |    | W203.6 x H148.6 x D36 mm                                      | W268.5 x H198.5 x D67 mm   |
| Front bezel material                  |    | Aluminum  |  |
| Weight                                |    | 2.1 kg or less  | 3.7 kg or less   |
| Cooling method                        |    | Natural air circulation (fanless)<br><a href="#">→See 2.1</a> |  |
| Power supply                          |    | DC power supply : 24V   | DC power supply: 24V   |
| Power consumption                     | DC | When backlight is off: 27.0 W or less<br>Max: 41 W            | When backlight is off: 29 W<br>No power supplied to outside: 35 W<br>Max: 53 W   |
|                                       | AC | -   | -  |
| UPS for battery backup                |    | -   | No exclusive option<br>*please us third device recommend : APC SMT500J Smart-UPS500  |



#### 1.4 Comparison of interface specifications between SP-5400WA + SP-5B41 and PS6000 10"W +

##### Basic Box

| Interface Specifications  |           |  |  |
|---------------------------|-----------|--|--|
|                           |           | SP-5400WA + SP-5B41  | PS6000 10"W + Basic Box  |
| Serial (D-Sub 9-pin plug) | Main unit | COM1: RS-232C/422/485 (non-isolated)<br>COM2: RS-232C/422/485 (non-isolated)<br><i>(default: RS-485, enable by launcher)</i> | COM1: RS-232C/422/485 (non-isolated)<br>COM2: RS-232C/422/485 (non-isolated)<br><i>(default: RS-485, enable by BIOS) → See 2.2</i><br><br><i>*not support VCC(DC5V) output function of RS232C COM port</i>   |
|                           | Option    | -  | <b>Select any of the following</b><br>PFXYP6M2R23P2 : RS-232C isolated type x2<br>PFXYP6M2R42P2 : RS-422/485 isolated type x2 *<br><a href="#">→ See 3.3</a><br><br><i>* No compatibility in case of RS-422 using RTS+/- or CTS+/- . But even in other case, if application or connected device is controlling send/receiving by monitoring RTS or CTS, it could not be communicated. If able to change to software flow control, it is avoidable.</i> |
| Disk                      |           | CFast Card 32 GB x 1<br><br>SDXC Card x1   | <b>UP!</b> M.2 SSD 128GB as default, support up to 512GB x2*<br><br>SDXC Card x1<br><i>*2<sup>nd</sup> SSD could be use when no option interface or Wifi/Bluetooth interface module.</i><br><i>With other option module, only single SSD can be use → See 3.2</i>  |
| USB                       |           | USB Type-A x3 (2.0)<br>USB Type-mini-B x1 (2.0) *<br><i>*for transporting project file</i>                                   | <b>UP!</b> USB Type-A x2 (3.0)<br><b>UP!</b> USB Type-C x1 (3.2)<br><i>*Project transfer will be done by :<br/>Ethernet<br/>USB A transfer cable (PFXZC3CBUSA1)<br/>USB Memory<br/>SD Card</i>   |
| Ethernet                  |           | EEE802.3, 10BASE-T/100BASE-TX/1000BASE-T x2  | <b>UP!</b> IEEE1588, 10 BASE-T/ 100 BASE-TX/1000BASE-T, Wake on LAN (WOL) supported x2<br><br><i>* When status is S4 (hybrid shutdown), Wake on LAN cannot be used.</i>  |
| Sound                     |           | Line input/Line output/Microphone input  | Line output/Microphone input<br><i>(Option: PFXYP6CVUSAU)</i>  |
| Video output              |           | DVI-D Output Interface x 1   | <b>UP!</b> Display port x1 (Dual mode supported)<br><b>UP!</b> USB 3.0 (Type C Displayport Alternate mode) x 1<br><br><a href="#">→ See 2.3</a>  |
| Option Interface Slot     |           | -  | 1 slot<br><i>*For valid combination → See 3.2</i>  |

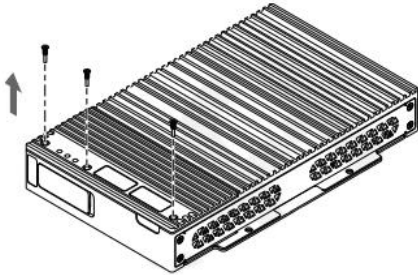
## Chapter 2 Hardware Compatibility

### 2.1 Cooling storage media

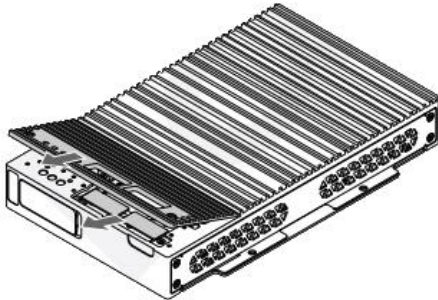
When installing the M.2 SSD for second storage, the optional M.2 cooling kit is required. (PFXYP6HSM2B)

|                  | Storage media            | M.2 cooling kit |
|------------------|--------------------------|-----------------|
| <b>Basic Box</b> | M.2 SSD                  | -               |
|                  | M.2 SSD (Second Storage) | ✓               |
|                  | CF Card                  | -               |

1. Remove 3 screws on the front side of the Box Module.

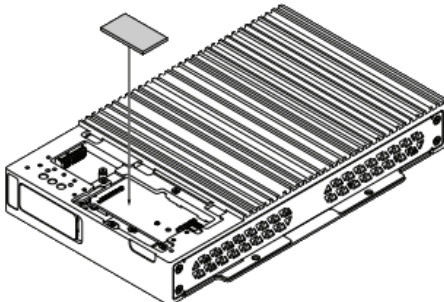


2. Remove the optional interface cover.

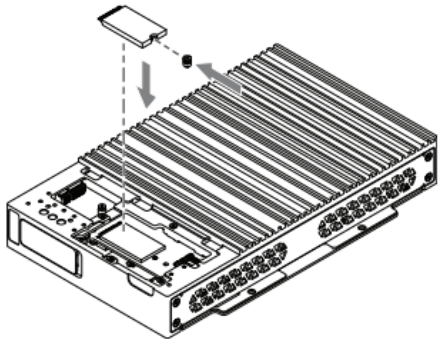


3. Peel off the protective film from the top surface and bottom surface of the heat sink pad.

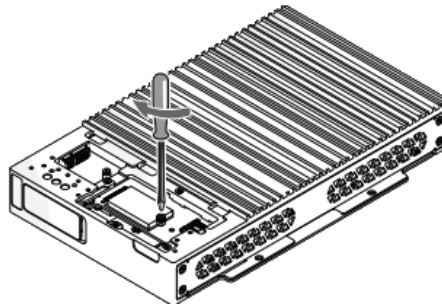
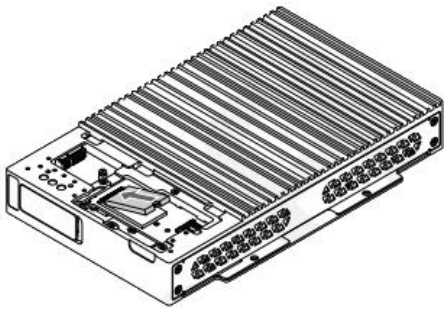
Place the heat sink pad on the board



