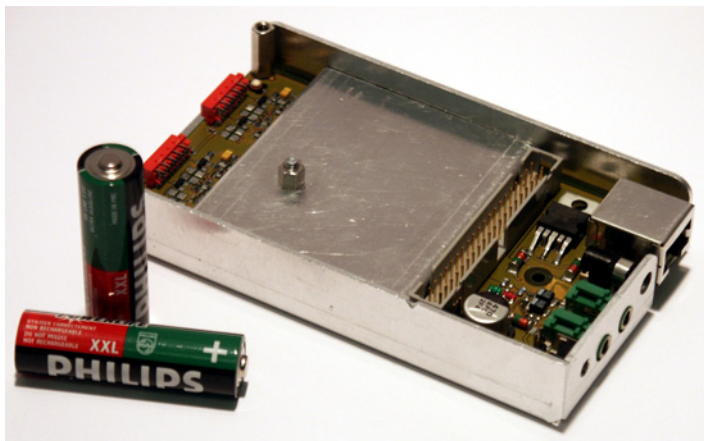


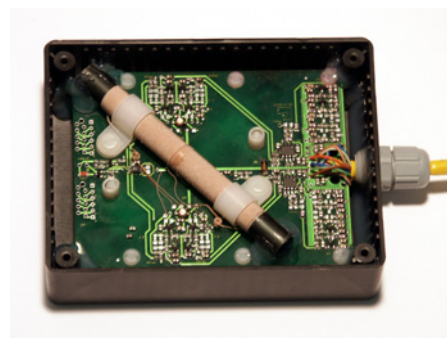
TEConcept DE 8100

The new generation of
Loran-C receivers-modules

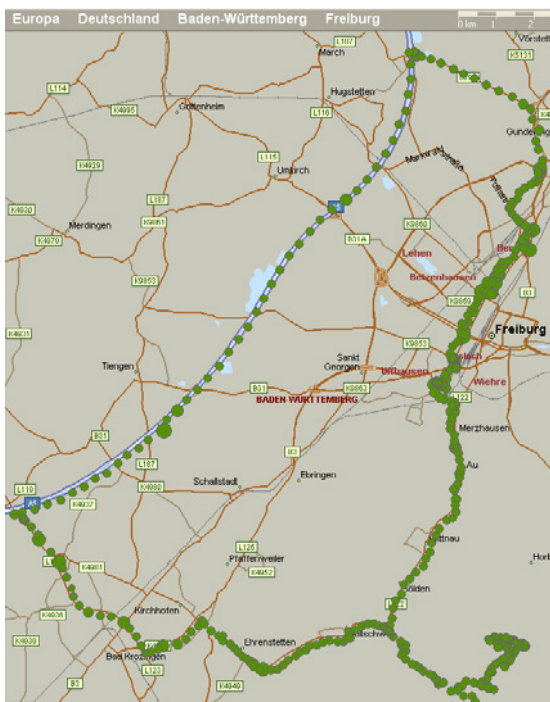
TEC GmbH
Concept



OEM Loran-board



H-Field antenna



Testdrive around Freiburg (by car)

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By linking the latest DSP-based technologies with a completely new development approach focused on an optimal combination of high performance and low cost, we have developed a new generation of Loran-C receivers: modular, low power requirements and small dimensions. Thus, it is the ideal navigational receiver for mobile operations.

The receiver is capable to choose the best available transmitters and all other necessary settings fully automatic; however, many settings can also be adjusted manually for special applications.

Due to the modular design of the *DE 8100*, it can easily be combined with a satellite receiver (GPS, Galileo) simply by adding a daughter board or by an application controller. TEConcept offers engineering support for the development of tailored applications.

With its high production standards and the possibility of software updates, the *DE 8100* is the right choice for navigational backup or augmentation solutions.

Product description

- Receiver**
- *Tracks up to 10 stations*
 - *Typical 20s time to first fix*
 - *Averaging time from 1-20s for desired accuracy*
 - *Repeatable accuracy typically 5-15m*
 - *Position accuracy information (SNR, HDOP)*
 - *Automatic transmitter selection*
 - *Automatic skywave compensation*
 - *Automatic noise cancellation*
 - *ASF-factor calibration (manually or PC-based)*
 - *Navigation even with weak signal strength (also indoors)*
 - *Stationary compass function (with H-field antenna)*
 - *Transmitter synchronized clock output*
 - *Acoustic interference indication*
 - *Power management*
 - *Antenna cable length up to 40 meter*
 - *Real time signal recording with PC*
 - *PC based monitoring tools*
 - *Firmware upgradeable via RS232*
- Power**
- *External: 3.5 -15 Volt DC, 120 mA*
 - *Batteries: 4 AA cells*
- Physical**
- *Dimensions: 123 x 68 x 21mm (4,84 x 2,68 x 0,83 inches)*
 - *Weight: ca. 200g*
- Communications**
- *Output: RS232, analog line out*
 - *Data messages: TDs, latitude, longitude, SNR, Transmitters, NMEA 0183, faked GPS NMEA*
- Enviromental**
- *Operating temperature: -25°C to 70°C*
 - *Storage temperature: -40°C to 85°C*
 - *Humidity: to 95% non-condensing*
- Options**
- *Active H-field antenna (10 mA)*
 - *Active E-field antenna (available soon)*
 - *GPS daughterboard*
 - *Display and keypad*