## MED-100/200 Hybrid and Full IP Telephone System

IP Based PABX (Private Automatic Branch eXchange)(MED-100, MED-200) 16~128 Extension, 8-trunk, GPS Interface

#### **GENERAL DESCRIPTION**

**Product Information** 

Auto Telephone System is an electronic telephone switchboard with reliability and durability to meet various needs occurring inside or outside the ship. It operates with the interface between the central exchange unit, which is a micro-computer controlled system, and telecommunication equipment.

Particularly, the system is suited to connecting not only to the telecommunication equipment such as Inmarsat-F, VSAT, Mini-M, and VSM but also to the Internet protocols and network communications. This system contains a minimum of 24 extension lines up to 500 and the lines can be installed by 8 or 16 units. As for the type of telephone, flush, wall, portable, waterproof, explosion-proof, and intrinsically safe (Used for normal condition or in the area with the possibility of explosive gas in case of accident) types are available, which can be interfaced to Horn/Bell/Flashing Light. This system was tested at the IEC60945 standard. The Type Appraval was done from DNV GL, RMRS.

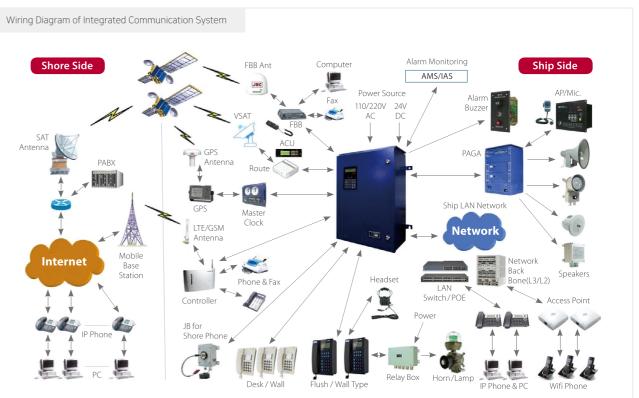


Integrated Communication System	1. PABX system : Analog, 2. PAGA system : Single o
	3. Communal aerial syster
	4. Master clock system : S

#### • Extension 40 + Trunk 4 ~ Extension 128 + Trunk 4 System Features · Simultaneous Call : number of lines Paging call : 3-Groups to PA system · Priority call / Group call / Call pickup function / Wake-up call $\cdot$ Call transfer / Call forwarding / Camp-on / Hotline · Add-on conference : 5 Party, 6 Group · Self-ring testing / System fails alarm & display · Handset hook fail alarm / Handset hook fail display · Main / emergency power automatic change & alarm display • Method for programming at front of main PABX cabinet · ISDN Connection using gateway (Optional) · VoIP using gateway (Optional) · Call accounting by serial printer (Optional) · EPROM back-up memory (Optional) · Recording and playback for PAGA paging (Optional) · Time synchronization between master clock or GPS system · Interface among VSAT and LAN/WAN network using IP gateway(Optional) · Program password protection / Variety application 1. Power Source : AC110/220V, 1Ø, 50/60 Hz Electric & Environment 2. Emergency Power : AC or DC 24V (Ripple less than 5%) 3. Power Consumption : AC - less than 100VA DC - less than 5A (At 24V DC) 4. Temperature : -20°C ~ +45°C 5. Humidity : Less than 90% 6. Certification : Submitted 1. PABX system : Analog, IP, Wi-Fi Phone using gateway Integrated Communication 2. PAGA system : Single or duplicated applications System 3. Communal aerial system : IP-TV, CCTV, TVRO, DVD & etc

4. Master clock system : Slave clock interfaced with GPS

**I** MED-100 Main Cabinet 🔺





#### Auto-Exchanger System





IP, Wi-Fi Phone using gateway or duplicated applications em : IP-TV, CCTV, TVRO, DVD & etc Slave clock interfaced with GPS