4. Insert the M.2 screw in the M.2 SSD card.



5. Insert the M.2 SSD card in the slot. Secure the M.2 SSD card with the M.2 screw



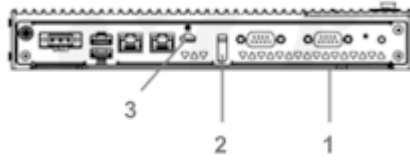
## 2.2 Settings of Serial Interfaces on Box Module

The following describes how to configure the serial interfaces on Box Module.

1. Turn on the product. While the boot screen is displayed, press either the **[DEL]** or **[ESC]** key. Enter the **password** (default password: Pw#12345). The BIOS screen will display.
2. Select **Advanced > Super IO Configuration > Serial Port 1 or Serial Port 2**
3. Select **Enabled** or **Disabled** in Serial Port (default: Enabled).
4. Select a **communication method** in Mode Selection (default: RS485).

### 2.3 Video output interface

PS6000 series supports 3 video output interfaces. Simultaneous output of all the interfaces is possible.



A: Display Module Interface

B: USB Type C

C: Display Port

| Setting Tool                     | Duplicate     | Extension     | Scaling           |
|----------------------------------|---------------|---------------|-------------------|
| Windows standard display setting | 2 screens max | 3 screens max | Scaling down only |
| Intel Graphics Command Center    | 3 screens max | 3 screens max | Scaling up/down   |

| Display Module Interface | USB Type C | Display Port | Details   |
|--------------------------|------------|--------------|---|
| Screen A                 | Screen B   | Screen C     | 3 – extension display   |
| A                        | B          | B            | 1-extension display (Display Module), 2-duplication display       |
| B                        | A          | B            | 1-extension display (USB Type C), 2-duplication display           |
| B                        | B          | A            | 1-extension display (DisplayPort), 2-duplication display          |
| A                        | A          | A            | 3-duplication display (Intel Graphics Command Center is required) |

### 2.4 USB Type C

The USB Type C of PS6000 series supports DP Alt Mode \*1.

PS6000 Basic Box Type C does not support USB-PD \*2

\*1 DP Alt Mode (DisplayPort Alternative mode) is USB Type C port which could connect to display by convert adapter or cable of VGA, DVU, HDMI, DP.

\*2 USB-PD (Power Delivery) is USB port which able to connect to display by 1 cable. By Sending video signal and power.

## Chapter 3 Optional items

### 3.1 Options compatibility

Most of SP5000 series option are usable for PS6000 Atom Basic Box.

(Display option's reference are for 15inch)

| SP5000 series                                   |               | PS6000 series |
|---|---------------|---------------|
| Product Name                                    | Model         | Compatibility |
| COM Port Conversion Adapter                     | PFXZC3ADCM1   | ✓             |
| Terminal Block Conversion Adapter               | PFXZC3ADR41   | ✓             |
| RS-232C Cable (5m)                              | PFXZC3CBR251  | ✓             |
| RS-422 Cable (5m)                               | PFXZC3CBR451  | ✓             |
| Mitsubishi PLC A-Series Connection Cable (5m)   | PFXZC3CBA51   | ✓             |
| 9-pin-to-25-pin RS-232C Conversion Cable (0.2m) | PFXZC3CBCVR21 | ✓             |
| Mitsubishi PLC FX-Series Connection Cable       | PFXZC3CBFX11  | ✓             |
| Mitsubishi PLC FX-Series Connection Cable       | PFXZC3CBFX51  | ✓             |
| Mitsubishi PLC Q-Series Link Cable(5m)          | PFXZC3CBQL51  | ✓             |
| Mitsubishi PLC Q-Series Connection Cable (5m)   | PFXZC3CBQ51   | ✓             |
| Omron PLC SYSMAC Link Cable(5m)                 | PFXZC3CBSYS51 | ✓             |
| Screen Protection Sheet                         | PFXZC3DS151   | ✓             |
| Connects a USB printer. (TYPE-B)                | PFXZC0CBUS1   | ✓             |
| RS-422 Terminal Block Conversion Adapter        | PFXZCBADTM1   | ✓             |
| RS-422 9/25-pin Conversion Cable (0.2m)         | PFXZCBCBCVR41 | ✓             |
| Multi-Link Cable (5m)                           | PFXZCBCBML1   | ✓             |
| SD Memory Card (4 GB)                           | PFXZCBSD4GC41 | ✓             |
| EZ Illuminated Switch                           | PFXZCCEUSG1   | ✓             |
| Front USB cover for NEMA/ATEX                   | PFXZCDCVUS1   | ✓             |
| SD Memory Card (1 GB) for System Card           | PFXZCDSD1GC61 | ✓             |
| Auxiliary Output / Speaker Output Interface     | PFXZCDCNAUX1  | - *1          |
| UV Protection Sheet                             | PFXZCFUV151   | -             |
| Environment Cover                               | PFXZCDOP151   | -             |
| Anti-Glare Sheet                                | PFXZCHAG152   | - *2          |
| Replacement Battery                             | PFXZCBBT1     | -             |
| Multi Display Adapter                           | PFXZCDAEXR1   | - *3          |

\*1 Audio option with 3.5 Audio interface available (PFXYP6CVUSAU)

\*2 New Anti-Glare Sheet available (PFXZCAG7W1)

\*3 PS6000 can connect with 3 displays. Detail on 2.4 Video output interface

### 3.2 Options Slot table

Option Slot (except WiFi/Bluetooth) and 2nd M.2 SSD use same interface, so 2nd SSD could be only use with WiFi/Bluetooth option or no option module.

