

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.

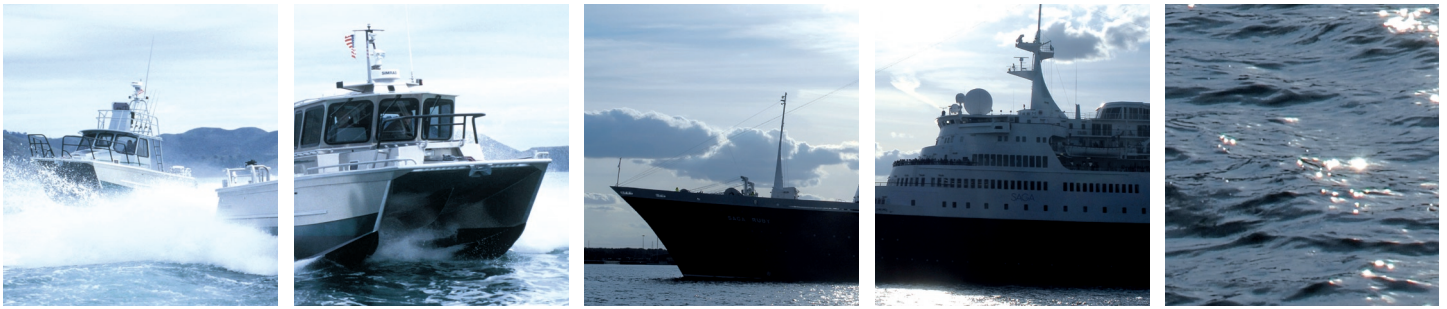
Data Interface

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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