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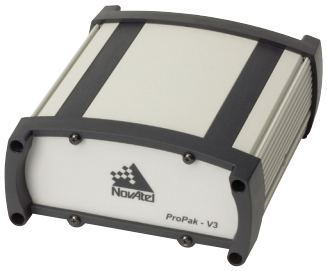
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Find the *Hexagon / Novatel ProPak-V3-424-L1L2* at our website: *Click HERE*

ProPak-V3™



Durable, High-Performance GNSS Enclosure Delivers Advanced Positioning Capabilities

Benefits

Easy access to serial and USB ports simplifies integration

Sub-metre accuracy without need for extra hardware

Reliable, proven OEMV® technology

Enhanced performance and accuracy with GLONASS and SPAN™

Features

Robust, reliable AdVance® RTK performance

Supports peripheral devices [such as IMUs]

3 high-speed serial ports and USB 1.1

Integrated OmniSTAR® capability

GPS+GLONASS Capabilities

The ProPak-V3 enclosure offers L1 and L2 GPS-only or GPS+GLONASS positions and measurements in real time. The ability to track the satellites of the GLONASS constellation grants greater position availability and provides industries that rely on GNSS technology increased productivity.

NovAtel's World-Class OEMV Performance

NovAtel's OEMV-3® receiver drives the ProPak-V3's performance. The ProPak-V3 features integrated L-band corrections from geostationary satellite systems such as OmniSTAR and is capable of tracking the GPS L5 signal. Made of durable materials, the ProPak® enclosure delivers accurate and precise positions even in harsh environments with extreme EMI conditions.

Advanced Capabilities

The ProPak-V3 offers 72 channels, L1 and L2 GPS+GLONASS, a USB interface and SPAN capabilities. A NovAtel SPAN system links the ProPak-V3 via cable to an IMU, creating a powerful 3D position, velocity and attitude solution that is stable and continuously available, even during periods when satellite signals are completely blocked.

If you require more information about our enclosures, visit novatel.com/products/gnss-receivers/enclosures

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SE Asia and Australia 61-400-833-601

ProPak-V3

Performance[1]

Channel Configuration
72 Channels
Signal Tracking

GPS	14 L1, 14 L2, 6 L5
GLONASS	12 L1, 12 L2
SBAS	12 L1, 12 L2
L-band	1

Horizontal Position Accuracy (RMS)

Single Point L1	1.5 m
Single Point L1/L2	1.2 m
SBAS[2]	0.6 m
DGPS	0.4 m
OmniSTAR[2]	
VBS	0.6 m
XP	0.15 m
HP	0.1 m
RT-20®[3]	0.2 m
RT-2™	1 cm+1 ppm

Measurement Precision

	GPS	GLO
L1 C/A Code	4 cm	15 cm
L1 Carrier Phase	0.5 mm	1.5 mm
L2 P(Y) Code	8 cm	8 cm
L2 Carrier Phase	1.0 mm	1.5 mm

Data Rate[4]

Measurements	50 Hz
Position	50 Hz
OmniSTAR HP/XP	20 Hz

Time to First Fix

Cold Start[5]	60 s
Hot Start[6]	35 s

Signal Reacquisition

L1	0.5 s (typical)
L2	1.0 s (typical)

Time Accuracy[7] 20 ns RMS

Velocity Accuracy 0.03 m/s RMS

Dynamics

Velocity[8]	515 m/s
Vibration	4 G (sustained tracking)

Physical and Electrical

Dimensions 185 x 160 x 71 mm

Weight 1.0 kg

Power

Input Voltage[9]	+9 to +18 VDC
Power Consumption	2.8 W (typical)[10]

Antenna Port Power Output

Output Voltage	+5 VDC
Maximum Current	100 mA

Connectors

Power	4-pin LEMO
Antenna Input	TNC female
External Oscillator	BNC female
COM1	DB9 male
COM2	DB9 male
AUX (COM3)	DB9 male
I/O	DB9 female

Communication Ports

2 RS-232 or RS-422
1 RS-232 serial port
1 USB 1.1 port

Environmental

Temperature

Operating	-40°C to +75°C
Storage	-45°C to +95°C

Humidity 95% non-condensing

Waterproof IEC 60529 IPX7

Dust IEC 60529 IP6X

Vibration (operating)

Random	MIL-STD-810F, 514.5
Sinusoidal	SAE J1211 4.7

Shock (non-operating) IEC 68-2-27 Ea

Compliance FCC, CE

Included Accessories

- Automotive 12 VDC power adapter with 3A slow-blow fuse
- Mounting bracket
- Straight serial cable
- Null-modem cable
- I/O interface cable
- USB cable

Optional Accessories

- GPS-700 series antennas
- ANT series antennas
- RF Cables—5, 10 and 30 m lengths
- AC adapters—International and North American

Features

- Multiple software models, including L1 GPS or GLONASS, L1/L2 GPS + GLONASS, and carrier-phase positioning
- Auxiliary strobe signals, including a configurable PPS output and two mark inputs
- Field-upgradeable firmware
- Supports RTCM SC-104 version 3.0, CMR version 3.0, CMR+, NMEA 0183 version 3.01, and RTCA DO-217 message types
- Application Programming Interface (API)

Firmware Options

- RT-20
- ALIGN®
- GL1DE®
- OmniSTAR HP, XP, VBS, G2
- L5 signal tracking
- Pseudo Range/Delta-Phase (PDP) Positioning

NovAtel

Version 5 -Specifications subject to change without notice.

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For the most recent details of this product:
novatel.com/assets/Documents/Papers/ProPakV3.pdf

[1] Typical values. Performance specifications subject to GPS system characteristics, US DOD operational degradation, ionospheric and tropospheric conditions, satellite geometry, baseline length, multipath effects and the presence of intentional or unintentional interference sources.
[2] GPS-only.
[3] Expected accuracy after static convergence.
[4] Slower data rates are expected for API customers. The maximum data rate is dependent on the size of the application.
[5] Typical value. No almanac or ephemerides and no approximate position or time.
[6] Typical value. Almanac and recent ephemerides saved and approximate position and time entered.
[7] Time accuracy does not include biases due to RF or antenna delay.
[8] Export licensing restricts operation to a maximum 515 metres per second.
[9] While operating without an external IMU, the ProPak-V3 can accept an input voltage between +6 and +18 VDC.
[10] When running a GPS-only model.

RoHS COMPLIANT
ISO 9001:2000 FM 92323

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