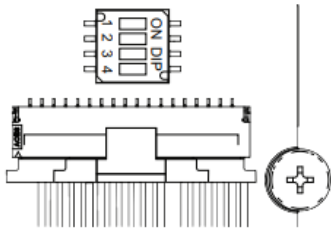
Option slot fit only one option module frame, so option module can be use only one at a time.

| Option Slot      | 2 <sup>nd</sup> M.2 SSD |
|------------------|-------------------------|
| RS-232C x2       |                         |
| RS422/485 x2     |                         |
| Ethernet         |                         |
| 4G Cellular      |                         |
| WiFi/Bluetooth   | ✓                       |
| No Option Module | ✓                       |

### 3.3 Option Interface of RS-422/485 isolated x2

This Option Interface has dip switch. Termination resistor setting is necessary. Set up by referring to the following table. Switching RS-485 and RS-422 is also configured with the dip switch.

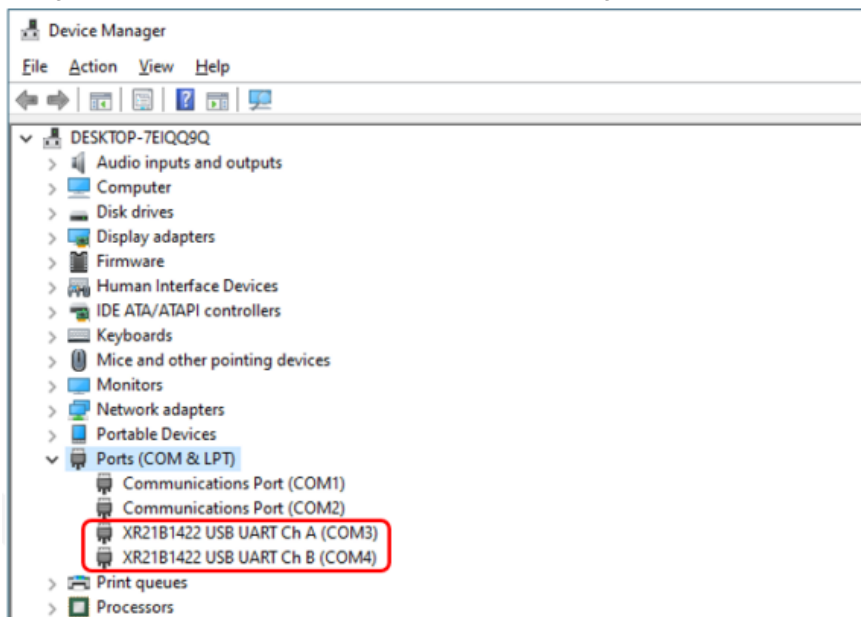
| DIP SW | OFF               | ON                    | Description            |
|--------|-------------------|-----------------------|------------------------|
| 1      | Normal            | Termination (120 ohm) | for COM3. Default: OFF |
| 2      | Normal            | Termination (120 ohm) | for COM4. Default: OFF |
| 3      | RS-485            | RS-422                | Default: OFF           |
| 4      | Unused (disabled) |                       | Default: OFF           |



Along with DIP switch settings, both ports must be set in the Windows® Device Manager too.

**NOTE:** Auto direction control is automatically enabled with this setting.

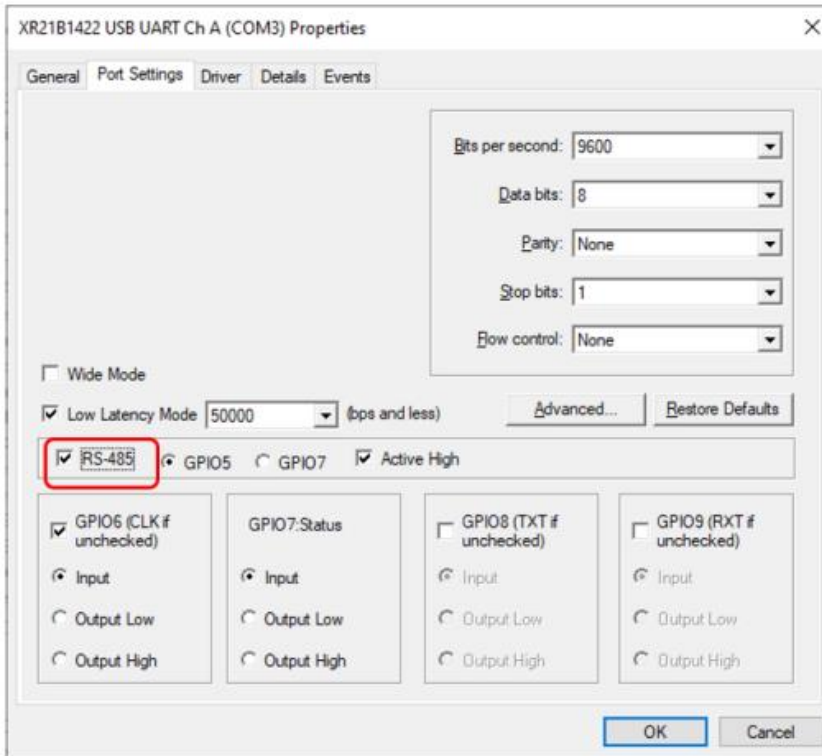
1. Open the **Windows® Device Manager**.
2. Open **Ports**
3. Right-click the port to which RS-485 or RS-422 is assigned



4. Select **Properties** and open the **Port Settings** tab.
5. Select the **RS-485** check box.

**NOTE:**

- Select the RS-485 check box even for RS-422.
- Do not change any settings other than RS-485.



