X100

VHF | DSC | AIS

CONNECT-X
Effortlessly connect
with all your smart devices.

Download on the App Store | GET IT ON Google Play

Marine VHF/DSC Radio with Integrated AIS Class B
Connected Convenience

em-trak

X100 – VHF/DSC/AIS Marine Radio Communication System

VHF/DSC communication seamlessly combines a powerful 5W receive and transmit AIS Class B transceiver and the convenience of wireless connectivity to provide you with a marine radio system that does it all. It also offers the benefit of **CONNECT-X** connected convenience.

Engineered for performance, the X100 is built to withstand a lifetime of extreme marine environments. Completely waterproof, ruggedised against shock and vibration, and with daylight-readable full-colour display and tactile knobs and buttons, it is a radio system you can rely on.

X100
VHF | DSC | AIS

X100 Base

CONNECT-X
Mobile Device System

Functionality			Engineering			Connected	
VHF/DSC 25W	AIS Class B AIS	MOB/PLB	Clearwave Audio	Hi-Vis Colour Display	VHF/AIS Antenna Splitter	Bluetooth & Wifi	Connect-X Mobile App
AIS CPA Alerts	Private Intercom	Loudhailer	Power Efficient	Waterproof	Global Certification	NMEA2000 & 0183 0183 2000	Interoperable

Connect-X mobile device command mic app

Packed with features

X100 is a marine radio communications system engineered and built for marine life with functionalities for professional, commercial or leisure mariners. Tough, rugged and packed with functionalities designed to make your boating safer and more convenient.

- Use your cell phone or smartwatch to make and receive VHF/DSC radio calls, as well as monitor real-time AIS traffic, anywhere on board, above or below deck.
- Crystal clear digital audio quality.
- Ergonomic, full-colour user interface with ruggedised tactile control buttons and knobs.
- Plug and play connectivity and interoperability convenience with all your existing onboard navigation systems and chartplotters, mobile devices and nav-apps.
- Powerful commercial-grade AIS Class B transceiver with silent mode and CPA monitoring and alerts.
- Small, lightweight, low-power consumption. Built-in zero-loss splitter so only one VHF antenna is required to support both AIS and VHF simultaneously.
- Integrated GPS antenna means external GPS antenna is optional and not required in most installations.

Connected Convenience

VHF/DSC on your smart device

- Download **CONNECT-X** App to your smartphone or watch (any Apple or Android mobile device) and use it anywhere onboard as a fully wireless command mic (no cell network required). Monitor, make and receive VHF/DSC radio calls anywhere onboard, above and below deck, and experience the power and convenience of DSC/AIS radio-linked communications.

Private group intercom

- Download **CONNECT-X** to multiple smartphones and watches to create a private on board intercom that you can use to easily communicate with fellow crew members, family, friends and guests to make onboard tasking safer and more effective. From docking instructions to ordering your next drink.

MOB & PLB alert system

- Peace of mind by automatically monitoring the safety of everyone onboard using X100 and **CONNECT-X** MOB function. MOB or detected PLB events are instantly alerted on the X100 and all connected CONNECT-X devices, which provide clear last location, bearing and approximate distance information.

AIS Class B

- Commercially-certified 5W receive-and-transmit AIS Class B, with an array of features that includes collision and CPA alerts on X100 base and your **CONNECT-X** wireless command-enabled smartphone or watch, vessel lists and details, direct push-to-talk (VHF/DSC) call linkage, and on/off transmit (silent mode).

Engineered for marine life

X100 is engineered to reliably endure continuous operation in the harshest of marine environments: from the arctic to the equator. **No-compromise build quality** and engineering fused with technical performance and convenient functionality.

