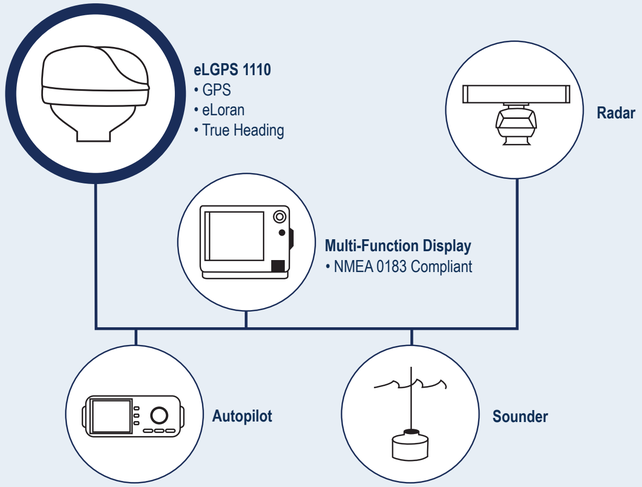
eLGPS 1110 DELIVERS:

- 99.994% RELIABILITY*
- < 2 m ACCURACY
- TRUE HEADING EVEN WHILE STATIONARY
- EASY INSTALLATION

TYPICAL MARINE ELECTRONICS INSTALLATION



*WHEN IN THE COVERAGE OF BOTH GPS AND Loran

eLGPS 1110 SPECS

PERFORMANCE SPECIFICATIONS

Time to First Fix	typically less than 30 seconds
Position Update Rate	1 Hz, configurable
Heading Update Rate	20 Hz ,configurable
Accuracy	<2m*
GPS General	L1 Frequency, C/A Code, 20-Channel DSP Based, WAAS & EGNOS enabled
eLoran General	DSP Based, eLoran enabled, 9th pulse demodulation
Sensitivity	30–120 dB/uV/m
Dynamic Range	90dB
Signal Processing	cross-rate cancellation, beam forming, adaptive digital filtering
ASF	Onboard dynamically accessed tables, real time eLoran corrections
Integration Engine	Kalman filter

PHYSICAL CHARACTERISTICS

Dimensions	7.4" Diameter x 3.9" Tall
Weight (with 25' of cable)	2.75 lbs

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-25 to +55 C
Storage Temperature	-25 to +70 C
Vibration	2-13.2Hz at +/- 1mm, 13.2 - 100 Hz at 7 m/s squared
Operating Humidity	93% at +40 C
Test Specifications	IEC 60945

ELECTRICAL SPECIFICATIONS

Supply Voltage	9–30V DC
Power Consumption	5 W

INTERFACE CHARACTERISTICS

Serial Port	RS-422 (transmit/receive)
Protocols	NMEA 0183
Outputs	Position, SOG, COG, True Heading, UTC
Speed	Up to 115.2kbps
Cable Length	25 ft, 50 ft, 100 ft

ANTENNA

Type (Loran)	Active, Crossed-loop, H-Field
Type (GPS)	Active Ceramic Patch

NMEA SENTENCES

Position	GLL, GGA, RMC
Course Over Ground	VTG, RMC
True Heading	HDT
TD	GLC
Date and Time	ZDA

*System accuracy is greatly influenced by the availability of GPS, WAAS, eLoran signal and 9th pulse. Without all available systems, the accuracy will be diminished.

Specifications subject to change without notice.

