**Enclosures**

**DL-V3™**

Flexible GNSS Receiver with Enhanced Connectivity
Ideal for Base Station and Rover Applications

---

**Benefits**

Extra hardware not required for sub-metre accuracy

Connectivity options ease integration

Positioning enhanced with increased signal availability

Excellent data security and portability

**Features**

Robust, reliable RTK performance

Serial, Ethernet, USB and Bluetooth® capable

Integrated support for OmniSTAR®

Removable Compact Flash card

---

**GPS+GLONASS**

The DL-V3 features GPS-only or GPS+GLONASS functionality providing maximum flexibility and enhanced positioning in challenging environments. It is also capable of tracking GPS L2C and L5.

**NovAtel’s World-Class OEMV® Performance**

NovAtel’s OEMV-3® receiver drives the DL-V3’s precision performance. For high-precision applications, NovAtel’s RT-20® and RT-2™ AdVance® RTK options provide real-time centimetre-level positions at a rate of up to 50 Hz. For sub-metre positioning, the DL-V3 is capable of receiving OmniSTAR L-band correction services.

**Flexible Functionality and System Design**

The DL-V3 provides numerous interfaces beyond the serial stand. Bluetooth® is available for close-in wireless connectivity, while Ethernet is available for remote network-based access to your receiver. Highly visible colored LEDs indicate receiver status at a glance. A removable Compact Flash card provides combined storage for up to two GB of logged data and the added convenience of data portability.

---

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

---

**novatel.com**

sales@novatel.com

1-800-NOVATEL (U.S. and Canada)

or 403-295-4900

China 0086-21-54452990-8011

Europe 44-1993-848-736

SE Asia and Australia 61-400-833-601
## Performance

### Channel Configuration
- 72 Channels

### Signal Tracking
- GPS: 14 L1, 14 L2, 6 L5
- GLONASS: 12 L1, 12 L2
- SBAS: 2
- L-band: 1

### Horizontal Position Accuracy (RMS)
- Single Point L1: 1.5 m
- Single Point L1/L2: 1.2 m
- SBAS: 0.6 m
- DGPS: 0.4 m
- OmniSTAR: 0.6 m

### Communication Ports
- 3 RS-232 serial ports
- 1 Bluetooth® port
- 1 Ethernet capable port
- 1 USB 1.1 port, USB device only

## Physical and Electrical

### Dimensions
- 185 x 162 x 76 mm

### Weight
- 1.3 kg

### Power
- Input Voltage: +9 to +28 VDC
- Power Consumption: 3.5 W (typical)

### 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: DB9 male
- I/O: DB9 female
- Ethernet: RJ-45
- USB: Type B

## Environmental

### Temperature
- Operating: -40°C to +75°C
- Storage: -50°C to +95°C

### Humidity
- 95% non-condensing

### Waterfront
- IEC 60529 IPX7

### Dust
- IEC 60529 IP6X

### Vibration (operating)
- Random: MIL-STD-810F, 514.5, Procedure 1
- Sinusoidal: IEC 68-2-6

### Shock
- IEC 68-2-27

### Compliance
- FCC, CE, Industry Canada

## Included Accessories
- Automotive 12 VDC power cable
- Mounting bracket
- Serial cable
- Null-modem cable
- I/O interface cable
- Compact Flash

## Optional Accessories
- GPS-700 series antennas
- ANT series antennas
- RF Cables—5, 15 and 30 m lengths
- AC adapters—International and North American

## Features
- Multiple software models, including L1 and L1/L2 GPS or GPS+ GLONASS and carrier phase positioning with RT-20 or RT-2 options
- Auxiliary strobe signals including a configurable PPS output and two mark inputs
- Supports RTCM SC-104 version 3.0, CMR version 3.0, CMR+, NMEA 0183 version 3.01, and RTCA DO-217 message types
- Field-upgradeable firmware

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