[1] # TYPE EXAMINATION CERTIFICATE

[2] **Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**

[3] Type Examination Certificate Number: **DEMKO 16 ATEX 1673X Rev. 2**

[4] Product: **PS5000 Box iPC Modular, Box iPC and Display Panel, Models PFXP Series**

[5] Manufacturer: **Schneider Electric Japan Holdings Ltd.**

[6] Address: **4-4-9 Kitahama, Chuo-Ku, Osaka-shi, Osaka 541-0041 Japan**

[7] This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] UL International Demko A/S certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential report no. **US/UL/ExTR16.0049/02.**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013
EN 60079-11:2012
EN 60079-15:2010
EN 60079-31:2014

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign "**X**" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

[11] This Type examination certificate relates only to the design of the specified product, and not to specific items of product subsequently manufactured.

[12] The marking of the product shall include the following:

II 3 G Ex nA IIC T4 Gc

II 3 G Ex ic nA IIC T4 Gc

II 3 D Ex tc IIIC T135°C Dc

Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval

Date of issue: 2016-03-21
Re-issued: 2021-06-28

Certification Body

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Schedule
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[15] Description of Product:
PS5000 Box iPC Modular, Box iPC and Display Panel Models PFXP Series are embedded application ready platform for industrial application:

Product type:	Model Series:	Protection method	Description:
Box iPC Modular	PFXPx27xxD (See Nomenclature for "x")	ic, nA	PFXPx27xxD are industrial touch iPC which assembled with following Box PC, PFXPL2B, PFXPU2B or PFXPP2B and Display, PFXPPD5700TA. The device shall be mounted with a suitable enclosure with a minimum ingress protection rating of at least IP54 in accordance with EN 60079-15 for category 3G Zone 2 or IP65 in accordance with EN 60079-31 for category 3D Zone 22.
		tc	
	PFXPx27xxA (See Nomenclature for "x")	tc	PFXPx27xxA are industrial touch iPC which assembled with following Box PC, PFXPL2B, PFXPU2B or PFXPP2B, Display, PFXPPD5700TA and AC power supply, PFXZPBPUAC2. The device shall be mounted with a suitable enclosure with a minimum ingress protection rating of at least IP65 in accordance with EN 60079-31 for category 3D Zone 22.
	PFXPx2JxxD (See Nomenclature for "x")	nA	PFXPx2JxxD are industrial touch iPC which assembled with following Box PC, PFXPL2B, PFXPU2B or PFXPP2B and Display, PFXPPD5700WP. The device shall be mounted with a suitable enclosure with a minimum ingress protection rating of at least IP54 in accordance with EN 60079-15 for category 3G Zone 2 or IP65 in accordance with EN 60079-31 for category 3D Zone 22.
		tc	
	PFXPx2JxxA (See Nomenclature for "x")	tc	PFXPX2JxxA are industrial touch iPC which assembled with following Box PC, PFXPL2B, PFXPU2B or PFXPP2B, Display, PFXPPD5700WP and AC power supply, PFXZPBPUAC2. The device shall be mounted with a suitable enclosure with a minimum ingress protection rating of at least IP65 in accordance with EN 60079-31 for category 3D Zone 22.
Box iPC	PFXPL2B PFXPU2B PFXPP2B	nA	PFXPL2B, PFXPU2B and PFXPP2B are open type Box iPCs. The devices shall be installed in a suitable enclosure with a minimum ingress protection rating of at least IP54 in accordance with EN 60079-15.
Display Panel	PFXPPD5700TA	ic, nA	PFXPPD5700TA is 4:3 15", resistance type touch panel which were evaluated and suitable for IP65 at front touch screens. The device shall be mounted in a suitable enclosure with a minimum ingress protection rating at least IP54 in accordance with EN 60079-15 for category 3G Zone 2 or IP65 in accordance with EN 60079-31 for category 3D Zone 22.
		tc	
	PFXPPD5700WP	nA	PFXPPD5700WP is 15.6" Width, capacitance type touch panel which were evaluated and suitable for IP65 at front touch screens. The device shall be mounted in a suitable enclosure with a minimum ingress protection rating of at least IP54 in accordance with EN 60079-15 for category 3G Zone 2 or IP65 in accordance with EN 60079-31 for category 3D Zone 22.
		tc	

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Optional Accessory:

Accessory type:	Model:	Description:
AC Power Supply	PFXZPBPUAC2	[Only used with Industrial Touch iPC models which are “tc” protection technique.] Input: 100-240 V ac, 50-60Hz, 1.8-0.9 A or 1.6-0.9 A max. Output: 24 V dc, 5.5 A max.
Fan Module	PFXZPBIUFAN2	[Only used with industrial Touch iPC models and Box iPC models] Rated 12 V dc, 684 mA

Nomenclature: (Box iPC modular and Box iPC

PFXP	P	2	7	E	C	D	4	Y	N	ZZZZZ
I	II		III	IV	V	VI	VII	VIII	IX	X

I. Prefix:
PFXP: Model type

II. CPU Version:
L: ATOM (Optimized) (For Box PC Type E and Type F enclosure only)
U: Celeron 2980U (Universal) (For Box PC Type A and Type B enclosure only)
P: Haswell i7-4650U (Performance) (For Box PC Type A and Type B enclosure only)

III. Display module:
B: Represent no display panel (Box PC only)
7: Represent 4:3 15” display panel, PFXPPD5700TA
J: Represent 15.6”W display panel, PFXPPD5700WP

IV. Combination of Box Type and modular:
A, C, D, J or U: Box PC Type A enclosure, 4 slots
E, K, L, P, Q, R, S, T, V, W, X, Y or Z: Box PC Type B enclosure, 2 slots
1 or 3: Box PC Type F enclosure, 0 slot
2 or 4: Box PC Type E enclosure, 1 slot

V Expansion slot configuration:
B, C or 7: Base unit
F or W: Expansion USB board and Fans Module

VI. Power Supply:
D: DC power source.
A: AC power source

VII. Memory:
4: 4GB
8: 8GB
A: 16GB

VIII. Operating system
Y can be any character to represent OS type.

IX. Storage type:
N: None
A: CFast
J or K: HDD
L, M or P: SSD
1, 2 or 3: M.2

X. Combination of second storage type, Interface options and Software bundle:
Z can be any character to represent combination.

