



Lloyd's  
Register

## Type Approval Certificate

*This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the LR Type Approval System.*

This certificate is issued to:

<b>PRODUCER</b>	Zenitel Norway A/S Bromsveien 17 P.O.Box 1068 N-3194 Horten Norway																						
<b>PLACE OF PRODUCTION</b>	Fideltronic ul.Beniowskiego 1 34-200 Sucha Beskidzka Poland																						
<b>DESCRIPTION</b>	Automatic telephone system / marine exchange, with intercom, integrated public address and general alarm																						
<b>TYPES</b>	- Vingtor ACM System Marine Exchange ACM-M-D-V2 rack Including components and modules: <table><thead><tr><th>Model</th><th>Description</th></tr></thead><tbody><tr><td></td><td>System rack 600x600x350mm steel cabinet</td></tr><tr><td></td><td>Distribution panel to connect field equipment</td></tr><tr><td></td><td>Electrical power unit</td></tr><tr><td>Stentofon</td><td>Intercom Exchange with the following modules:</td></tr><tr><td>Alphacom E7</td><td>Baseboard for IP, ASLT and ATLB12 and external connections</td></tr><tr><td>E7 baseboard</td><td></td></tr><tr><td>AMC-IP</td><td>- Board for IP connections</td></tr><tr><td>ASLT2</td><td>- Board for Intercom and an PA audio</td></tr><tr><td>ATLB-12</td><td>- Subscriber line boards for 12 subscribers</td></tr><tr><td>ACM-PS</td><td>Power supply with 230VAC inlet from main, 230 VAC inlet from UPS and 24 VDC and outlet for AC fail, DC fail and system fail.</td></tr></tbody></table>	Model	Description		System rack 600x600x350mm steel cabinet		Distribution panel to connect field equipment		Electrical power unit	Stentofon	Intercom Exchange with the following modules:	Alphacom E7	Baseboard for IP, ASLT and ATLB12 and external connections	E7 baseboard		AMC-IP	- Board for IP connections	ASLT2	- Board for Intercom and an PA audio	ATLB-12	- Subscriber line boards for 12 subscribers	ACM-PS	Power supply with 230VAC inlet from main, 230 VAC inlet from UPS and 24 VDC and outlet for AC fail, DC fail and system fail.
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<b>Certificate No.</b>	14/70016																						
<b>Issue Date</b>	30 January 2015																						
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<b>Sheet</b>	1 of 4																						

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LCM	Line Connection Module with - Subscriber Line interface - RCO relay interface for e.g. flashlights and sirens - PA Connections
MP-114	Analogue Telephone Gateway for up to 4 trunks
MP-118	Analogue Telephone Gateway for up to 8 trunks
100 9647 902 -932	Billing , 2/4/8/16/32 external trunks
220 0003 000	GSM media gateway
115 4002 100	Data switch, 4 ports
WS-C2960X	CISCO Catalyst C2960 Switch
CLG-XX	CISCO 1000BASE SFP Transceiver module
C29XX	CISCO 2911 Integrated Service Router
J962XA	HP ProCurve 2620 Switch
J4858C	HP X121 1G SFP LC SX Transceiver module
POWMOD-C 92474	Power module 230VAC main / 230VAC emergency 8 port switch w/6 port PoE injector
SD-200B-48	24VDC to 48VDC converter (power supply for 92747)
BC-24PP	Maritime LAN PP 24p w/ Cat6A conn

Other types:

- Vingtor ACM System Marine Exchange ACM-M-A-V2
- Vingtor ACM System Marine Exchange ACM-48-V10
- Vingtor ACM System Marine Exchange ACM-144-V10
- Vingtor AACM System Marine Exchange ACM-144-V10

ACM Field Equipment:

Model	Description
100 8000 000	CRM_V IP Desktop Intercom Master Station in enclosure
100 8001 000	CRM_V IP Desktop Intercom Master Station in enclosure w/handset
100 8031 000	CRM_V IP Flush Master Intercom Master Station for flush mount w/handset
VML-1520	Horn Loudspeaker 15W, 20Ω, Waterproof

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<b>Sheet</b>	2 of 4

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100 8072 200	Heavy Duty IP Telephone
221 3000 100	Heavy Duty Analog Telephone
221 3000 200	Heavy Duty Analog Telephone w/door
TCIS-1	Turbine Compact IP Standard-1 Substation
TCAS-1	Turbine Compact Analog Standard-1 Substation
TCIS-2	Turbine Compact IP Standard-2 Substation
TCAS-2	Turbine Compact Analog Standard-2 Substation
TCIS-3	Turbine Compact IP Standard-3 Substation
TCAS-3	Turbine Compact Analog Standard-3 Substation
TCIS-4	Turbine Compact IP Standard-4 Substation
TCAS-4	Turbine Compact Analog Standard-4 Substation
TCIS-5	Turbine Compact IP Standard-5 Substation
TCIS-6	Turbine Compact IP Standard-6 Substation
TFIE-1	Turbine Full-Size Industrial IP Extended-1 (w/ full keyboard) Substation
TFIE-2	Turbine Full-Size Industrial IP Extended-2 (w/ 6 DAK buttons) Substation
HSB-03	Telephone wall w/socket and hook switch for headset
P-MT7	Headset w/boom microphone
VAF-1	Flush (console) mount analogue telephone and PA Call Station

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<b>Sheet</b>	3 of 4

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**CONFIGURATIONS**

	ACM-M-A-V2	ACM-M-D-V2	ACM-48-V10	ACM-144-V10	AACM-144-V10
<b>Exchange component</b>	AlphaCom XE7		AlphaCom XE20	AlphaCom XE26	
<b>Number of line boards</b>	up to 6		up to 11	up to 17	up to 23
<b>Line connection modules</b>	1		2	3	4
<b>Traditional intercom lines</b>	not applicable	up to 36	up to 66	up to 102	up to 138
<b>Analogue telephone lines</b>	up to 72	up to 72	up to 132	up to 204	up to 276
<b>IP intercom &amp; stations</b>	not applicable	up to 552	up to 552	up to 552	up to 552
<b>Cabinet size</b>	600x600x350m	600x600x350m	600x746x605m	810x1275x680m	810x1275x680mm
	m	m	m	m	
<b>Purpose</b>	PBX	Intercom & iPBX	Intercom & iPBX	Intercom & iPBX	Intercom & iPBX

**APPLICATION**

Marine, offshore and industrial use in category ENV1 and ENV2 as detailed in Lloyd's Register Test Specification No.1, 2002.

**SPECIFIED STANDARDS**

Manufacturers specification.

**OTHER CONDITIONS**

Type Approval of products according to Test Specification No. 1 is essentially test of hardware. Examination of software aspects is restricted to functional operation as demonstrated in the Performance Test.

*"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."*

*The attached Design Appraisal Document No. 14/70016 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

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<b>Sheet</b>	4 of 4



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