

MX610/MX612 Professional Navigation Systems

The MX610 and MX612 are IMO type-approved navigation systems designed for the professional mariner. Offering convenient data interface using either SimNet or NMEA 2000, set up and connection to other devices couldn't be simpler. Utilising the trusted MX521A GPS/DGPS smart antenna and MX61x junction box, this is a complete professional navigation system for any professional vessel requiring IMO type-approved electronics.

A New Generation

Designed to system match the new generation of Simrad Autopilots (AP60, AP70 and AP80), the sleek new design, complete with low profile bezel and colour display, offers a new look to the more traditional navigation systems. The 5" LCD bonded screen delivers a clearer and fog-proof display with wide viewing angles.

Functionality & Configuration

The MX610/MX612 both feature hot keys for direct access to info such as position and navigation data, and you can enjoy the convenience of heading and AIS data when an appropriate GPS compass or AIS unit is available on the NMEA 2000 network. Operators also have the opportunity to save and restore navigation data using a USB memory stick. The USB port can also be used for optional software updates.

The new generation of Simrad Professional navigation systems offer more NMEA 0183 serial ports. The MX610 includes 4 ports, while the MX612 offers 12 dedicated ports. This multi-port interface allows simple plug-and-play connectivity to other NMEA devices such as ECDIS, AIS, Gyro and other navigation information systems.

Although you can purchase a complete MX610/MX612 system including an MX521A smart antenna, the control units are also compatible with a range of current Simrad antennas making replacement of previous CDU models like MX420, MX510 or MX512 easier. Integrate the MX610/MX612 with the Simrad MX575C DGPS Compass, GS70 antenna or HS80 GPS compass.



Main Features:

- Cost effective IMO-compliant navigation system
- Convenient data interface using the NMEA 2000 Network including simple plug-and-play connectivity to other NMEA 2000 enabled systems
- Buy in a conveniently packaged ready-to-use system, or choose to integrate with the Simrad HS80 GPS compass or GS70 GPS antenna
- Standard low profile flush mount or U-bracket option
- MX610/MX612 can be used with MX575C DGPS compass, which has dual IMO compliance certification as a navigation AND a heading device
- 5" glass bonded display for clearer, brighter, fog-proof operation
- 16-bit colour TFT display provides wider viewing angle
- Dedicated hot keys for position, navigation, heading and AIS for quick and easy access
- LAN can be used to output NMEA 0183/IP messages

Technical specifications overleaf.



Technical Specifications

| ► DISPLAY | |
|---|---|
| Display Size | 127mm / 5" |
| Display Resolution | 480 x 480 (H x W) |
| Display Type | 16-bit color TFT |
| Anti-fog | Bonded LCD glass |
| Best viewing direction | All directions |
| Display backlight | Cold Cathode Fluorescent Lamp (CCFL) |
| ► NETWORKING | |
| CAN bus | NMEA 2000 (N2K) |
| Ethernet (LAN) | Yes –used for software update and NMEA 0183/IP |
| USB | 1x USB |
| Controllable NMEA 0183 ports (via the MX61x Junction Box) | 4x –MX610 12x –MX612 |
| ► POWER | |
| Local supply | 12/24 V DC +30-10% |
| Consumption local supply | 0.7/0.4 A at 12 V DC 0.4/0.3 A at 24 V DC "backlight full/off" |
| NMEA 2000 LEN* (50 mA) | 1 |
| Interface | External alarm/Active unit power output max 100 mA, 4.5 A short circuit limit External MOB input, contact current max 8 mA |
| ► ENVIRONMENT | |
| Temperature, operation | -30°C to +55°C (-22°F to +131°F) |
| Temperature, storage | -25°C to +70°C (-13°F to +158°F) |
| Protection | IPx4 |

| ► MECHANICAL | |
|-----------------------|---|
| Weight | 1.4 kg (3.0 lb) |
| Size | 252 mm (W) x 144 mm (H) x 54 mm (D) (9.9 x 5.6 x 2.1") |
| Mounting | Panel (flush) or optional bracket |
| Construction Material | Epoxy coated seawater resistant aluminium back cover, plastic front bezel |
| Colour | Black and grey |
| Cable inlet | 1 Power/Alarm, 1 Micro-C connector |

*LEN: NMEA 2000 Load Equivalent Number. Where 1 LEN draws about 50 mA current from the NMEA 2000 network.

| MX610 PART NUMBERS | DESCRIPTION |
|--------------------|--|
| 000-10919-001 | MX610 CDU, MX610 Junction box, MX521A GPS Antenna |
| 000-10917-001 | MX610 CDU, MX610 Junction box, MX521A DGPS Antenna |
| MX612 PART NUMBERS | DESCRIPTION |
| 000-10921-001 | MX612 CDU, MX612 Junction box, MX521A GPS Antenna |
| 000-10923-001 | MX612 CDU, MX612 Junction box, MX521A DGPS Antenna |

Some additional NMEA 2000 backbone parts may be required



► MX610
Control and
Display Unit



► MX612
Control and
Display Unit

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