### MCX-5000 Auto-Exchanger System

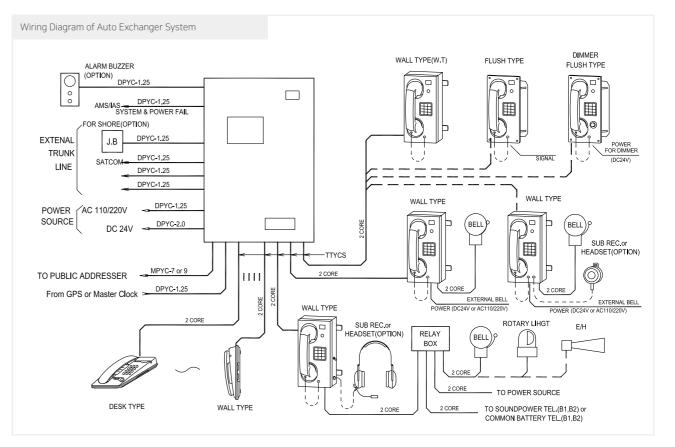
Marine PABX (Private Automatic Branch eXchange)(MCX-5000), 24~128 Extension, 4-trunk, GPS Interface

#### **GENERAL DESCRIPTION**

Auto Telephone System is an electronic telephone switchboard with reliability and durability to meet various needs occurring inside or outside the ship. It operates with the interface between the central exchange unit, which is a micro-computer controlled system, and telecommunication equipment. Particularly, the system is suited to connecting not only to the telecommunication equipment such as Inmarsat-F, VSAT, Mini-M, and VSM but also to the Internet protocols and network communications. This system contains a minimum of 24 extension lines up to 500 and the lines can be installed by 8 or 16 units. As for the type of telephone, flush, wall, portable, waterproof, explosion-proof, and intrinsically safe (Used for normal condition or in the area with the possibility of explosive gas in case of accident) types are available, which can be interfaced to Horn/Bell/Flashing Light. This system was tested at the IEC60945 standard. The Type Approval was done from DNV GL.



Electric &	<ol> <li>Power Source : AC110/220V, 1Ø, 50/60 Hz</li> <li>Emergency Power : AC or DC 24V (Ripple less than 5%)</li> <li>Power Consumption : AC - less than 100VA</li></ol>
Environment	DC - less than 5A (At 24V DC) <li>Temperature : -20°C ~ +45°C</li> <li>Humidity : Less than 90%</li> <li>Certification : Submitted</li>



#### **Product Information**

System Features	<ul> <li>Extension 40 + Trunk 4 ~ Extension 128 + Trunk 4</li> <li>Simultaneous Call : number of lines</li> <li>Paging call : 3-Groups to PA system</li> <li>Priority call</li> <li>Group call</li> <li>Call pickup function</li> <li>Wake-up call</li> <li>Call transfer</li> </ul>			
	<ul> <li>Call forwarding</li> <li>Camp-on</li> </ul>			
	· Hotline			
	<ul> <li>Add-on conference : 5 Party, 6 Group</li> </ul>			
	Self-ring testing			
	· System fails alarmz & display			
	· Handset hook fail alarm			
	· Handset hook fail display			
	$\cdot$ Main / emergency power automatic change & alarm display			
	$\cdot$ Method for programming at front of main PABX cabinet			
	<ul> <li>ISDN Connection using gateway (Optional)</li> </ul>			
	<ul> <li>VoIP using gateway (Optional)</li> </ul>			
	· Call accounting by serial printer (Optional)			
	· EPROM back-up memory (Optional)			
	$\cdot$ Recording and playback for PAGA paging (Optional)			
	$\cdot$ Time synchronization between master clock or GPS system			
	$\cdot$ Interface among VSAT and LAN/WAN network using			
	IP gateway (Optional)			
	<ul> <li>Program password protection</li> </ul>			
	<ul> <li>Variety application</li> </ul>			





#### Auto-Exchanger System



Integrated Communication System

- 1. PABX system : Analog, IP, Wi-Fi Phone using gateway 2. PAGA system : Single or duplicated applications 3. Communal aerial system : IP-TV, CCTV, TVRO, DVD & etc
- 4. Master clock system : Slave clock interfaced with GPS

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## Accessory-Auto Telephone MAIN CABINET : MED-100 | MED-200 | MCX-5000 Series

ACCESSORY FOR	TELEPHONE			
MODEL	LC-221A	LC-221B	LC-213A	LC-213B
РНОТО				
MOUNTING TYPE	DESK	WALL	WALL	WALL
GLAND	Х	Х	Х	1
SIGNAL CONTACT	Х	Х	0	0
TERMINAL DEVICE	Х	0	0	0
HEADSET	Х	Х	Х	Х
DIMMER	Х	Х	Х	Х
IP GRADE	IP22	IP22	IP22	IP44
(WxDxH)mm	168x100x210	168x100x210	152X143X270	152X143X270
WEIGHT	0.4kg	0.5kg	2.2kg	2.2kg
COLOUR	WHITE IVORY	WHITE IVORY	GRAY	GRAY
MATERIAL	ABS	ABS	ABS	ABS
INSTALL AREA	ACCOMMODATION	ACCOMMODATION	ACCOMMODATION	ACCOMMODATION

