

3710 DGNSS Receiver



KONGSBERG



DGNSS receiver

The 3710 DGNSS Receiver is a high-performance DGNSS receiver capable of receiving augmentation data from the Fugro Norway AS worldwide DGNSS Service. The Fugro service is a full-time differential GNSS (DGNSS) broadcast system delivering differential corrections from an array of GNSS reference stations located around the globe. These services include independent sub-decimetre level services (Seastar G4/G2 and Seastar XP2), centimetre level services (Seastar G2+/G4+) and sub-metre level services (Seastar StdL1).

Enhanced availability

The 3710 DGNSS Receiver gives you an unmatched availability in challenging environments where the use of differential corrections is vital for an efficient operation. The 3710 DGNSS Receiver offers reception from both internet and satellites simultaneously. It has the unique capability of simultaneously receiving and outputting data from up to three sources (two satellite links and one internet link). The signals are received via the DGNSS antenna and by internet. After selection of the desired broadcast source, the signals are made available as corrections for use in a GNSS differential capable receiver.

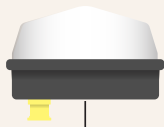
DGNSS processing

The 3710 DGNSS Receiver comprises a software defined radio (SDR) signal processing core with advanced algorithms and true parallel processing of up to two DGNSS satellite signals and one DGNSS Ethernet signal (NTRIP format) simultaneously. DGNSS corrections from different sources are combined by the unique multiplexing capability.

FEATURES

- Fugro Seastar® XP/XP2/G2/G2+/G4/G4+/StdL1 capability
- Configurable output for external interfaces
- Integrated 2-line LCD display and keypad for system configuration and status
- Easy software updates via USB
- Ethernet interface
- Serial interface

DGNSS antenna



Receiver Unit



Technical specifications

3710 DGNSS Receiver

Weights and dimensions

Receiver Unit

Dimensions	44 × 485 × 350 mm (1U)
Weight	3.0 kg

DGNSS antenna

Dimensions	91 × 152 mm
Weight	1.4 kg
Connector type	N-female

Power specifications

Receiver Unit

Voltage	100 - 240 VAC 50/60 Hz
Power consumption	Max 25 W
DGNSS antenna	12 VDC from Receiver Unit

External interfaces

Serial port	1 serial port, RS-232 or RS-422
Baud rate	115 200 bytes/sec
Ethernet/LAN	1
USB	1

Data outputs

Message format	Multiplexed (MUX) correction format
Message type	Multiplexed correction data output with status

Radio frequencies

DGNSS antenna	1539 - 1560 MHz
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Environmental specifications

Receiver Unit

Enclosure material	Aluminium
Operating temperature	-15 °C - +55 °C
Storage temperature	-20 °C - +70 °C
Operating humidity	Max. 95 % non-condensing
Storage humidity	Less than 55 %
Ingress protection front	IP 42
Ingress protection rear/side	IP 22

DGNSS antenna

Enclosure material	Polyurethane coated fibreglass
Operating temperature	-45 °C - +70 °C
Ingress protection	IP67

Mechanical

Vibration	IEC 60945/EN 60945
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Electromagnetic compatibility

Compliance to EMCD, immunity/emission	IEC 60945/EN 60945
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Product safety

Compliance to LVD	IEC 61010-1/EN 61010-1
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Specifications subject to change without any further notice.