



MARINE RADIO

VHF GMDSS SURVIVAL CRAFT RADIO

GX510

The GX510 is a SOLAS-approved GMDSS Survival Craft Emergency Transceiver, expertly designed for reliable communication with Search and Rescue teams and mariners in times of distress. Designed for commercial vessel use, the GX510 ensures unwavering reliability under critical conditions.

The radio can switch between normal VHF radio operations and GMDSS functionality, when paired with an optional rechargeable battery. With a robust 5/2.5/1W switchable power transmission and superior IPX8 ingress protection, the GX510 stands out as a superior choice for professionals navigating challenging marine environments.

FEATURES

5/2.5/1 Watt Switchable Power

GMDSS Primary Battery

Rechargeable Lithium Battery

Ultra-Long Standby Mode

Large Backlit LCD display

Desktop Charge Cradle

Compact Design with IPX8 Ingress Protection

Dedicated Channel 16 Emergency Button

International Channel Set and GMDSS Channel

Dual Watch, Triple Watch, Scan Function

110-240v 5VdC Power Adapter EU,UK, AUK, US



Specifications

GMDSS RADIO SPECIFICATIONS	
GENERAL	
GMDSS Frequency coverage	156.300 – 157.425 MHz
Frequency stability:	≤ ±5 ppm
Duty cycle	TX10%, RX10%, Stand-by 80%
Power supply voltage; VHF/GMDSS	DC6.0V
Operating temperature	-20°C to +55°C
Dimensions (projections not included):	129.14mm x 58.43mm x 39.53mm
TRANSMITTER	
GMDSS High Power	2.5 W
Low Power	1
TX Frequencies Error	± 1.5kHz
Modulation Limiting Deviation	≤ ±5 KHz
TX Audio Frequency Response	+1 dB to -3 dB of 6 dB octave from 300-3000 Hz
Audio Distortion at 3 KHz Dev.	<5%
Residual modulation: 40 dB	≤40 dB
Microphone Sensitivity	13±3 mV
Harmonic Distortion	<5%
Spurious Response	≤ -36 dBm
Modulation Mode:	FM (16K0G3E)
Current Drain GMDSS Transmit (High)	≤1.0 A
Current Drain Transmit (Low)	≤0.8 A
RECEIVER	
RX Sensitivity For 12dB SINAD	≤6(EMF) dBμV
Squelch: a) Squelch sensitivity b) (Depth squelch) squelch tight c) SQ Hysteresis	<-6.0(EMF) dBμV ≤+6(EMF) dBμV 3~6 dB
Rated audio output at 10% Thd Speaker	≥700 mW
RX S/N ratio	≥40 dB
RX Audio frequency resp. dB 1000Hz/0dB ref	+1 dB to -3 dB of 6 dB octave from 300-3000 Hz
Adjacent Channel Rejection	≥70 dB
Image rejection(58.05Mhz/450KHZ)	≥70 dB
Intermodulation rejection (3-Gen.Method)	≥65 dB
Spurious response rejection	≥70 dB
Current Drain Maximum Audio Power	≥700 mW
Standby Current	≤60 mA
ACCESSORIES	
Belt Clip	MB510
AC Adaptor	PS009
Replacement Antenna Suits	AE510
Battery GMDSS	BP510P
Battery Rechargeable	BP510R
Desktop Charger	BC510

VHF RADIO SPECIFICATIONS	
GENERAL	
VHF Frequency coverage	TX: 156.025 - 162.425 RX: 156.050 - 162.000 MHz
Frequency stability:	≤ ±5 ppm
Power supply voltage; VHF	DC7.4V
Operating temperature	Charge: 0°C to +40°C Discharge: -20°C to +55°C
Dimensions (projections not included):	129.14mm x 58.43mm x 39.53mm
TRANSMITTER	
VHF High Power	5 W
Low Power	1
TX Frequencies Error	≤ 1.5kHz
Modulation Limiting Deviation	≤ ±5 KHz
TX Audio Frequency Response	+1 dB to -3 dB of 6 dB octave from 300-3000 Hz
Audio Distortion at 3 KHz Dev.	<5%
Residual modulation: 40 dB	≤ 40dB
Microphone Sensitivity	13±3 mV
Harmonic Distortion	<5%
Spurious Response	≤ -36 dBm
Modulation Mode:	FM (16K0G3E)
Current Drain VHF Transmit (High)	≤1.4 A
Current Drain Transmit (Low)	≤0.8 A
RECEIVER	
RX Sensitivity For 12dB SINAD	≤6(EMF) dBμV
Squelch: a) Squelch sensitivity b) (Depth squelch) squelch tight c) SQ Hysteresis	<-6.0(EMF) dBμV ≤+6(EMF) dBμV 3~6 dB
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www.gme.net.au

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Specifications are subject to change without notice, they are issued as a guide only and shall not form part of any contract without the express written authorisation of GME.

GME's Australian Manufacturing facility is ISO9001:2015 certified.