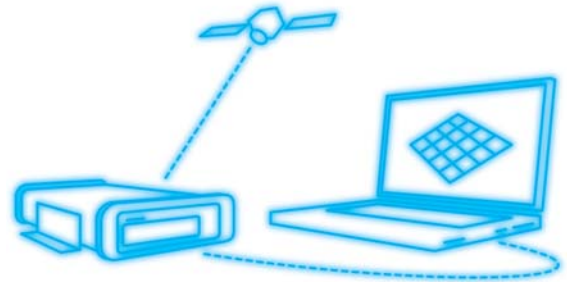


Positioning for Success

LD2 Integrated Mobile Unit



Veripos specialise in providing robust data broadcast services for precise positioning applications. For optimum performance it is essential that receiving and processing hardware is of an equally high standard.

To ensure this, Veripos offers a range of hardware designed and manufactured to the highest specifications, and with relevant international certifications.

The LD2 is Veripos' latest offering and is designed to achieve our product philosophy, which is standardised, upgradeable hardware with maximum flexibility whilst simple to operate and maintain.

The LD2 is available in a number of configurations from basic satellite receiver to a fully integrated mobile positioning unit with demodulator and multi-frequency GNSS receiver. Completely modular, the unit can be upgraded to different configurations as required.

Functionally the LD2 can be used in a virtual 'black box' mode to generate any Veripos proprietary position solution, depending upon which data subscriptions are enabled. Additionally it can be used as a sensor that outputs received data and GNSS measurements to external processing or quality control software such as Veripos' Verify QC suite.



Positioning for Success
LD2 Integrated Mobile Unit



Technical Specifications

Physical Characteristics

Receiver Size: 19in rack mount x 1Uheight x 32cm depth
 Weight: 5 kg
 Display: 2 line x 20 character back lit LCD display
 Operating temp: 0 to 55 degC
 Input voltage: 90 to 265vAC
 Consumption: 20W

Demodulator

1525 to 1559 MHz input from new L-Band Antenna or tapped L-Band output from Inmarsat B terminals.

Optional 63 to 83.5 MHz input from Minidome or Inmarsat.

Acquisition time from switch on typically <20 seconds

Re-acquisition time typically <10 seconds

HF Demodulator options

2 x channel HF demodulator (1.6-3.5MHz)

Output in RTCM

Compatible with Veripos Standard HF

Data interfaces

6 RS232 ports: RTCM Out Primary, RTCM Out Secondary, NMEA Out/External RTCM In, GPS I/O, Remote Control I/O, Message Out. Connections for optional ext mouse, keyboard and VGA monitor.

PC/104 board

300 MHz Geode processor, 64Mb SDRAM, 64Mb Flash

GPS options

Thales/Ashtech G12 12 channel L1 C/A code and carrier. Up to 20 Hz update.

Thales Navigation DG14 12 channel L1 C/A code and carrier + 2

WAAS/EGNOS channels. Up to 20 Hz update.

Thales/Ashtech Z-Eurocard 36 channel L1 C/A, L1 P and L2 P code and carrier. Up to 10Hz raw data output. 1PPS

Thales/Ashtech Gg24 24 channel GPS L1 + Glonass code and carrier. Up to 5Hz update.

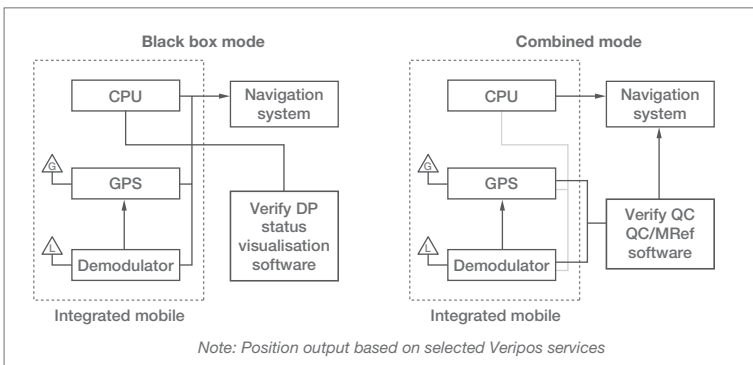
Topcon Euro 112T GPS L1 + L2 + Glonass. Update up to 20Hz, 1PPS

GNSS Sensor	Demodulator		
	Satellite	HF	Satellite & HF
L1 GPS	✓	✓	✓
L1/L2 GPS	✓	✓	✓
L1 GPS + Glonass	✓	✓	✓
L1/L2 GPS + Glonass	✓	✓	✓

A small LCD display and keypad allow for quick and easy user setup and in addition to calculating position the LD2 is able to output all received data in standard formats such as RTCM. The LD2 is exceptionally flexible and overall operating status can be determined via a bank of LED indicators or its LCD display. For more comprehensive status indication a monitor can be connected directly to the unit, which will reveal Verify DP, a graphical presentation of unit performance and status optimised for DP operations.

The LD2 can be used with both Veripos high and low-power satellite transmissions. When used with high-power services a compact high-gain omni-direction antenna is required, whilst for low-power operation a suitable stabilised dish antenna, such as that used on vessels for communicating via Inmarsat, is needed. A special interfacing kit can be supplied in this case.

Advanced yet robust, and easy to install and operate, the Veripos LD2 is an outstandingly effective and flexible unit that ensures reliable reception of Veripos services, as well as producing superior positioning from metre to decimetre level accuracy.



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