

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Personal Computer

with type designation(s)
Magelis Computer

Issued to

SCHNEIDER ELECTRIC FRANCE
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:

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

This Certificate is valid until **2021-05-08**.

Issued at **Høvik** on **2017-07-21**

DNV GL local station: **Marseille**

for **DNV GL**

Approval Engineer: **Nils Jarem**

Odd Magne Nesvåg
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: **262.1-020537-2**
 Certificate No: **TAA000008M**
 Revision No: **2**

Product description

Magelis computer with or without 15" or 15.6" display as follows:
 HMIBMPHI74D, HMIBMPSI74D, HMIBMPCI74D, HMIBMP0I74D,
 TM901BMPHI74D, TM901BMPSI74D, TM901BMPCI74D, TM901BMP0I74D

Character number	Prefix	1	2	3	4	5	6	7	8	9	10	11	12
Part number example	HMI / TM901	B	M	P	H	I	7	4	D	2	8	0	1
Range name	Magelis Box iPC Performance												
iPC family		B											
Type			M										
Version	Performance - Core i7-4650U			P									
Drive	Flash drive (SSD)				S								
	CFast card (CF)				C								
	None				0								
Screen size	None					I	7	4					
Power supply	230VAC- TG14-0135-01 optional switch power supply								A				
	24 V DC								D				
Expansion slots	2 mini PCIe									2			
	2 mini PCIe and PCIe and PCI									4			
Operating system	None										0		
	*										*		
Bundled software												*	
Hardware iteration													*

HMIPCCP2 series:

Magelis Modular PC																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
Part number	H	M	I	P	C	C																	
Base unit	Modular Performance PC						P																
Product generation	Second generation						2																
Modular Panel type	None								B														
	Display PC 4:3 15" - XGA								7														
	Display PC W15" - WHD								J														
Box type										*													
CPU type	Performance - Core i7-4650U fanless											7											
Power supply	230VAC- TG14-0135-01 optional switch power												A										
	24 VDC												D										
RAM size													*										
Operating system														*									
Storage device	None															N							
	CFast															*							
	SSD															*							
Options	None																0						
	Interface- mini PCIe card																*						
	Interface- PCI-PCIe card																*						
Second storage	None																	N					
	CFast																	*					
	SSD																	*					
Software bundle																			*				
Customization																				*			
Spare																					*		
*Any value.																							

Tested firmware versions: 1.13

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Compass safe distances: Standard: 80 cm; Steering: 55 cm

Place of manufacture

1, Alley 20, Lane 26, Rueiguang Road, Neihs 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.	HMIBMPHI74D2801	1st Edition 2015
	HMIBMPHI74D4801	1st Edition 2015
	HMIPCCP2BJ7D80C0NN0	1st Edition 2015
	HMIPCCP2BK7D80C0NN	1st Edition 2015
	TM901BMPHI74D2801	1st Edition 2015
	TM901BMPHI74D4801	1st Edition 2015
Manual:	EIO0000002042	2015-08 (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)

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

Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, November 2015

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

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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 at least every second year and at renewal of this certificate.

END OF CERTIFICATE