MODEL	LC-215A	LC-215C	LC-215AW	LC-217
РНОТО				
MOUNTING TYPE	FLUSH	FLUSH	FLUSH	PORTABLE
GLAND	Х	Х	Х	Х
SIGNAL CONTACT	0	0	0	Х
TERMINAL DEVICE	0	0	0	V
HEADSET	Х	Х	Х	Х
DIMMER	0	Х	X/0	Х
IP GRADE	IP22	IP22	IP56	IP56
(WxDxH)mm	152X175X270	152X175X270	152X175X270	156X162X274
WEIGHT	1.7kg	1.5kg	2kg	2.5kg
COLOUR	BLACK	BLACK	BLACK	GRAY
MATERIAL	ABS	ABS	ABS	STEEL/ABS
INSTALL AREA	CONSOLE	CONSOLE	WING CONSOLE	-

LC-213C LC-213E WALL WALL 2 3 0 0 0 0 Х Х Х Х IP44 IP44 152X143X270 220X143X270 2.7kg 2.2kg GRAY GRAY ABS ABS GALLEY, WORK SHOP GALLEY,WORK SHOP

INTRINSICALLY	SAFE TELEPHONE				
MODEL	∐S-114	MRN-2000IS	LIS-117	IBT-100	IBT-200
РНОТО					
CERT NO		IECEx BAS 17.0014X		IECEX BA	S 17.0013
GLAND	1	Х	Х	6	6
IP GRADE	IP44	IP22	IP44	IP44	IP44
WEIGHT	2.9kg	0.7kg	4.1kg	8.5kg	8.5kg
COLOUR	BLACK	BLACK	BLACK	GRAY	GRAY
MATERIAL	ABS	ABS	ABS	STEEL	STEEL
INSTALL AREA	HAZARDOUS AREA	HAZARDOUS AREA	HAZARDOUS AREA	SAFETY AREA	SAFETY AREA
(WxDxH)mm	189x100x224	200x110x223	194x153x25	406x83x256	406x83x256

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#### Auto-Exchanger System



GRAY

ABS

MACHINERY

LC-213G	LC-213G1
WALL	WALL
2	3
0	0
0	0
0	0
0 X	0 X
Х	Х

GRAY

ABS

MACHINERY

Auto-Exchanger System

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# Accessory-Auto Telephone MAIN CABINET : MED-100 I MED-200

ACCESSORY FO	R TELEPHONE (NEW VER	SION)			
MODEL	LAA-113A	LAA-114B	LAA-114C	LAA-114HB	LAA-114HC
PHOTO					
MOUNTING TYPE	WALL	WALL	WALL	WALL	WALL
GLAND	Х	2	3	2	3
SIGNAL CONTACT	0	0	0	0	0
TERMINAL DEVICE	0	0	0	0	0
HEADSET	Х	Х	Х	0	0
DIMMER	Х	Х	Х	Х	Х
IP GRADE	IP56	IP56	IP56	IP56	IP56
(WxDxH)mm	189x100x224	189x100x224	189x100x224	189x100x224	189x100x224
WEIGHT	2.9kg	2.9kg	2.9kg	2.9kg	2.9kg
COLOUR	BLACK	BLACK	BLACK	BLACK	BLACK
MATERIAL	ABS	ABS	ABS	ABS	ABS
INSTALL AREA	ACCOMMODATION	GALLEY,WORK SHOP	GALLEY, WORK SHOP	MACHINERY	MACHINERY

ACCESSORY FOR VOIP PHONE VERSION						
MODEL	LVD-111A	LVD-112A	LVD-113A	LVD-114B	LVD-114C	LVD-114HB
РНОТО						
MOUNTING TYPE	DESK	WALL	WALL	WALL	WALL	WALL
GLAND	Х	Х	Х	2	2	2
SIGNAL CONTACT	Х	Х	0	0	0	0
TERMINAL DEVICE	Х	Х	0	0	0	0
HEADSET	Х	Х	Х	Х	Х	Х
DIMMER	Х	Х	Х	Х	Х	Х
IP GRADE	IP22	IP22	IP56	IP56	IP56	IP56
(WxDxH)mm	220x97x200	220x97x200	189x100x224	189x100x224	189x100x224	189x100x224
WEIGHT	0.9kg	0.9kg	2.9kg	2.9kg	2.9kg	2.9kg
COLOUR	BLACK	BLACK	BLACK	BLACK	BLACK	BLACK
MATERIAL	ABS	ABS	ABS	ABS	ABS	ABS
INSTALL AREA	ACCOMMODATION	ACCOMMODATION	GALLEY, WORK SHOP	MACHINERY	MACHINERY	MACHINERY

