



## OEM module system Cospas-Sarsat, AIS and DSC VHF

This OEM module is designed for using in all types of Cospas-Sarsat devices, such as EPIRB, PLB, ELT and also for other different types of rescue equipment as MOB, AIS PLB, EPIRB-AIS, AIS-SART, rescue tools (emergency buttons) for installation on trucks, lost containers tracking facilities, for MSLD device (MSLD) and other device combinations according to RTCM 11901.1

### Main features of suggested OEM modules are described below.

#### Cospas-Sarsat 406MHz OEM-module part number – MS-ACS M1

Adding to device MS-CS M1 specifications.

#### AIS-SART channel specifications

Operating frequency: channel 1 – 161.975MHz  
channel 2 – 162.025MHz

Power: 33dBm (2W)

Modulation: GMSK

Modulation method: digital

Frequency stability:  $\pm 2$ ppm

Spurious emission attenuation: not less than 40dB

Bit rate: 9600Baud

ID and MMSI programming from PC

Operation modes: emergency / test

Self-testing: battery voltage, output power, frequency capture, GPS coordinates presence

Average current consumption (including GPS): 12mA

#### DSC channel specifications

Operating frequency: 156.525MHz (channel70)

Power: 33dBm (2W)

Modulation: G2B

Modulation method: digital

Frequency stability:  $\pm 2$ ppm

Spurious emission attenuation: not less than 40dB

Bit rate: 1200Baud

ID and MMSI programming from PC

Operation modes: emergency / test

Self-testing: battery voltage, output power, frequency capture, GPS coordinates presence

Average current consumption (including GPS): 10mA

#### General specifications

Power supply: 4.8-7.2V

Operating temperatures: -20°C to +55°C

PCB size: Diameter: 55mm, height with add-on components not more than 10mm.

PCB weight: not more than 20gr

Compliance: ETS300 066, Cospas-Sarsat C/S T.001, C/S T.007; IEC\_61097-14; IMO Resolution.

Outdated frequencies 121.5 and 243MHz can be added – more information if requested.

Operation in lower temperatures is possible – more information if requested.

#### Options

Soft- and hardware for coding and parameter installation by manufacturer – part number PSH M1

Software, coding tool and its design docs for ID changing on frequency 406MHz, AIS and DSC – the set should be sent to dealer and service centers for coding specially for user – part number CS M1.

