

SIMRAD

SIMRAD MX512

Professional Navigation System



IMO Type approved including RAIM
(Receiver Autonomous Integrity Monitoring)

Choice to save and restore Waypoints, Routes and
Configuration settings using USB device or through the
built-in Flash RAM

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

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

9 independent serial data ports and one VGA port



GPS/DGPS Receiver

The MX512 connects to the MX 521A smart D/GPS antenna, MX525A black box D/GPS receiver and MX575 D/GPS Compass. It is backward compatible with the MX421, MX521 and MX525 smart antennas.

Built-in Experience

The new MX512 is based on years of experience building professional navigators, starting with the MX100, MX400, and the MX420 families. Now the MX512 has a new 21st century PC based technology that utilizes state of the art innovation in marine navigation.

Designed for the Users

The MX512 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. It can be configured as a single display or multi-unit redundant displays.

DGPS

The MX512 with the MX521 or MX525 D/GPS is a type-approved marine navigator. Backward compatible with MX421 D/GPS antenna. It is also Compatible with MX575 D/GPS Compass.

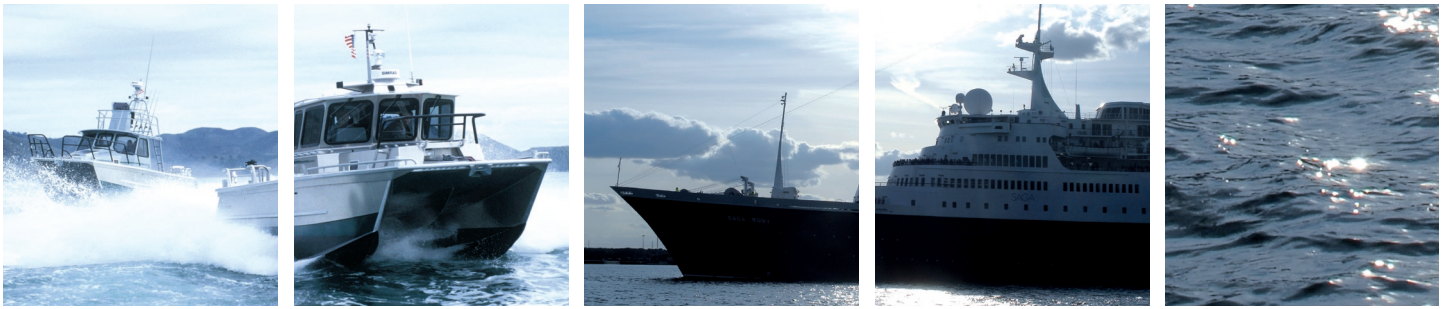
Data Interface

The MX512 features eight independent RS-422 and one RS-232 serial ports for two-way communication with any NMEA 0183 compatible device. Optional software updates are made through the convenient USB ports.



ISO 9001 :2000 Certified ^





MX 512 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, 15 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: 9x-EN-61162-1 compliant user programmable I/O data ports (8-RS-422 and 1-RS-232) and 2 I/O ports dedicated to smart antenna, 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

1 x 44-Pin dB connector for data

1x VGA (15-Pin) connector

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)

** Pre-wired junction box is standard accessory with the MX512 model

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