

87-COM53/4 – Sailor 6222 / 6248

PRODUCT SHEET

The COM53/4 is a VoIP Base Station Controller for COBHAM SAILOR 6222 or 6248.

The COM53/4 kit includes cables for connection of one radio unit.



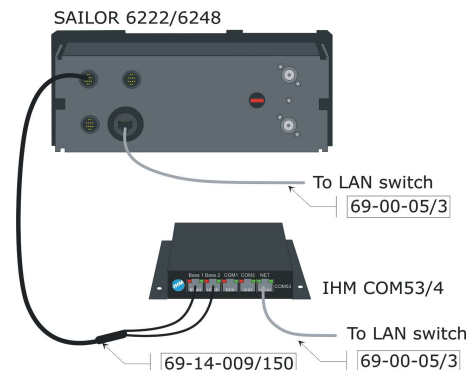
The radio interface

Both the SAILOR 6222 and the SAILOR 6248 can be set for vessel or coast station use. The radio delivers simplex or semi duplex marine VHF channels. The SAILOR 6222 includes DSC.

Please note: The radio unit is not part of the IHM delivery.

Functions

- Audio input and output to and from the radio
- PTT output (relay), as the radio is working in simplex and semi duplex mode, the received signal will be disabled when PTT is activated.
- Squelch input. Together with IHM MCS Flexible series, the squelch opening level can be set in three sensitivity levels.
- RSSI, (0-5Vdc) indicates the strength of the received signal via a level bar. If you have more radios on the same frequency for a larger coverage area, RSSI can be used for letting the operator select which radio to use for a conversation.
- Power output control, the power output can be set to low or high, when used with IHM MCS Flexible series.
- Channel selection, the radio can either be used as single channel or multichannel. The number of channels, which can be used depend on the firmware in the radio and corresponding COM53 firmware and McsService32.exe + ActServ.ini versions.
- DSC. As option the Digital Selective Calling facility can be enabled, when using the SAILOR 6222 radio.
- Dual operation, the operator can control the radio both from its control head and from the IHM application. Usage of the SAILOR handset on the radio disables remote operation from the IHM application.



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Optional functions

- Emergency call (for vessel applications)
- GPS coordinates can be transferred from the 6222 radio and displayed in the operator application

Functions – not supported

- Dual watch and scanning*

*Only supported in COM53/4 for customized solutions.

Technical data

Parameter	Test conditions	Min.	Typ.	Max.	Unit
Supply voltage					
Vsupply		10.6		30.0	Vdc
Current consumption					
Isupply	Vsupply = 12Vdc		250	350	mA
	Vsupply = 24Vdc		150	250	mA
Ethernet					
Connection	IEEE 802.3 / RJ45				
Speed	Dual Speed 10/100 Mbit/s		100		Mbit/s
Auto	Auto Negotiation Enabled				
Bandwidth required	Per active voice channel	128			Kbit
Latency	one direction, both directions			150 300	msec
Jitter		160			msec
Broadcast	Should be avoided or kept to a minimum				
Base Station					
Input-level		-25	-10	-3	dBm
Output-level		-25	-10	-3	dBm
Impedance			600		ohm
RS232					
Vout Low			-5V		V
Vout High			5V		V
Baud rate	Adjustable	2400		115200	Baud
Temperature range					
Ambient		0°		55°	C
Storage		-10°		65°	C
Mechanical specifications					
Module type (PCB)	120*100 mm				
Weight (PCB)	100 g				
Box size	110 x 130 x 28 mm				
Weight (PCB + Box)	250 g				
Weight (PCB + Box + Cables)	550 g				



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Important !

COM53/4 firmware: minimum c53_Sailor_VHF_978.hex or even better c53_Sailor_VHF_982.hex and code file C53_Sailor_VHF_default_V10.com53.

IHM supports SAILOR firmware release 2.15. MCSService32.exe release 3.0.5.3405 with parameter filer ActServ.ini and later releases supports the legacy 55 channels + the channels 1019/2019, 1020/2020, 1027,1028,1078/2078, and 1079/2079.

The SAILOR 6222 VHF radio may not make use of the built-in phonebook, as this would jeopardise remote operation via the COM53.

When using IHM COM53 firmware equal to c53_Sailor_VHF_982.hex, the SAILOR radios do not need connection to a DHCP server. The radios serial number is used to establish connection with the system.