- Waterproof and internal alloy chassis provides optimal protection

- Direct sun visible wide angle full-colour display

- Tactile easy to locate and use buttons and knobs

- Ergonomic mic with quick controls

- Multiple installation options, including flush mount, desktop or ceiling

- Built to endure, 90kg weight tested strength

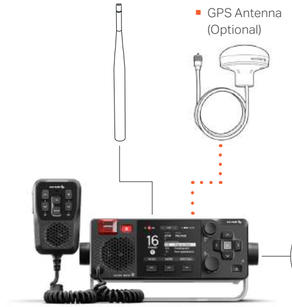
- Audio grills designed for, strength, optimal sound, and water drainage and cleaning

- Zero-loss VHF antenna splitter means only one VHF antenna is required

Complete confidence, wherever you sail. The X100 is supported by the em-trak 3-year International warranty - our gold-standard worldwide coverage designed to give you total peace of mind on every journey.

See our website for full details.
www.em-trak.com

X100 Technical Information



- Internal VHF antenna splitter means X100 only requires one VHF antenna to support AIS and VHF/DSC.
- X100 has an internal GPS antenna. If installed externally or in most cockpit and below deck locations, an external GPS antenna is not required.

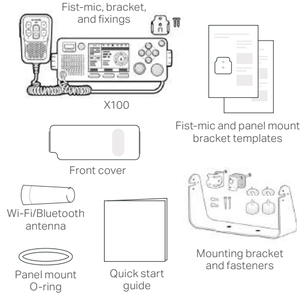
- Tablets & Phones

NMEA2000 & 0183

- Laptops & PCs Nav Apps

- Chartplotters

In the box



Physical specification – base unit

Dimensions	W249mm, H84mm, D162mm
Weight	1.78kg (3.933lb)

General

Voice frequency range:	TX 156.025–161.425 MHz
Voice frequency range:	RX 156.300–161.925 MHz
DSC	156.525 MHz
AIS 1,2	156.300 MHz, 162.025 MHz
VHF transmit power:	Variable up to 25W
AIS Transmit Power:	5W
Usable channels:	INT, USA, CAN, ATIS
Operating temperature range:	-25ºC to +55ºC (5ºF to 131ºF)

Electrical

Power Supply	9.6 – 31.2 V DC
Antenna impedance	50 Ω
Transmitter output power	VHF: 25W, 1W AIS: 5W

Audio

Audio output power – internal speaker	2.2W, 84dB W/m
External speaker/loudhailer	20W

Connectivity

NMEA 0183/NMEA 2000	NMEA 0183 v4 NMEA 2000 V3.000
Wireless LAN standards	IEEE802.11 b/g/n
Authentication and encryption	WEP (64/128 bit), WPA-PSK (TKIP), WPA2-PSK (AES)
Bluetooth	Low energy (BLE)

Certifications

AIS class B SOTDMA	IEC 62287–2:2017
DSC/VHF	ETSI EN 301 025 v2.3.1 ETSI EN 300 698 v2.3.1 IEC 62238:2003
NMEA	IEC 61162-1 & IEC 61162-3
Environmental	IEC 60945 "Exposed" IEC 60529 IPx6 & IPx7

Functionality highlights

USA, Canada, international and ATIS channel mappings
Hi/Low adjustable VHF transmit power
Multi-channel scanning: All | 16 | Custom
Tri-channel watch: Ch16 plus two custom
Quick channel and favourites function
DSC/AIS phone book
Customisable AIS CPA and collision alerts
AIS silent mode (Transmit OFF) customisable timer
DSC safety call/distress call/urgency call
DSC group call: one to many.
AIS target-linked DSC calling.
Anchor watch and alarm
Range adjustable AIS radar display
AIS target radar display and target information
Own GPS position, speed, and course
MoB activation sensitivity adjustment

Your Dealer:

Scan here to learn more about the X100.

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em-trak Marine Electronics is a global leader in professional high performance marine communications and navigation safety electronic equipment. Our equipment is engineered and manufactured in Europe to exacting standards to provide commercial mariners worldwide with robust, fully certified equipment known to endure the rigors and extremes of marine life. All em-trak equipment is backed by a global warranty supported by a network of thousands of dealers and distributors.

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