The optical radiation output of the product with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is covered in this certificate based on Exception 1 to the scope of EN 60079-28:2015.

Temperature range:
The relation between ambient temperature and the assigned temperature class is as follows:

Ambient temperature range	**Temperature class**
0 °C ≤ Ta ≤ +55 °C	T4

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Electrical data:

Model Series:	Model Name Suffix:	Protection Technical:	Electrical Rating:
Box iPC Modular:			
PFXPU27xx PFXPP27xx (See Nomenclature for "x")	Follow with "D"	ic, nA tc	Input: 24Vdc, 4.2A max.
	Follow with "A" (equipped with AC power supply, PFXZPBPUAC2)	tc	Input: 100-240Vac, 50-60Hz, 1.8-0.9A max.
PFXPU2Jxx PFXPP2Jxx (See Nomenclature for "x")	Follow with "D"	nA tc	Input: 24 Vdc, 4.2 A max.
	Follow with "A" (equipped with AC power supply, PFXZPBPUAC2)	tc	Input: 100-240Vac, 50-60Hz, 1.8-0.9A max.
PFXPL27xx (See Nomenclature for "x")	Follow with "D"	ic, nA tc	Input 12 Vdc, 6 A max. or 24 Vdc, 2.62 A max.
	Follow with "A" (equipped with AC power supply, PFXZPBPUAC2)	tc	Input: 100-240Vac, 50-60Hz, 1.6-0.9A max.
PFXPL2Jxx (See Nomenclature for "x")	Follow with "D"	nA tc	Input 12 Vdc, 6 A max. or 24 Vdc, 2.62 A max.
	Follow with "A" (equipped with AC power supply, PFXZPBPUAC2)	tc	Input: 100-240Vac, 50-60Hz, 1.6-0.9A max.
Box iPC:			
PFXPL2B PFXPU2B	-	nA	Input: 24Vdc, 4.2A max.
PFXPP2B	-	nA	Input 12 Vdc, 6 A max. or 24 Vdc, 2.62 A max.
Display Panel:			
PFXPPD5700TA	-	ic, nA tc	Input 12 Vdc
PFXPPD5700WP	-	nA	Input 12 Vdc

Optional Accessory:

Accessory type:	Model:	Electrical Rating:
AC Power Supply	PFXZPBPUAC2	[Only used with industrial touch iPC models which are "tc" protection technique.] Input: 100-240 V ac, 50-60Hz, 1.8-0.9 A or 1.6-0.9 A max. Output: 24 V dc, 5.5 A max.
Fan Module	PFXZPBIUFAN2	[Only used with industrial Touch iPC models and Box PC models] Rated 12 V dc, 684 mA

Routine tests:
No routine tests are necessary.

[16] Descriptive Documents
The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this Type Examination Certificate.

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[17] Special Conditions of Use:

For Box iPC Modular Models PFXPx27xxD, PFXPx2JxxD and Display Panel Models PFXPPD5700TA and PFXPPD5700WP:

- All front surfaces have been evaluated to the enclosure requirements for Ingress Protection to IP65 in accordance with EN 60079-15 and EN 60079-31.
- The equipment shall only be used in an area of not more than pollution degree 2 as defined in EN 60664-1.
- Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage at the supply terminals to the equipment.
- The equipment shall be mounted in an enclosure that provides a degree of protection not less than IP54 in accordance with EN 60079-15 for category 3G Zone 2 or IP65 in accordance with EN 60079-31 for category 3D Zone 22.
- Do not expose to direct sunlight or UV light source.
- Equipment must be installed in a low risk of mechanical danger environment.
- The display panels shall be installed and supplied by Box iPC, PFXPx2B model series.(For Display Panel only)

For Box iPC Modular Models PFXPx27xxA and PFXPx27xxA:

- All front surfaces have been evaluated to the enclosure requirements for Ingress Protection to IP65 in accordance with EN 60079-31.
- The equipment shall be mounted in an enclosure that provides a degree of protection not less than IP65 in accordance with EN 60079-31 for category 3D Zone 22.
- Do not expose to direct sunlight or UV light source.
- Equipment must be installed in a low risk of mechanical danger environment.

For Box iPC Models PFXPL2B, PFXPU2B and PFXPP2B:

- The equipment shall be installed in an enclosure that provides a degree of protection not less than IP54 in accordance with EN 60079-15.
- The equipment shall only be used in an area of not more than pollution degree 2 as defined in EN 60664-1.
- Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage at the supply terminals to the equipment.

[18] Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

All front surface of models PFXPx27xxD, PFXPx2JxxD, PFXPx27xxA, PFXPx2JxxA, PFXPPD5700TA and PFXPPD5700WP have in addition passed the tests for Ingress Protection to IP 65 in accordance with EN60529:1991+A1:2000+A2:2013.

The trademark Pro-face by Schneider Electric or Pro-face will be used as the company identifier on the marking label.