

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Automatic Telephone System

with type designation(s)
SW-T501

Issued to

NET Co., Ltd.
Ulsan, Republic of Korea

is found to comply with
DNV GL rules for classification – Ships and offshore units
DNV GL rules for classification – High speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

This Certificate is valid until **2021-02-27**.

Issued at **Busan** on **2016-02-28**

DNV GL local station: **Ulsan**

Approval Engineer: **Geun Young Park**

for **DNV GL**

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Baeg Soon Choi
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.

Product description

SW-T501, Automatic Telephone System.

SW-T501, Automatic Telephone System is consisting of the following components. ¹⁾:

Component	Description	Module Number	Software version	Location
IP PBX (MVT-200)	Mother-Board (Main control unit)	SW_MMB_2516001	SWAN 11.XX	Protected
	Sub-Board (Module status monitoring)	SW_SUB_0116001	-	
	E-Board (Main control unit and telephony module interface)	SW_ETM_0316001	-	
	Back-Board (Main Control Unit and SATA HDD Interface)	SW-BMB_0116001	-	
	FXR0026 telephony module (Analogue telephone and Satellite communication interface)	SW_ANB_0316003	-	
	Alarm Panel	SW_ALM_0116001	-	
	TSW (Total Status Watch)	SW_TSW_0216001	-	
	IPIU (IP Paging Interface Unit)	SW_IPP_0116001	-	
	PSU (Power Supply Unit)	SW_PSU_0316001	-	
	FVU (Fan Ventilation Unit)	SW_TSF_0116001	-	
IP Phone	Desk type	IPT-1000	-	Protected
	Wall type	IPT-1000 W	-	
	Wall type	IPT-3000	-	
	Wall type with Headset connector	IPT-3000 H	-	
	Dimmable wall type	IPT-3000 D	-	
	Console type	IPT-3000 F	-	
	Dimmable console type	IPT-3000 FD	-	
	Console/Wall type with horn, lighting connector	IPT-3000 R	-	
Ethernet Switch	IPT-PSW-24GS	-		
Headset	IPT-Headset	-		
Optional telephony modules	PXR0024 FXS module (Analogue telephone interface)	SW_ANB_0316001	-	Protected
	PXR0025 FXO module (Satellite communication interface)	SW_ANB_0316002	-	
	PXR0052 PRI Module (8 PRI/R2/CAS Ports)	SW_ANB_0316004	-	

¹⁾ Actual installation may vary based on requirements for individual installations. Only modules listed in certificate are approved for installation.

Application/Limitation

- The system shall be installed in accordance with operation & installation manual.
- Ethernet and Serial interfaces may only be used for connections internally within the system, and are not approved for connection to other systems/ networks

Type Approval documentation

DNVGL No.	Document No.	Revision No.	Title
1	PM-TSWUNIT(OR92).DSN	-	Schematic drawing for TSW
2	PM-MVT-200-12	-	Schematic drawing for Sub board
3	PM-MVT-200-10	-	Schematic drawing for PSU
4	PM-IPIU 1/2/3/4/5	-	Schematic drawing for IPIU
5	PM-MVT-200-9	-	Schematic drawing for MVT-200 FVU
6	PM-MVT-200-11	-	Schematic drawing for MVT-200 back board
7	PM-MVT-200-13	-	Schematic diagram of MVT-200 Alarm Panel
8	-	-	Connection diagram in MVT-200
9	-	1.1	Configuration Guide for IPT-1000
10	-	1.4	Configuration Guide for MVT-200
11	IPT-3000-1/2/3/4/5	-	Schematic diagram for IPT-3000
12	IPT3000 RELAY_AMP(OR92).DSN	-	Schematic diagram for IPT-3000 Relay Amp.
13	KIC1587	1.0	Specification for MIC
14	08121103	-	Specification for Speaker
16	PM-IPT-1000-1/2/3/4	3	Schematic diagram for IPT-1000
17	-	1.1	Configuration Guide for IPT-3000
21	NET-TR150702-01	-	Electrical isolation information for SW-T501
23	NET-TR150617-01	-	Noise cancelling function for IPT-Headset
24	R162R-D015	-	ENVIRONMENTAL TEST REPORT (SW-T501)
25	NET-PT150622-01	-	Performance type test report
28	E161R-D048	-	Electromagnetic Compatibility Test report (SW-T501)
29	1601-00114-005	-	Compass Safe Distance Test Report (IPT-PSW-24GS)
30	1601-00114-001	-	Compass Safe Distance Test Report (IPT-1000)
31	1601-00114-003	-	Compass Safe Distance Test Report (IPT-3000)
32	1601-00114-004	-	Compass Safe Distance Test Report (IPT-Headset)
33	1601-00114-002	-	Compass Safe Distance Test Report (MVT-200)

Tests carried out

- Performance testing: DNV Type approval program No. 848.25
- Environmental testing: IEC60945 (2002)

Marking of product

The Manufacturer and Type Designation to be applied to the equipment in a clearly visible location. In addition the equipment shall be marked with serial number, safe distance to magnetic compass, power consumption and/or supply voltage.

Periodical assessment

A retention survey is to be performed at least once 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.

END OF CERTIFICATE