



TYPE APPROVAL CERTIFICATE

Certificate No:
TAA000008R
Revision No:
4

This is to certify:

That the Personal Computer

with type designation(s)
PS5000 series

Issued to

Schneider Electric Japan Holdings Ltd.
Osaka, Japan

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:

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

Issued at **Busan** on **2021-04-12**

for **DNV**

This Certificate is valid until **2026-04-11**.

DNV local station: **Kobe**

Approval Engineer: **Dong Ho Park**

Andreas Kristoffersen
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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

PS5000 Series Modular PC		5	6	7	8	9	10	11	12	13	14	15	16	17	18
Character number	1-4														
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

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.

Type approval renewal assessment report for TAA000008R rev.3, DNV GL Kobe 2020-10-14.

Tests carried out

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

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

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



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- 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