### 3.4 Option Interface of RS-422/485 isolated PIN assign

Option Interface of RS-422/485 isolated PIN assign is different with PS6000 Basic Box COM port and SP5000 Open Box COM port.

| Pin# | PS6000 Basic Box COM port | SP5000 Open Box COM port | PS6000 Basic Box RS422/485 x2 isolation option |
|------|---------------------------|--------------------------|--|
| 1    | RDA                       | RDA                      | TxD-/Data-                                     |
| 2    | RDB                       | RDB                      | TxD+/Data+                                     |
| 3    | SDA                       | SDA                      | RxD+   |
| 4    | ERA                       | ERA                      | RxD-   |
| 5    | SG                        | SG                       | SG   |
| 6    | CSB                       | CSB                      | NC   |
| 7    | SDB                       | SDB                      | NC   |
| 8    | CSA                       | CSA                      | NC   |
| 9    | ERB                       | ERB                      | NC   |

## Chapter 4 Compatibility of software

### 4.1 Supported OS and language

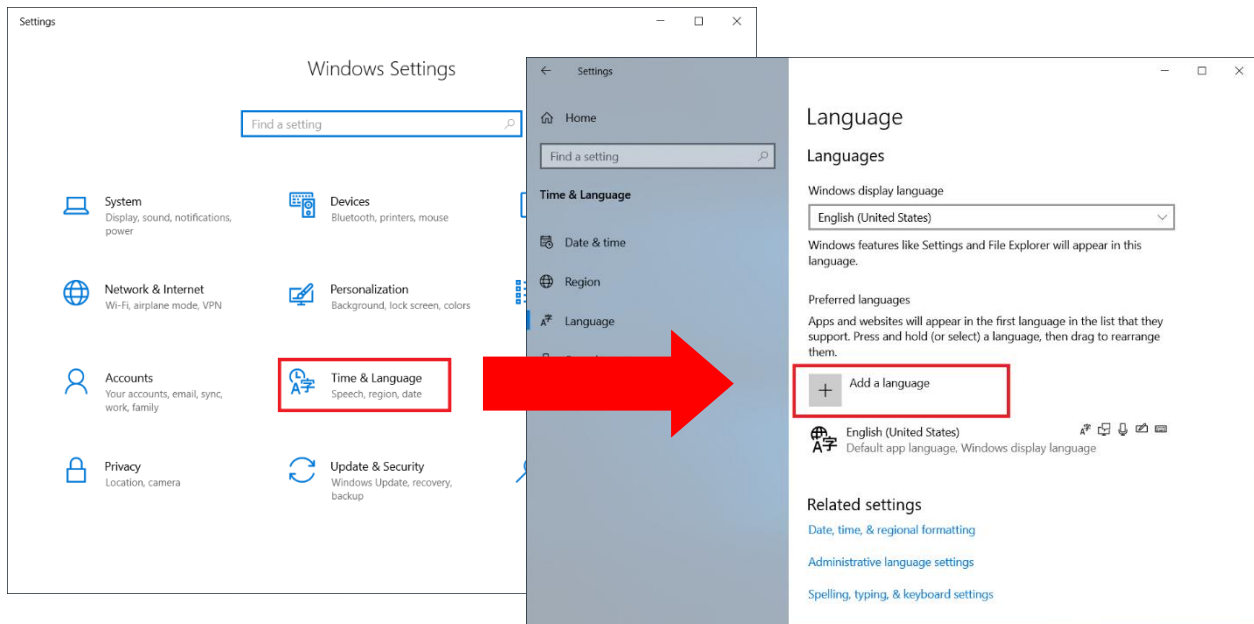
The supported OS and language differ between SP5000 series and PS6000 series.

| OS   | SP5000 series        | PS6000 series |
|--|----------------------|---------------|
| Windows Embedded Standard 7 Service Pack 1   | Yes (PFXSP5B41)      | No            |
| Windows 10 IoT Enterprise 2019 LTSC          | Yes (PFXSP5B411/412) | No            |
| Windows 10 IoT Enterprise 2021 LTSC (64 bit) | No                   | Yes           |

| Language             | SP5000 series   | PS6000 series                                    |
|----------------------|---|--|
|                      | Windows Embedded Standard 7 Service Pack 1<br>Win 10 IoT Enterprise 2019 LTSC | Windows® 10 IoT Enterprise 2021 LTSC (64 bit) *2 |
| Chinese(Simplified)  | Yes/No *1   | Yes  |
| Chinese(Traditional) | Yes/No *1   | Yes  |
| English              | Yes   | Yes  |
| French               | Yes   | Yes  |
| German               | Yes   | Yes  |
| Italian              | Yes   | Yes  |
| Japanese             | Yes   | Yes  |
| Portuguese           | Yes/No *1   | Yes  |
| Russian              | Yes/No *1   | Yes  |
| Spanish              | Yes   | Yes  |
| Swedish              | Yes/No *1   | Yes  |

\*1: It's necessary to add and install a language from the language pack.

\*2: Language that is not shown in the table can be downloaded from the Microsoft web site using the standard language feature of Windows.





## 4.2 OS login password

For PS6000 series, it's necessary to set a login password at the first boot of the product to reduce the risk of intrusion and infection of malicious software and unauthorized access. Unlike SP5000 series, you cannot configure settings without a password. The conditions of login password are as follows;

The number of characters: 8 or more characters with 3 or more types included from the usable characters as shown below. The character strings used for the account name cannot be used.

Types of usable characters:

- Upper-case characters of European languages (A to Z, diacritical mark, Greek alphabet, Cyrillic alphabet)
- Lower-case characters of European languages (a to z, hash sign, Greek alphabet, Cyrillic alphabet)
- Numbers (0 to 9)
- Characters (special characters) except alphanumeric characters: (~!@#\$\$%^&\* \_+=`|¥(){}[]:;'"<>.,?/) In this policy setting, the currency sign like Euro or British Pound is not counted as special characters
- Unicode characters that are neither upper-case nor lower-case characters though they are categorized in the order of alphabet. Unicode characters of Asian languages are included in this.

## 4.3 Recovery media

A recovery USB for OS recovery is attached to PS5000 series, but it's an optional item for PS6000 series. Please purchase a recovery USB for PS6000 Basic Box (PFXYP6RUSW10B) for OS recovery.

Using the recovery tool \*1 on our web site makes recovery possible with the backup file created in advance.

\*1: [https://www.proface.com/en/download/ps6000/application/restore\\_and\\_backup](https://www.proface.com/en/download/ps6000/application/restore_and_backup)

## 4.4 Supported software and utilities

The software and utilities supported by PS6000 series are as follows;

| Software                           | Version                |
|------------------------------------|------------------------|
| GP-Pro EX (WinGP)                  | Ver. 4.09.500 or later |
| Pro-Server EX                      | Ver. 1.37.200 or later |
| Pro-face Remote HMI (iOS/Android)  | Ver. 1.50 or later *1  |
| Pro-face Remote HMI Server         | Ver. 1.11.006 or later |
| Pro-face Remote HMI Client for Win | Ver. 1.42 or later     |
| BLUE                               | 3.4 Service Pack 1     |
| BLUE Open Studio                   | 2023                   |
| Pro-face Connect (Link Manager)    | 11.0                   |
| Pro-face Connect (Site Manager)    | 11.0                   |

\*1: For earlier than Ver.1.50, PS6000 series (WinGP) is not recognized as a connection destination server.

| Utility        | Descriptions  |
|----------------|---|
| Buzzer         | Enable or disable the buzzer sound at the time of touch panel operation.  |
| Brightness     | Sets the backlight brightness.  |
| Calibration    | Correct touch positions.  |
| Front USB      | Permit or do not permit use of Front USB on Display Module.   |
| Write Filter   | Enable or disable the Write Filter feature.   |
| HORM           | Enable or disable the HORM feature.   |
| Shell          | Hide the Windows® desktop. Using this custom shell feature allows you to restrain the Windows® features such as Control Panel.  |
| Power          | Used to operate power supply of this product in a state of custom shell.  |
| System         | Show the product's firmware, BIOS version, and OS version.  |
| Touch Mode     | Select from 3 modes (Normal, Water-detected, and Gloves) according to a use environment.  |
| System Monitor | Monitor a state of the main unit, for example temperature or voltage, using a dashboard created with Node-RED.  |
| Window Locker  | Fix a window display position at the time of application boot when an external display is used.   |
| Cellular       | You can use the optional interface unit and a SIM card to data communication using 3G, 4G, and LTE radio waves. Double-click this icon will show the windows cellular option. |

#### 4.5 Supported features in Launcher compatibility

The difference of supported System features in Launcher is as shown below.

|                                 | PS6000<br>Atom Basic Box | SP5B411/412<br>(Windows 10) | SP5B41<br>(WES7) |
|---------------------------------|--------------------------|-----------------------------|------------------|
| Launcher                        | Supported                | Supported                   | Supported        |
| Buzzer                          | Supported                | Not supported               | Not supported    |
| Brightness                      | Supported                | Supported                   | Supported        |
| Calibration                     | Supported                | Supported                   | Supported        |
| Front USB                       | Supported                | Supported                   | Supported        |
| Write Filter                    | Supported                | Supported                   | Supported        |
| HORM                            | Supported                | Supported                   | Supported        |
| Shell                           | Supported                | Supported                   | Supported        |
| Power                           | Supported                | Supported                   | Supported        |
| System                          | Supported                | Supported                   | Supported        |
| Touch Mode                      | Supported                | Not supported               | Not supported    |
| System Monitor                  | Supported                | Not supported               | Not supported    |
| Window Locker                   | Supported                | Not supported               | Not supported    |
| Cellular                        | Supported                | Not supported               | Not supported    |
| HMI Icon                        | Not supported            | Supported                   | Supported        |
| Task Changer /<br>Task Switcher | Not supported            | Supported                   | Supported        |
| Eject                           | Not supported            | Not supported               | Supported        |
| UART                            | Not supported            | Supported                   | Supported        |

\* Launcher similar with the SP5000 Open Box's launcher will be release later.

#### 4.6 Details of touch operation for every series

| Series                    | Touch Type     | Driver           | Touch Detection | Behavior when touch and hold   | Supports two-point touch |
|---------------------------|----------------|------------------|-----------------|--------------------------------|--------------------------|
| PS5000                    | Resistive Film | PenMount Driver  | Pen Up          | Right Click (Default)          | -                        |
|                           | Capacitive     |                  |                 |                                | ✓                        |
| PS5000 + DA *1            | Resistive Film |                  |                 | Depend on the Host PC setting. | -                        |
|                           | Capacitive     |                  |                 |                                | ✓                        |
| FP5000<br>SP5000 + MDA *2 | Resistive Film | Windows Standard | Pen Down        | Depend on the Host PC setting. | ✓                        |
| PS6000                    | Resistive Film |                  |                 | Right Click (Default)          | ✓                        |
|                           | Capacitive     |                  |                 |                                |                          |
| FP6000                    | Resistive Film |                  |                 | Depend on the Host PC setting. |                          |
|                           | Capacitive     |                  |                 |                                |                          |

\*1: Display Adapter

\*2: Multi Display Adapter

Mouse Emulation Software (DMT-DD) is also available > <https://www.proface.com/en/node/50375>

Note when using on PS6000 Series

- The multi-touch function does not operate.
- It is not possible to use Calibration on the launcher.
- DMT-DD does not support the extend mode in multi monitor. Please use on single monitor or set to the duplicate mode.

