

Certificate No: **TAA0000TE** 

# TYPE APPROVAL CERTIFICATE

This is to ce	ertify:	
That the Perip	pheral Equipment	
with type design Power Panel 5		
Issued to  Bernecke  Eggelsberg	er + Rainer Industrie-Elektronik Ges.m.b.H. OÖ, Austria	
is found to comp <b>DNV GL rules f</b>	ply with for classification – Ships	
Application:		
Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.		
Temperature	A	
Humidity Vibration	B A	
EMC Enclosure	B Required protection according to the Rules shall be provided upon installa on board.	ition
This Certificate i	is valid until <b>2021-11-01</b> .	
Issued at <b>Hamb</b>	burg on 2016-11-02	
DNV GL local sta	for <b>DNV GL</b>	
Approval Engine	eer: <b>Heinz Scheffler</b>	
	Duy Nam Le	
	Head of Section	

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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: **262.1-022715-2** Certificate No: **TAA00000TE** 

### **Product description**

#### Power Panel 520 and 551

- ATOM Z510 (1,1GHz), Z520 (1,33GHz) or Z530 (1,6GHz)
- Up to 2 GByte SDRAM
- 5,7" VGA bis 15" XGA Displays
- 2x USB 2.0 (5,7" und 7" device), 3x USB 2.0 (10,4"und 15" device)
- 1x RS232
- 1x Ethernet 10/100/1000 MBit/s

#### System unit:

- 5PP551.0573-(X)00 (5.7" function keys only)
- 5PP520.0702-(X)00 (7" touch only)
- 5PP520.1044-(X)00 (10.4" touch only)
- 5PP520.1505-(X)00 (15" touch only)

### Options:

- CPU board: 5PP5CP.US15-00, 5PP5CP.US15-01, 5PP5CP.US15-02
- Main memory: 5MMDDR.XXXX-01
- Compact flash: 5CFCRD.XXXX-(X)XX
- IF board: 5PP5IF.FXCM-(X)00, 5PP5IF.FX2X-(X)00, 5PP5IF.FCAN-(X)00,
- 5PP5IF.CCAN-(X)00, 5PP5IF.FETH-(X)00, 5PP5IF.CETH-(X)00, 5PP5IF.XDPM-(X)00, 5PP5IF.XPNM-(X)00, 5PP5IF.FPLM-(X)00

(X) = Optional alphanumeric character for customized versions X = Alphanumeric character

#### Application/Limitation

Filter 5AC804.MFLT-00 to be used in DC power line.

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 Ships Pt.4 Ch.9 Control and Monitoring Systems.

### **Type Approval documentation**

Test report: E35552-00-00MH, S35592-00-00AV, E35551-00-00MH, S35593-00-00AV, E35307-00-00KA, S35591-00-00AV, E35553-00-00MH, S35590-00-00AV, 5PP520.1505-00. Documents: Manual MAPP500-GER V1\_40.

#### **Tests carried out**

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

## **Marking of product**

The products to be marked with:

- Model name
- Manufacturer 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

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