SIMRAD

SIMRAD MX510
Professional Navigation System

IMO Type-Approved with RAIM enabled

Choice to save and restore Waypoints, Routes and Configuration settings

Multiple navigation data management options using LAN, USB or NMEA serial ports

Convenient navigation equipment interface using LAN or NMEA ports

High speed LAN interface for Master/Slave operation (with Integrity Monitoring) and up to 4 slave displays

GPS/DGPS Receiver
The MX510 connects to the MX521A smart D/GPS antenna, MX525A black box D/GPS receiver and MX575A D/GPS Compass. It is backward compatible with the MX421, MX521 and MX525 smart antennas.

Built-in Experience
The new MX510 is based on years of experience building professional navigators, starting with the MX100, MX400, and the MX420 families. Now the MX510 has a new 21st century PC-based technology that utilizes state of the art innovation in marine navigation.

New Features
The MX510 gives you the flexibility to use it as single stand-alone navigation system or in Dual-Control mode with one or more slaves via high-speed LAN connectivity. You now have a choice to save and restore navigation data using either a USB memory stick or through the built-in flash RAM. Optional software updates can be made through the USB port.

Designed for the Users
The MX510 is easy to use via the user-friendly MMI (Man Machine Interface) already renowned from its predecessors; this versatile navigation system offers extraordinary capabilities, with its multi-port interface that can be connected to ECDIS, ARPA, Gyro and other navigation information systems.
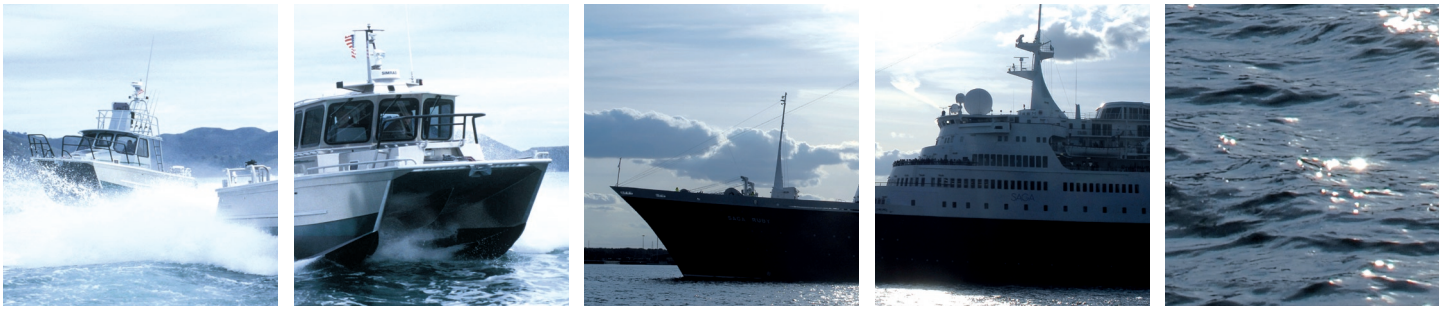
DGPS
The MX510 with the MX521A or MX525A D/GPS is a type-approved marine navigator. Backward compatible with MX421 D/GPS antenna. It is also compatible with MX575 D/GPS Compass.

MX 510 General Features

Position Presentation: Lat/Lon, UTM and User-Defined GRID (option)

Position Resolution: 4 decimal places (Lat/Lon)

Waypoints: 2000 waypoints with 20-character alphanumeric names and icon

Routes: 100 Routes with a dynamic number of waypoints; up to 2000 in all routes

Special Features: GOTO, Mark and MOB, 3-D Panoramic steering display, Tide, Speed Graph, Sun & Moon Almanac, and Wind Calculations.

Display: 5.7in. B/W STN, 320 x 240 pixels, back-lit LCD display

Dual Control: Master/Slave configuration or with up to 4 repeaters via high-speed LAN

Languages: English, Danish, Dutch, French, Finish, German, Italian, Spanish, Swedish (Some screens may still be in English)

CPU: Intel PXA255 XScale Processor

Memory Size: Data: 32MB RAM Program: 32MB (FLASH)

Data Storage: USB memory stick (FAT32 format), or Built-in Flash RAM

Power

Input Voltage: 10.5 to 32 VDC, 10 watts
Grounding: Chassis isolated from electrical ground.

Physical

Dimensions: 292 x 150 x 105mm. (WxHxD)
11.5 x 5.9 x 4.2in.
Weight: 3.35 lbs
Mounting: Yoke or optional flush mount

Electrical Interface

Ports: 2-EN-61162-1 compliant user programmable I/O data ports and 2 I/O ports dedicated to smart antenna, black box receiver, USB and LAN ports

NMEA Output: NMEA 0183 V3.0: APA, APB, BOD, BWC, BWR, GGA, GLL, GRS, HSC, MSK, MSS, RMB, RMC, Rnn, RTE, SNU, VDR, VHW, VPW, VTG, WCV, WPL, XTE, ZDA, ZTG, GBS, HDT & ROT

NMEA Input: DPT, DBS, DBT, DBK, GLL, HCC, HDM, HDT, MMB, MWV, RMA, RMC, VHW, VTG, VWR, WPL, XDR, GSA, GST, GRS, GSV, GBS*, RTE & ROT

Pulse Log Emulation: 1-30,000 pulses per NM

Reprogramming: field programmable using USB

Connectors:
1x -12-pin conn. for Power & Data
1x -10-pin conn. for Antenna
1x -8-pin conn. for Auxillary
2x USB
1x RJ45 LAN

Environmental

Temperature:
    Operating: -15°C to +55°C
    Storage: -30°C to +70°C
Humidity: IEC 60945 ed4
Housing: Splashproof
Compliance:
IMO: MSC 112 (73), IEC 61108-1, IEC 61162-1, IEC 60945 Ed. 4

FCC: Meets FCC Part 15 subpart B
Type Approval: CE, USCG, CCS, Wheelmark

* MX Proprietary RAIM message ($PMVXG, GBS)

DISTRIBUTED BY

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