- if you want to play the Touch Sound, please make the following settings

Play Type : Hardware

Sound Timing : At touch down

Beep setting

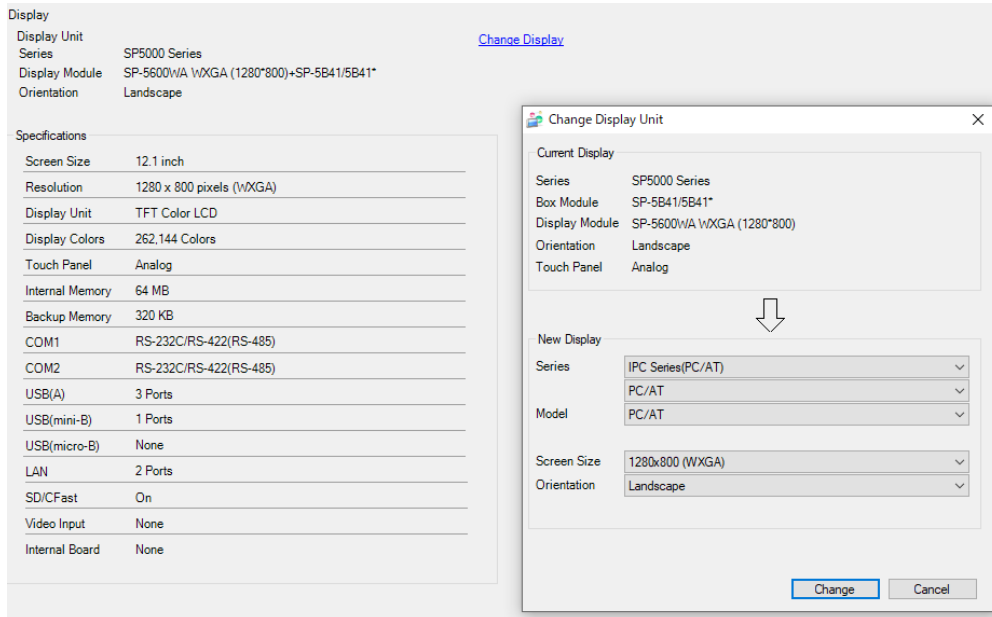
Frequency [Hz] : 2400

Sound Duration [ms] : 50

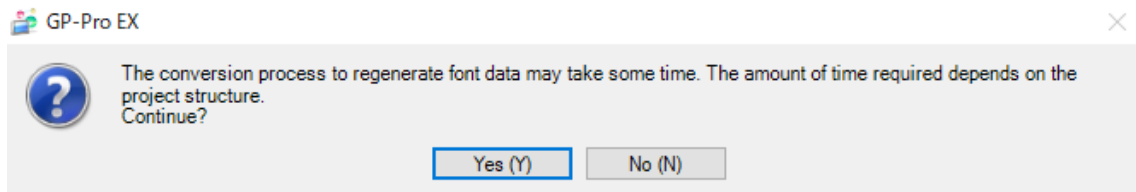
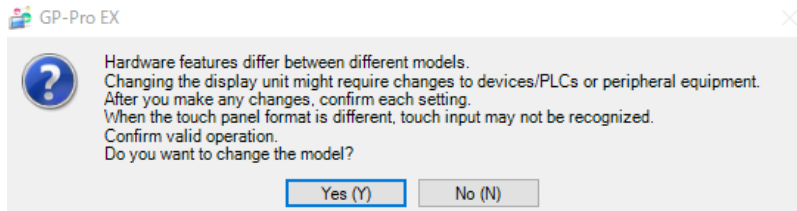
#### 4.7 GP-Pro EX project file

Please follow below step in GP-Pro EX, to use SP5000 project file on PS6000.

1. Open the SP5000 project file.
2. Click **Project > System Settings > Display**.
3. Click **Change Display**.
4. Select as below for New Display fields.
  - **Series:** IPC Series (PC/AT) – PC/AT
  - **Model:** PC/AT
  - **Screen Size:** Select display size of PS6000 \*1 e.g. 12.1" inch wide = 1280x800(WXGA)
  - **Orientation:** Landscape or Portrait \*Usually same with current Display
5. Click **Change**.



6. Two pop-ups will be shown in a row. Read the mention and click **Yes**.



\*When [Historical Data Retentive Settings] error has been shown, please follow **logging the data other than SRAM** →[4.8](#)

| Error Check |              |                             |   |
|-------------|--------------|-----------------------------|---|
| Level       | Error Number | Screen-Location             | Summary   |
| Error       | 1085         | Display Unit - IPC Settings | Unable to use [SRAM] in [Historical Data Retentive Settings] with this model. Please change it. |

\*1 if resolution is different from current display. Convert Resolution check box will be shown. When you want to convert to new resolution, put the check. After changing the resolution, ensure that the part and text sizes and positions are appropriate.

## 4.8 WinGP – Historical Data Retentive Settings

### 4.8.1 Logging to external device

When creating new project selecting IPC Series(PC/AT) – PC/AT, by enabling the logging, automatically logging data will be save to external drive.

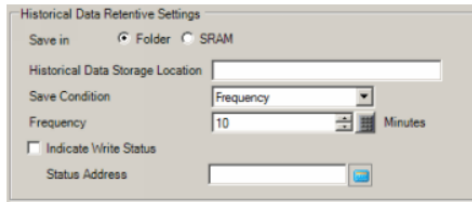
Minimum Historical Data Retentive Saving cycle will 1min. Saving enable size is bigger than SRAM.

### 4.8.2 logging the data other than SRAM

To setup D Drive for logging data, please follow below step in GP-Pro EX.

Select **Project > System settings > Display Unit.**

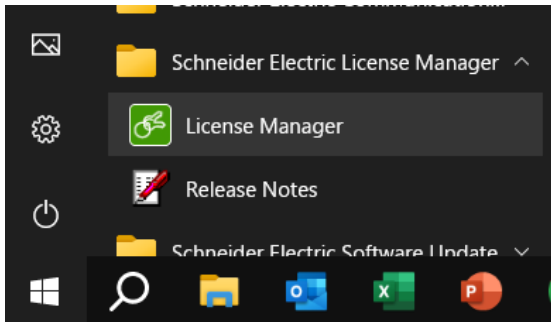
Select **WinGP** tab. Check the **Folder** and assign the **location** in Historical Data Storage Location



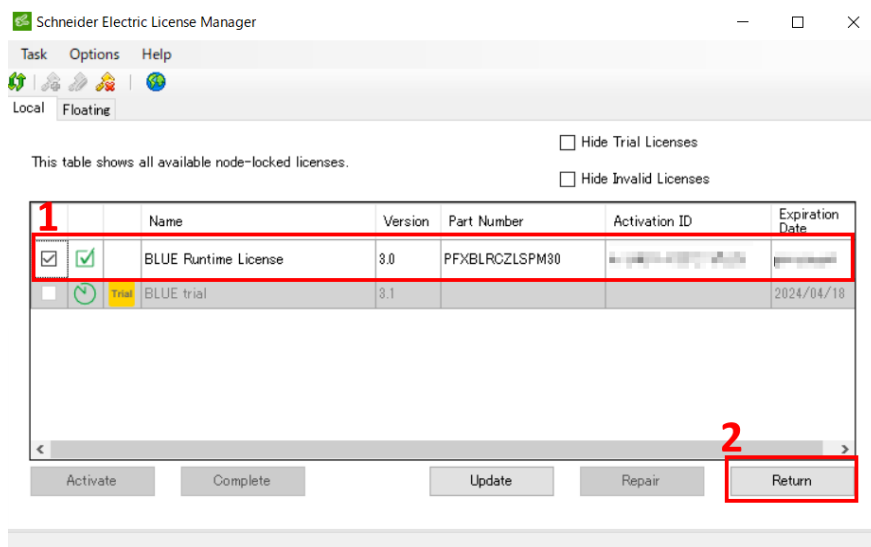
## 4.9 BLUE Runtime License Manager

Please follow below step to transfer the RT license activation to PS6000 from SP5000 Open Box.

