

**TYPE APPROVAL CERTIFICATE****This is to certify:****That the Industrial Computer**with type designation(s)  
**PS5000 series**

Issued to

**Schneider Electric France S.A.S.**  
**Carros, France**

is found to comply with

**DNV GL rules for classification – Ships, offshore units, and high speed and light craft****Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.****Location classes:**

<b>Temperature</b>	<b>B</b>
<b>Humidity</b>	<b>B</b>
<b>Vibration</b>	<b>A</b>
<b>EMC</b>	<b>A</b>
<b>Enclosure</b>	<b>Required protection according to relevant rules shall be provided upon installation on board</b>

Issued at **Høvik** on **2020-02-26**for **DNV GL**This Certificate is valid until **2021-05-08**.DNV GL local station: **Kobe**Approval Engineer: **Nils Jarem**

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**Marta Alonso Pontes**  
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Job Id: **262.1-020563-3**  
 Certificate No: **TAA000008R**  
 Revision No: **3**

## Product description

PS5000 Series Modular PC																	
Character number	1-4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
Prefix	PFXP																
Base unit	Modular box Atom	L															
	Modular box Core i7	P															
Product generation	Second generation		2														
Display type	None			B													
	Display 4:3 12"			6													
	Display 4:3 15"			7													
	Display W12"			D													
	Display W15"			J													
	Display W19"			L													
Display W21"			N														
Box type	# Any letter or number except 5 and 6				#												
CPU type	Atom fanless						B										
	Core i7 fanless						7										
Power supply	100 - 240Vac TG14-0135-01 or FSP132-1B48-C24						A										
	24Vdc						D										
RAM size								*									
Operating system									*								
Storage device	None										N						
	Flash drive (SSD)										*						
	CFast card CF										*						
	Flash drive (M.2 SSD)										*						
Options	None										0						
	Interface										*						
Second storage	None											N					
	Flash drive (SSD)											*					
	CFast card CF											*					
Software bundle													*				
Customization															*		
Spare																*	
* Any letter or number																	

Tested firmware versions: 1.13

Compass safe distances:

Standard: 80 cm;  
 Steering: 55 cm

Display reference:

PFXPPD5600TA	Display module 12" single touch for PS5000
PFXPPD5600WP	Display module W12" multi-touch for PS5000
PFXPPD5700TA	Display module 15" single touch for PS5000
PFXPPD5700WP	Display module W15" multi-touch for PS5000
PFXPPD5800WP	Display module W19" multi-touch for PS5000
PFXPPD5900WP	Display module W22" multi-touch for PS5000

## Place of manufacture

1, Alley 20, Lanc 26, Rueiguang Road, Neihu District, Taipei 114, Taiwan

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## Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV GL, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV GL rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

### Product certificate

If specified in the Rules, ref. Pt.4 Ch.9 Sec.1, the control and monitoring system in which the above listed hardware is used shall be delivered with a product certificate. For each such delivery the certification test is to be performed at the manufacturer of the application system before the system is shipped to the yard. The test shall be done according to an approved test program. After the certification the clause for application software control will be put into force.

### Clause for application software control

All changes in software are to be recorded as long as the system is in use on board. The records of all changes are to be forwarded to DNV GL for evaluation and approval. Major changes in the software are to be approved before being installed in the computer.

## Type Approval documentation

	Document:	Revision:
Data sheet:	PFXPP2BJ7D80N0NN00	1st Edition 2015
	PFXPP2BK7D80N0NN00	1st Edition 2015
	E1901PG-00	
Manual:	PS5000 Series (Modular Type) User Manual, Preliminary.	
Test reports:	EN150925C03	2015-10-21
	150514001C	2015-10-20
	160616001C	2016-12-20
	Witnessed tests	2015-11-17
	15-07-EAT-072-E00	--
	VS-TV-041101-11	2015-11-01
	VS-TV-041101-12	2015-11-01
	VS-TV-041101-13	2015-11-01
	VS-TV-041101-14	2015-11-01
	VS-TV-050201-01	2016-02-01
	VS-TV-051122-06	2016-11-22
	17-03-EAT-070-E00	2017 (witnessed)
	1906S01V	2019-10-07
	1906S02V	2019-10-15
	1906S03V	2019-10-18
	1906S04V	2019-11-06
	1906S05V	2020-01-03
	1906S06V	2019-12-18
Validation Plan:	GDE4400600	1.20/2019-09-19
	1906S01C	2019-10-07 (C01)
	1906S02C	2019-10-07 (C02)

Type approval initial assessment report, DNV GL Kaohsiung 2015-11-26.

## Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, December 2019.

Applicable tests for protected equipment according to IEC 60945, 4<sup>th</sup> edition (2002), except salt mist test.

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## **Marking of product**

The products to be marked with:

- manufacturer name
- model name
- serial number

## **Periodical assessment**

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE