



# DET NORSKE VERITAS

## TYPE EXAMINATION CERTIFICATE

CERTIFICATE NO. A-12342  
This Certificate consists of 3 pages

*This is to certify that the*  
**Serial Line Splitters**  
*with type designation(s)*  
**UPC-3002, UPC-3005, UPC-5000P, UPC-6000**

*Manufactured by*  
**O. Øverland AS**  
MOLDE, Norway

*is found to comply with*

- IMO Res. A.694(17) General requirements for shipborne radio equipment forming part of the global maritime distress and safety system (GMDSS) and for electronic navigational aids
- IEC 60945 Ed. 4 (2002-08) Maritime navigation and radiocommunication equipment and systems - General requirements - Methods of testing and required test results
- IEC 61162-1 Ed. 3.0 (2007) Maritime navigation and radiocommunication equipment and systems - Digital interfaces - Part 1: Single talker and multiple listeners

*Place and date*  
Høvik, 2011-06-16  
for DET NORSKE VERITAS AS

Frode Brattum  
Head of Section



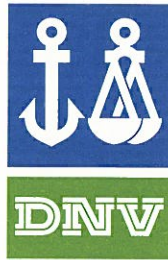
*Local Office*  
Kristiansund N

*This Certificate is valid until*  
2015-06-30

Jan Tore Grimsrud  
Surveyor

**Notice: 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 Examination Certificate and not to the approval of equipment/systems installed.**

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Cert. No.: A-12342  
File No.: 844.90  
Job No.: 262.1-003250-2

## Product description

O. Øverland Electronics A/S Serial Line Splitters consisting of following:

Serial Line Splitter:

- UPC-3002
- UPC-3005
- UPC-5000P
- UPC-6000

For more product details see Appendix.

For the latest revision of the Appendix, see <http://exchange.dnv.com/tari>

## Applications/Limitations

The equipment shall be installed and commissioned according to description in product test procedure for each splitter issued by O. Øverland Elektronikk A/S

## Type Examination documentation

See appendix for details.

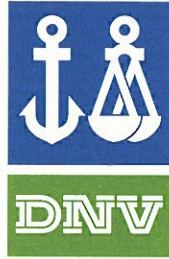
## Tests carried out

- Environmental testing, IEC 60945 (2002)
- Serial interface testing, IEC 61162-1 (2007)
- Serial interface testing, IEC 61162-2 (1998)

## Marking of product

The mark "O. Øverland Electronics A/S, UPC-3002 or UPC-3005 or UPC-5000P or UPC-6000" shall accordingly appear on an equipment label affixed to the equipment in a visible location.





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### Certificate retention survey

A retention survey is to be performed at least every second year, and again upon renewal of this certificate.

The scope of the retention/renewal survey is to verify that the production quality conditions stipulated for the type approval are complied with and that no alterations are made to the product design or its components and/or materials without appraisal by the Society.





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## APPENDIX REV. NO. 1 (Page 1 of 1)

### Product description

O. Øverland Electronics A/S Serial Line Splitters consisting of following:

Serial Line Splitter:

- PCB UPC-3002
- PCB UPC-3005
- PCB UPC-5000P
- PCB UPC-6000

### Type Examination documentation

- Det Norske Veritas Technical Report No.: 2007-3265 rev.1
- Det Norske Veritas Technical Report No.: 2010-3416 rev.1
- Product specification for UPC-3002 no A.J. 160806
- Product specification for UPC-3005 no A.J. 160806
- Product specification for UPC-5000P no A.J. 080307
- Product specification for UPC-6000 no A.J. 250810
- Test procedure issued by O. Øverland Elektronikk A/S

Place and date  
HØVIK, 2011-06-16

  
Jan Tore Grimsrud

END OF CERTIFICATE