1. On SP5000 Open Box. Click Window Menu. Select Schneider Electric License Manager folder. Run License Manager.

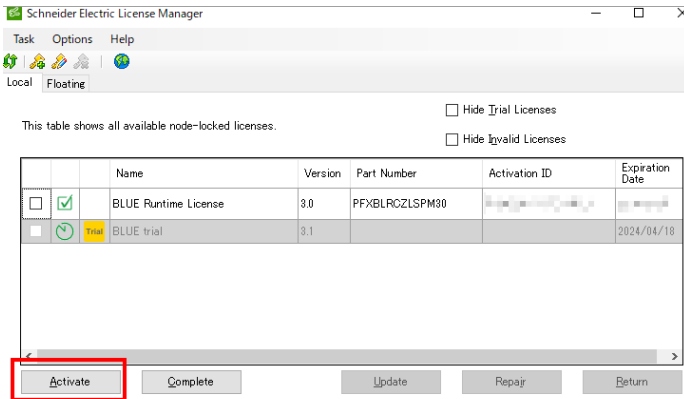


2. Click check box on the left of BLUE Runtime License (1). Don't forget to take a memo of Activation ID. Click Return (2).

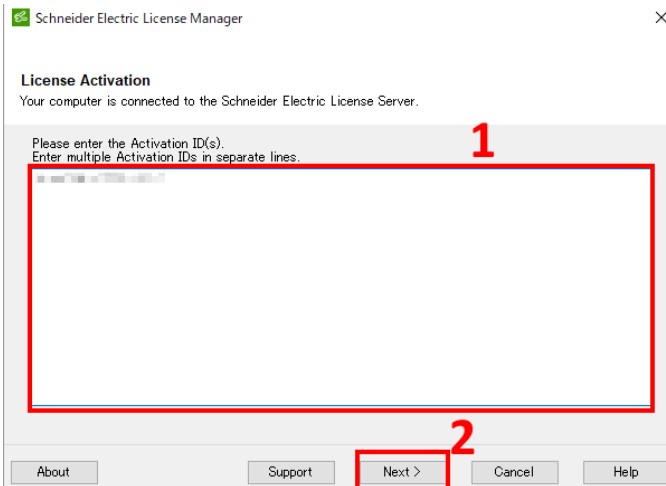


3. Pop up window explaining Returning License will be shown. Click Yes.

- Pop up window explaining succeed of remove license will be shown. Click Finish.
- On PS6000, Click Window Menu. Select Schneider Electric License Manager folder. Run License Manager.
- Click Activate button.



- Enter Activation ID in step2 to text box (1)  
Click Next > (2)



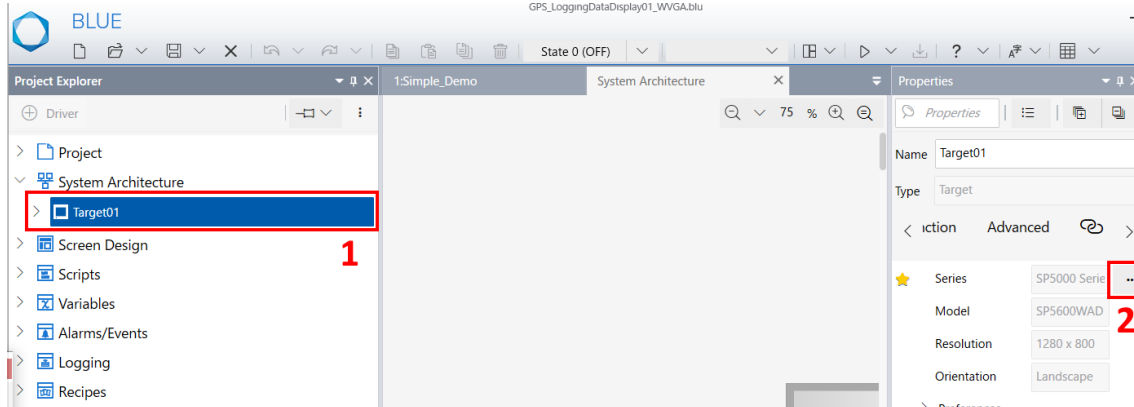
- Pop up window explaining succeed of activating license will be shown. Click Finish.

\*BLUE License has restriction of the number of deactivating and reactivating.  
Please contact support center for further detail.

#### 4.10 BLUE Project file

Please follow below step in BLUE, to use SP5000 project file on PS6000.

1. Open the SP5000 project file.
2. Click **System Architecture > Target01 (1) \*1**.
3. Click **3 dots on the Series (2)**.



4. Select as below for New Display fields.
  - **Type:** IPC or PC/AT
  - **Resolution:** Select display size of PS6000 (e.g. 12.1" inch wide = 1280x800(WXGA))
  - **Orientation:** Landscape or Portrait \*Usually same with current Display
5. Click **OK**.

#### 4.11 BLUE historical data location

When select IPC or PC/AT, selection for logging data, for Logging and Alarm. will be Backup Memory or SD Card\*1 or USB Storage\*1.

Below is the location of logging data for each selection.

Please beware to re-assign the location when you change the project file to IPC or PC/AT from SP5000.



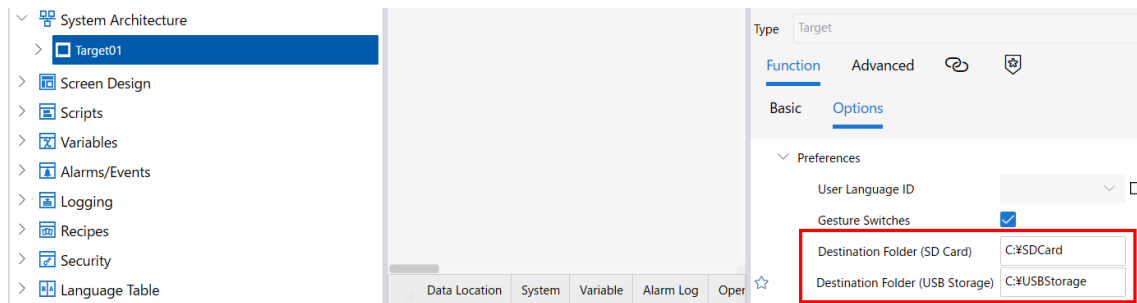
#### Backup Memory

Save to Folder will be automatically created in the C Drive.

#### SD Card

#### USB Storage

Location can assign in System Architecture > Target01 > Function > Options > Destination Folder.



\*1 simply selecting [SD Card] or [USB Storage] will NOT store the alarm history in the SD card or USB storage inserted in the display unit. To save the alarm history in the SD card or USB storage, specify the destination folder in the [Destination Folder (SD Card)] or [Destination Folder (USB Storage)]

#### 4.12 Software notice when Writer Filter is enabled

When Write Filter(UWF) is enabled, data will be reset when restarting the product.

