

GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) HEADING

GNSS Heading Veripos LD8 merupakan alat penentuan posisi 3D (tiga dimensi) teliti dan arah (heading) dari kapal survei. GNSS Heading Veripos LD8 mampu menghasilkan posisi dengan ketelitian sub desimeter jika menerima sinyal koreksi sistem Real Time Kinematik (RTK) dan ketelitian heading hingga 0.1°, sehingga sangat cocok untuk aplikasi survei di laut.

Merek Alat:

Veripos LD8

Kelengkapan:

- 2x Antenna
- Receiver and Control Unit
- 2x Antenna Cable
- 2x Antenna cable adapter TNC to SMA
- Squid Cable serial DB9 with D26 Connector
- Power Supply DC
- LAN Cable
- Suitcase

Fungsi:

- Positioning and heading for Marine Navigation

SPECIFICATIONS

Performance

Channel configuration	555 Channels
Signal tracking	
Primary RF	
GPS	L1 C/A, L1C, L2C, L2P, L5
GLONASS3	L1 C/A, L2 C/A, L2P, L3, L5
BeiDou	B1, B2
Galileo	E1, E5 AltBOC, E5a, E5b
SBAS	L1, L5
QZSS	L1 C/A, L1C, L2C, L5
L-band (Primary RF only) up to 5 channels	

Secondary RF

GPS	L1 C/A, L1C, L2C, L2P, L5
GLONASS3	L1 C/A, L2 C/A, L2P, L3, L5
Galileo	E1, E5 AltBOC, E5a, E5b
BeiDou	B1I, B1C, B2I, B2a
QZSS	L1 C/A, L1C, L2C, L5

Horizontal position accuracy (RMS)

Single Point L1	1.5 m
Single Point L1/L2	1.2 m
SBAS	1 m
VERIPOS DGNSS	1 m
VERIPOS PPP	5 cm
RTK	1 cm + 1 ppm
Initialization time	< 10 s
Initialization reliability	> 99.9%

Maximum data rate

Measurements	up to 20 Hz
Position	up to 20 Hz

Time to first fix

Cold start	< 39 s (typ)
Hot start	< 20 s (typ)

Signal reacquisition

L1	< 0.5 s (typ)
L2/L5	< 1.0 s (typ)
Time accuracy	20 ns RMS
Velocity accuracy	0.03 m/s RMS
Velocity limit	515 m/s

Align GNSS heading accuracy

Baseline	Accuracy (RMS)
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2 m	0.08 degrees
4 m	0.05 degrees

Communication ports

1 RS-232	up to 460,800 bps
2 RS-232/RS-422 selectable	up to 460,800 bps
1 USB 2.0 (device)	HS
1 USB 2.0 (host)	HS
1 Ethernet	10/100 Mbps
1 Pulse Per Second output	

Physical and electrical

Dimensions	147 x 125 x 55 mm
Weight	500 g
Power	
Power consumption	6 W
Input voltage	+9 to +36 VDC

2 Antenna LNA power outputs

Output voltage	5 VDC \pm 5%
Maximum current	200 mA

Connectors

2 Antenna	SMA
USB device	Micro A/B
USB Host	Micro A/B
Serial, PPS DSUB HD26	
Ethernet	RJ45
Power	SAL M12, 5 pin, male

Status LEDs

Power
GNSS
INS
Data Logging
USB

Environmental

Temperature

Operating -40°C to +75°C

Storage -40°C to +85°C

Humidity 95% non-condensing, ,EN60945

Ingress protection rating IP67

Vibration (operating)

Random MIL-STD-810 H

Method 514.6 (Cat24 24, 20 g RMS)

Sinusoidal IEC 60068-2-6

Acceleration (operating)

MIL-STD-810G, Method 513.6

Procedure II (16g)

Bump IEC 60068-2-27 (25g)

Shock (non-operating) MIL-STD-810G, 516.6,

Procedure 1, 40 g 11 ms terminal sawtooth

Compliance Industry Canada, FCC,

CE, UKCA, RoHS, WEEE, EN60945 (Protected Equipment), EN60950, EN62368, EN62479

Features

- NovAtel® OEM7® marine positioning engine
- 16GB of internal storage for rolling data logging and incident support
- Support for logging to external USB storage device
- Built in WiFi support
- WebUI
- OGP 373-19 and IMCA S015 (July 2011) QC compliant

Veripos LD8