CrossRate TECHNOLOGY

DELIVERING PNT FOR SEA, AIR, AND LAND

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CrossRate TECHNOLOGY

ACCURACY
RELIABLE POSITIONING
HEADING
EASY INSTALLATION

FOR SAFETY AT SEA, RELY ON THE SYSTEM THAT DELIVERS THE BEST OF GPS AND eLoran

eLGPS 1110

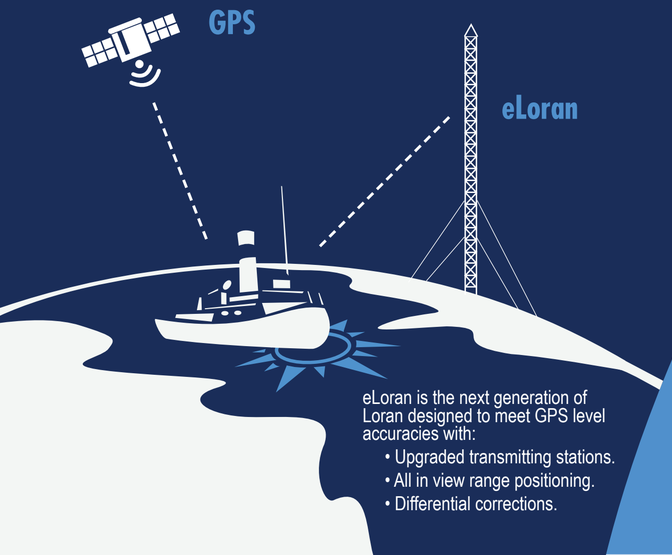
WWW.CROSSRATE.COM

CrossRate TECHNOLOGY

DELIVERING PNT FOR SEA, AIR, AND LAND

CrossRate Technology is committed to improving the systems and technologies you rely on for position, navigation and time. CrossRate's team of engineers has addressed the reliability problems of GPS with a technology advancement that integrates three systems into one. CrossRate understands the importance of reliable, accurate information. For safety and security at sea, look to CrossRate Technology.

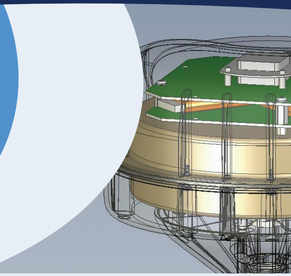
CrossRate Technology engineers and manufactures its products in Maine, USA. Learn more about the eLGPS1110 by visiting www.CrossRate.com or by contacting your marine electronics dealer.



eLoran is the next generation of Loran designed to meet GPS level accuracies with:

- Upgraded transmitting stations.
- All in view range positioning.
- Differential corrections.

CROSSRATE eLGPS1110



The eLGPS1110 provides state of the art accuracy

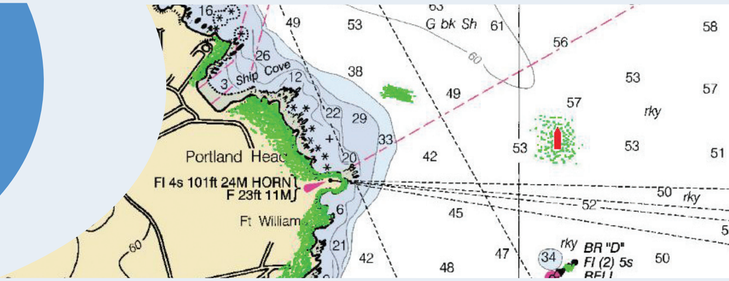
- < 2 m accuracy with integrated receiver
- 20 channel WAAS enabled GPS
- eLoran data channel capable

ACCURACY

By combining GPS with eLoran, the eLGPS1110 is the most reliable positioning receiver on the market

- Patent pending I^2E integration technology combines the two positioning sensors using Kalman integration technology
- GPS is a low power high frequency signal broadcast from a satellite constellation
- eLoran is a high power low frequency signal broadcast from terrestrial transmitters
- I^2E monitors the integrity of the GPS constellation and the eLoran system

RELIABILITY



eLGPS 1110 outputs true heading, even while stationary, for radar overlay and autopilot

- Better than 1° heading accuracy
- High speed heading output for autopilot systems
- Heading derived from relative bearing off one or multiple Loran transmitters*

*Heading output requires Loran coverage which includes the entire US and up to 200 nautical miles off shore and international Loran coverage areas.

HEADING

With three systems in one receiver, the eLGPS1110 simplifies installation of critical navigation hardware

- Pole or flush mount hardware included
- NMEA 0183 standard sentences for position, velocity, heading and TDs if desired
- PC based configuration software
- Single cable with power in, data out configuration

EASY INSTALLATION