Software data such as variable data, will be also reset. If you need to avoid this, please create symbolic link of software folder to second device or external device

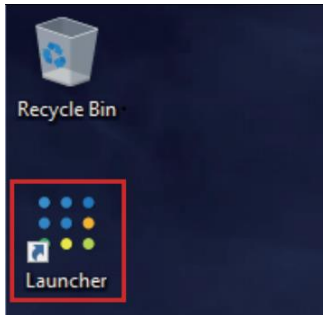
#### Default software folder :

**BLUE** : "C:\ProgramData\Pro-face\BLUE Runtime"

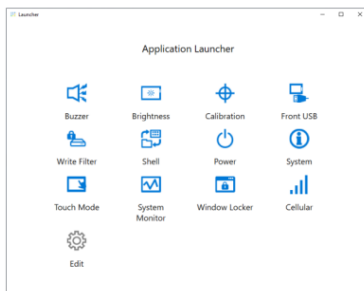
**GP-Pro EX** : "C:\ProgramData\Pro-face\WinGP"

#### Example of creating BLUE symbolic link folder C:\ProgramData\Pro-face\BLUE Runtime

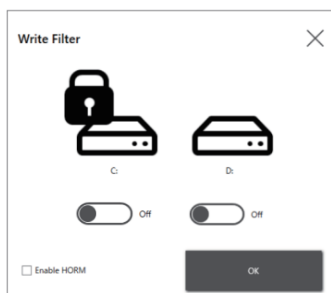
1. Disable Unified Write Filter
  - a. Start Launcher from the shortcut icon on the Desktop



- b. Select Write Filter from Launcher top screen  
If Write Filter is not displayed on the Launcher top screen, click on Edit to display Write Filter



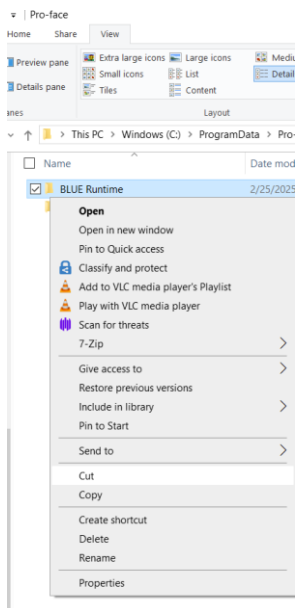
- c. Disable (Off) Write Filter on C:



Toggle the switch to Off

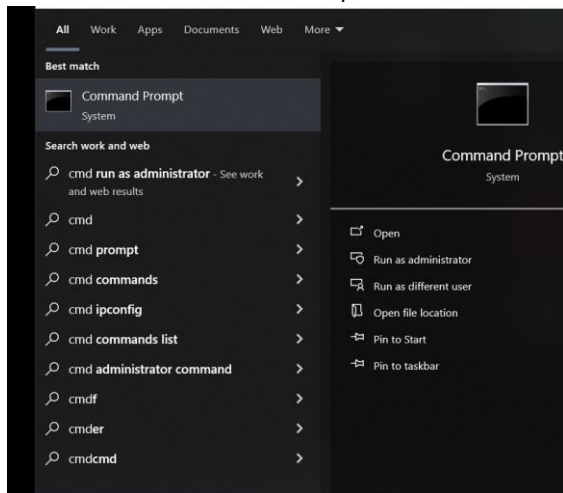
2. Create a new folder D:\PS6000.
3. Cut and paste BLUE Runtime folder from the C:\ProgramData\Pro-face to D:\PS6000 folder.  
Ensure to Cut and Paste, and **not** to Copy and Paste  
Note: C:\ProgramData is a hidden folder by default in Windows. Please enable Hidden items from View menu on Windows Explorer Window.





Folder to Cut from C: drive.

4. Click Windows Start button > Open Command Prompt as Administrator



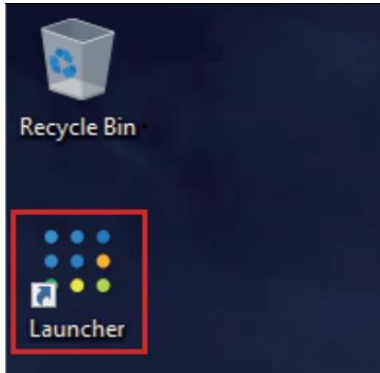
4. Input < `mklink /D "C:\ProgramData\Pro-face\BLUE Runtime" "D:\PS6000\BLUE Runtime"` > and press Enter key.

After successful creation of the symbolic link, there will be following message:

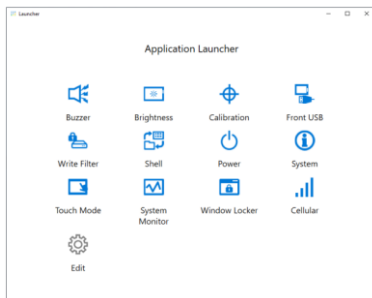
“symbolic link created for C:\ProgramData\Pro-face\BLUE Runtime <<====>> D:\PS6000\BLUE Runtime”

```
C:\>mklink /D "C:/ProgramData/Pro-face/BLUE Runtime" "D:/PS6000/BLUE Runtime"
symbolic link created for C:/ProgramData/Pro-face/BLUE Runtime <<====>> D:/PS6000/BLUE Runtime
C:\>
```

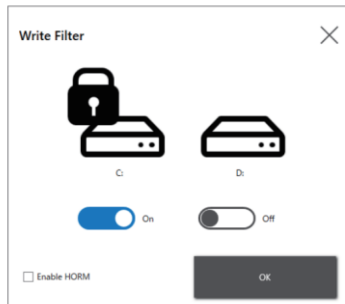
5. Enable Write Filter for C: drive
  - a. Start Launcher from the shortcut icon on the Desktop



- b. Select Write Filter from Launcher top screen  
If Write Filter is not displayed on the Launcher top screen, click on Edit to display Write Filter



- c. Enable (On) Write Filter on C:



Toggle the switch to On.

Only Alarm, logging and historical data needs to avoid the reset, changing the save folder to external device will resolve this concern. GP-Pro EX →[See 4.8](#) BLUE →[See 4.11](#)

However, even in this case, PS6000 needs to be shut down correctly from Windows. If there is a shut down from other cases (e.g. power supply cut-off to PS6000), data could be damaged and could cause issues in saving.

Using the symbolic link to protect variable data from resetting require two separate storage drives. (Symbolic link will not work properly for virtually partitioned drives)