

TYPE APPROVAL CERTIFICATE

Certificate No: **TAA000008M** Revision No:

-					4 5 6	
I h	10	10	+0	COL	*****	/ =
	13	13	ιυ	CEI	tify	

That the Personal Computer

with type designation(s)

Magelis Box iPC, Magelis / Harmony Modular PC

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:

Type Magelis Box iPC	Temperature D	Humidity B	Vibration A	EMC B	Enclosure Required protection according to relevant rules shall be provided upon installation on
Magelis / Harmony Modular PC	В	В	A	Α	board Required protection according to relevant rules shall be provided upon installation on board
Issued at Busan on	2021-04-12				(DW)
This Certificate is val DNV local station: K o		1.			for DNV
Approval Engineer: C	Oong Ho Park			***************************************	Andreas Kristoffersen Head of Section

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.



Form code: TA 251 Revision: 2021-03 www.dnv.com Page 1 of 5

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.



262.1-020537-4 Job Id: **TAA000008M** Certificate No:

Revision No:

Product description
Box iPC Modular - Optimized / Performance (Prefixed model)
HMIBMO -HMIBMP* series :

Digit	1-3	4	5	6	7	8	9	10	11	12	13	14	15
Range name	НМІ												
iPC family	Magelis Box iPC	В											
Туре			М										
	Optimized			0									
	Performance			Р									
	SSD				S								
	CFast card M.2 SSD				С								
					М								
	еММс				Е								
	None				0								
CDLLtung	Atom					Α	5	D					
CPU type	Core i7					1	7	4					
Power	Input 24Vdc				D								
supply	100 – 240 Vac TG1	or FSF	132-	1B48-	C24		Α						
	1 mini PCle	1											
	2 mini PCle	2											
Ex. slots	2 mini PCle and PC	4											
Ex. Siots	2 mini PCle and 2 P	I											
	2 mini PCle and 2 P	Е											
	1 mini PCIe for option	F											
os	See user manual. "*" Any letter or number												
Software	*** Any letter or number												
Hardware	"*" Any letter or num	ber											*

Form code: TA 251 Revision: 2021-03 www.dnv.com Page 2 of 5



Job Id: **262.1-020537-4** Certificate No: **TAA000008M**

Revision No: 4

HMIPCCP2 series:

Magelis / Harmor	ny Modular PC	1	1	1		1	1	1	1	1	1	1	1	1	_
Character number	1-6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Prefix	HMIPCC														
	Modular Optimized	L	1												
Base unit	Modular Performance	P	1												
Product generation	Second generation		2												
	None			B 6											
	Display 4:3 12"														
	Display 4:3 15" 7														
Display type	Display W12" D														
	Display W15"	J													
	Display W19"			L											
	Display W21"			N											
Box type	# Any letter or number e		5 and	16	#	В									
CPU type	Optimized – Atom fanless														
Or o typo	Performance - Core i7 fanless														
	100 - 240Vac TG14-013	-	Α												
Power supply	C24		_	_											
DAM -i	24Vdc						D	*							
RAM size								Ů							
Operating system									*						
	None N														
Storage device	CFast									*					
Storage device	SSD					*									
	M.2 SSD									*					
Options	None 0														
Options	Interface										*				
	None											N			
Second storage	CFast							*							
	SSD											*			
Software bundle													*		
Customization														*	
Spare															*
* Any letter or nun	nber														

Tested firmware versions: 1.13

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

Display reference:

HMIDM6421	Display 4:3 12" single touch for HMIBM
HMIDM6521	Display W12" multi-touch for HMIBM
HMIDM7421	Display 4:3 15" single touch for HMIBM
HMIDM7521	Display W15" multi-touch for HMIBM
HMIDM9521	Display W19" multi-touch for HMIBM
HMIDMA521	Display W22" multi-touch for HMIBM

Place of manufacture

1, Alley 20, Lane 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.

Form code: TA 251 Revision: 2021-03 www.dnv.com Page 3 of 5



Job Id: **262.1-020537-4** Certificate No: **TAA000008M**

Revision No: 4

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 certification the clause for software control will be put into force.

Software control

All changes in software are to be recorded as long as the system is in use on board. Documentation of major changes is to be forwarded to DNV GL for evaluation and approval before implemented on board. Certification of modified functionality may be required for the particular vessel.

Type Approval documentation

Document Revision Data sheet: HMIBMPHI74D2801 1st Edition 20 HMIBMPHI74D4801 1st Edition 20 HMIPCCP2BJ7D80C0NN0 1st Edition 20 HMIPCCP2BK7D80C0NN 1st Edition 2015 TM901BMPHI74D2801 1st Edition 20	15 15 15 15
HMIBMPHI74D4801 1st Edition 20 HMIPCCP2BJ7D80C0NN0 1st Edition 20 HMIPCCP2BK7D80C0NN 1st Edition 2015	15 15 15 15
HMIPCCP2BJ7D80C0NN0 1st Edition 20 HMIPCCP2BK7D80C0NN 1st Edition 2015	15 15 15
HMIPCCP2BK7D80C0NN 1st Edition 2015	15 15
	15
TM901BMPHI74D2801 1st Edition 20	15
TM901BMPHI74D4801 1st Edition 20	
DIA5ED2140501EN 2019-02-V9.0	
Manual: EIO0000002042 .06/2018-09	
Instructions: 35015283 13	
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 (witness	ed)
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-	
1906S01C 2019-10-07 (C	201)
1906S02C 2019-10-07 (C	(202

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

Type approval renewal assessment report for TAA000008M 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)

Form code: TA 251 Revision: 2021-03 www.dnv.com Page 4 of 5



Job Id: **262.1-020537-4** Certificate No: **TAA000008M**

Revision No: 4

- · 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

Form code: TA 251 Revision: 2021-03 www.dnv.com Page 5 of 5