HEXAGON
POSITIONING INTELLIGENCE

veripos

LD6 INTEGRATED MOBILE UNIT

RELIABLE POSITIONING UNIT

The VERIPOS LD6 is a comprehensive and powerful integrated mobile unit that can be configured to accommodate the full range of VERIPOS solutions.

As a fully integrated mobile unit, the LD6 can receive VERIPOS services through the L-Band demodulator. The LD6 is configured with a multi-constellation GNSS receiver, as well as optional reception module to receive corrections from MF IALA marine beacon service and UHF correction sources. All information is available for output to external equipment and software for processing. The LD6 is suitable for a wide range of applications including hydrographic/ offshore surveying, dredging, offshore construction, seismic exploration and dynamic positioning. The modular design increases flexibility and simplifies the integration of new OEM hardware, allowing the LD6 to be upgraded offshore.

LD6 FEATURES

A colour touch-screen interface makes set-up quick and easy for system configuration and for LD6 status monitoring. The LD6 is capable of tracking all GNSS constellations and can support a GNSS heading solution. It can also receive augmentation data using a dedicated VERIPOS L-Band receiver.

A powerful onboard processor has the ability to run VERIPOS positioning algorithms and applications. The system can run the Quantum software applications which can be observed via a monitor attached to the LD6.

A solid-state hard disk provides raw data storage for post-processing and support. Fourteen galvanically isolated serial ports can be configured for either RS232 or RS422 output. Data is also available through dual independent Ethernet ports to allow operation on a LAN.

TECHNICAL SPECIFICATIONS

Physical Characteristics

Receiver Size: 2 U rack mountable x 46 cm depth
Weight: Less than 10 kg
Display: 8.89 cm colour VGA touch-screen LCD display
Operating Temp: -15°C to 55°C
Storage Temp: -20°C to 70°C
Input Voltage: 100 to 240 V AC or 12 to 24 V DC
Consumption: Less than 65 W

Onboard ETX Express PC

1.6 GHz ATOM processor
1 GB SDRAM, upgradeable to 2 GB
32 GB solid-state hard drive
Windows Embedded XP operating system

Data Ports and Interfaces

- 6 USB Ports – Type-A connector (USB 2.0)
- Dual independent Ethernet ports
- 14 EIA 232/422 galvanic isolated ports with RJ45 connection
- VGA monitor port for external monitor
- Audio line output (max 17.5 dBu)
- 1 PPS and event marker (GNSS card must be installed)

GNSS Based Heading Solution
0.08 deg accuracy @ 2 m separation
0.05 deg accuracy @ 4 m separation

VERIPOS L-Band Demodulator

Frequency input 1525 to 1559 MHz

GNSS Options

Constellations: GPS, GLONASS, BeiDou, Galileo and QZSS
GNSS Based Heading Solution
0.08 deg accuracy @ 2 m separation
0.05 deg accuracy @ 4 m separation

MF (IALA) Receiver

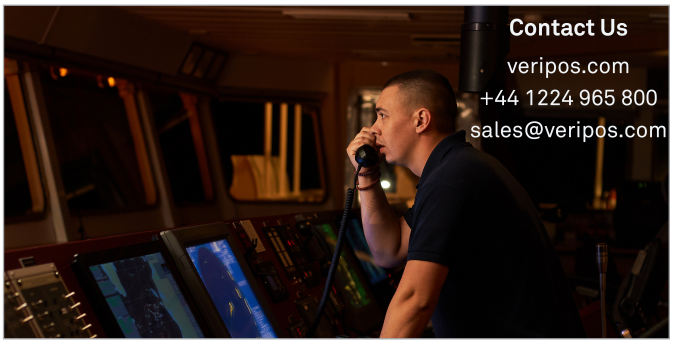
Dual Channel SBX-4

UHF Receiver

Pacific Crest UHF receiver
Frequency 390 to 430 MHz and 430 to 470 MHz options available

The LD6 Integrated Mobile Unit VGA touch-screen LCD display.

The LD6 Integrated Mobile Unit data ports.



Regulatory and Environmental

CE Marking Directive 93/68/EEC
FCC Parts 15 [14] Class B
Marine Equipment Directive
EN60945:2002 (Protected Equipment)
EU RoHS Directive 2011/65/EU
EU WEEE Directive 2002/96/EC

**SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE*

ABOUT VERIPOS

VERIPOS is a global technology leader, pioneering end-to-end solutions for assured positioning for for the offshore marine oil and gas industry. VERIPOS is part of Hexagon's Positioning Intelligence division. Learn more at veripos.com.

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