LAA-115A	LAA-115D	LAA-116A	LAA-116D	LAA-117A
FLUSH	FLUSH	FLUSH	FLUSH	PORTABLE
Х	Х	Х	Х	Х
0	0	0	0	Х
0	0	0	0	0
Х	Х	Х	Х	Х
Х	0	Х	0	Х
IP56	IP56	IP56	IP56	IP56
189x100x224	189x100x224	189x100x224	189x100x224	194x153x255
2.9kg	2.9kg	2.9kg	2.9kg	4.1kg
BLACK	BLACK	BLACK	BLACK	BLACK
ABS	ABS	ABS	ABS	STEEL/ABS
CONSOLE	CONSOLE	CONSOLE	CONSOLE	-

LVD-114HC	LVD-115A	LVD-115D	LVD-116A	LVD-116D	LVD-117A
WALL	FLUSH	FLUSH	FLUSH	FLUSH	PORTABLE
3	Х	Х	Х	Х	Х
0	Х	0	0	0	Х
0	0	0	0	0	Х
Х	Х	0	Х	0	Х
Х	Х	0	Х	0	Х
IP56	IP56	IP56	IP56	IP56	IP56
189x100x224	189x100x224	189x100x224	189x100x224	189x100x224	194x153x255
2.9kg	2.9kg	2.9kg	2.9kg	2.9kg	2.9kg
BLACK	BLACK	BLACK	BLACK	BLACK	BLACK
ABS	ABS	ABS	ABS	ABS	STEEL/ABS
MACHINERY	CONSOLE	CONSOLE	CONSOLE	CONSOLE	-

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### Auto-Exchanger System

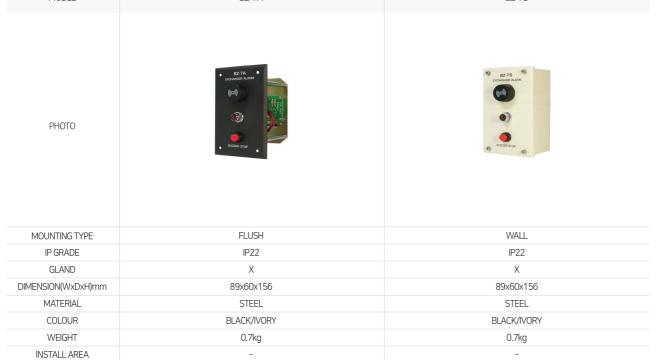


Auto-Exchanger System 27

## **Accessory-Auto Telephone**

MAIN CABINET : MED-100 | MED-200 | MCX-5000 Series









#### Auto-Exchanger System



FLUSEWALLIP22IP22XX72x40x12068x60x30ABSABSIVORYIVORY0.11kg0.11kgFOR DESK TELFOR DESK TEL	JB-63A	JB-63B
IP22         IP22           X         X           72x40x120         68x60x30           ABS         ABS           IVORY         IVORY           0.11Kg         0.11Kg		
X         X           72x40x120         68x60x30           ABS         ABS           IVORY         IVORY           0.11Kg         0.11Kg	FLUSE	WALL
72x40x120         68x60x30           ABS         ABS           IVORY         IVORY           0.11Kg         0.11Kg	IP22	IP22
ABS         ABS           IVORY         IVORY           0.11Kg         0.11Kg	Х	Х
IVORY         IVORY           0.11Kg         0.11Kg	72x40x120	68x60x30
0.11Kg 0.11Kg	ABS	ABS
	IVORY	IVORY
FOR DESK TEL FOR DESK TEL	0.11Kg	0.11Kg
	FOR DESK TEL	FOR DESK TEL

MRN-2000	ATC-2000'S
-	-
IP22	IP22
Х	Х
200x110x223	5M/10M/15M
ABS	PVC Jacket
BLACK	GRAY
0.7kg	0.2kg
MACHINERY("N" TYPE TEL)	PORTABLE TYPE TEL

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