NovAtel’s family of GNSS receivers sets the standard in positioning performance, features and ease of integration.

We begin with a flexible, customer-focused approach to ensure you choose the OEM precision receiver best suited to your application.

Our products are designed to provide unsurpassed positioning performance and to optimize your investment. A standardized platform, multi-constellation tracking and user-configurable and upgradable firmware means the NovAtel products you choose today will meet your needs well into the future.

Feature rich, our GNSS cards deliver signal modernization, Pulse Aperture Correlation (PAC) multipath mitigation, and integrated L-Band. Innovative firmware such as ALIGN™ heading, GLIDE™ smoothing and NovAtel CORRECT™ positioning will keep you in the lead. An Application Programming Interface (API) and a common user interface are standard.

For comprehensive receiver information, visit www.novatel.com/receivers

NovAtel is an Original Equipment Manufacturer (OEM) that designs, manufactures and sells high-precision Global Navigation Satellite System (GNSS) positioning technology.

Developed for efficient and rapid integration, our GNSS products have set the standard in quality and performance for over 20 years. State-of-the-art, lean manufacturing facilities in our North American headquarters produce the industry’s most extensive line of OEM receivers, antennas and subsystems. All of our products are backed by a team of highly skilled customer support and design engineers, ready to answer all your integration questions. For unsurpassed quality, product selection and precise engineering know-how, choose NovAtel.

To learn more, visit www.novatel.com

sales@novatel.com

1-800-NOVATEL (US & Canada) or 403-295-4900

China 0086-21-54452990-8011

Europe 44-1993-848-736

SE Asia & Australia 61-400-883-601

For comprehensive receiver information, visit www.novatel.com/receivers

Version 17 Specifications subject to change without notice.

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NovAtel GNSS Receivers

**OEM6® Series**

Powerful, next generation receiver family tracks existing and upcoming signals, making this series future proof. The OEM6 series is designed for product quality and ease of integration.

### OEM615™

Smaller than the size of a business card, the OEM615 features high performance GNSS positioning with low power consumption.

- **POSING ACCURACY (LEVEL)**
  - Sub-Metre (RMS)
    - 1.5 m
  - Sub-Centimetre (RMS)
    - 1 cm + 1 ppm

- **OPTIONS**
  - Metre (RMS)
  - Sub-Metre (RMS)
  - Centimetre (RMS)

- **SIGNAL TRACKING**
  - GPS
  - GLONASS
  - Galileo
  - BeiDou
  - SBAS

- **INTERFACES**
  - Serial Ports
  - USB Ports
  - CAN Ports
  - Ethernet
  - Memory

- **Maximum Data Rate**: 50 Hz
- **Input Voltage**: +3.3 VDC [±5%]
- **Power Consumption**: < 1.0 W
- **Size**: 46 × 71 × 11 mm
- **Weight**: <24 g

### OEM617™

Small form factor, the OEM617 features high performance GNSS positioning with low power consumption.

- **POSING ACCURACY (LEVEL)**
  - 1.5 m
  - 1.2 m
  - 0.6 m
  - 0.4 m

- **OPTIONS**
  - Metre (RMS)
  - Sub-Metre (RMS)
  - Centimetre (RMS)

- **SIGNAL TRACKING**
  - GPS
  - GLONASS
  - Galileo
  - BeiDou
  - SBAS

- **INTERFACES**
  - Serial Ports
  - USB Ports
  - CAN Ports
  - Ethernet
  - Memory

- **Number of Channels**: 120
- **Max. Data Rate**: 3 Hz
- **Input Voltage**: +3.3 V [±5%/-3%]
- **Power Consumption**: < 1.0 W
- **Size**: 46 × 71 × 11 mm
- **Weight**: <24 g

### OEM617D™

Compact, dual-antenna, dual-frequency GNSS receiver delivers robust RTK functionality and ALIGN heading capability on a single receiver card.

- **POSING ACCURACY (LEVEL)**
  - 1.5 m
  - 1.2 m
  - 0.6 m
  - 0.4 m

- **OPTIONS**
  - Metre (RMS)
  - Sub-Metre (RMS)
  - Centimetre (RMS)

- **SIGNAL TRACKING**
  - GPS
  - GLONASS
  - Galileo
  - BeiDou
  - SBAS

- **INTERFACES**
  - Serial Ports
  - USB Ports
  - CAN Ports
  - Ethernet
  - Memory

- **Number of Channels**: 120
- **Max. Data Rate**: 20 Hz
- **Input Voltage**: +3.3 V [±5%/-3%]
- **Power Consumption**: < 2.0 W
- **Size**: 46 × 71 × 11 mm
- **Weight**: <24 g

### OEM628™

Features 100 Hz data rate for high dynamic positioning applications. Form factor and interface compatible replacement for NovAtel's OEMV-2 GNSS receiver.

- **POSING ACCURACY (LEVEL)**
  - 1.5 m
  - 1.2 m
  - 0.6 m
  - 0.4 m
  - 1 cm + 1 ppm
  - L1, L2, L2C, L5

- **OPTIONS**
  - Metre (RMS)
  - Sub-Metre (RMS)
  - Centimetre (RMS)

- **SIGNAL TRACKING**
  - GPS
  - GLONASS
  - Galileo
  - BeiDou
  - SBAS

- **INTERFACES**
  - Serial Ports
  - USB Ports
  - CAN Ports
  - Ethernet
  - Memory

- **Number of Channels**: 60
- **Max. Data Rate**: 100 Hz
- **Input Voltage**: +3.3 VDC [±5%]
- **Power Consumption**: 1.3 W
- **Size**: 46 × 71 × 11 mm
- **Weight**: <24 g

### OEM638™

The OEM638, NovAtel's most advanced receiver, provides 240 channels, comprehensive tracking and positioning with all current and planned GNSS signals, robust interference rejection, a powerful API, 4 GB onboard data storage, input voltage range and a host of interface options. Form factor and interface compatible replacement for NovAtel's OEMV-3 GNSS receiver.

- **POSING ACCURACY (LEVEL)**
  - 1.5 m
  - 1.2 m
  - 0.6 m
  - 0.4 m
  - 4 cm

- **OPTIONS**
  - Metre (RMS)
  - Sub-Metre (RMS)
  - Centimetre (RMS)

- **SIGNAL TRACKING**
  - GPS
  - GLONASS
  - Galileo
  - BeiDou
  - SBAS

- **INTERFACES**
  - Serial Ports
  - USB Ports
  - CAN Ports
  - Ethernet
  - Memory
  - Power Consumption

- **Number of Channels**: 240
- **Max. Data Rate**: 100 Hz
- **Input Voltage**: 4.5 - 36 VDC, +3.3 V [±5%/-3%]
- **Power Consumption**: 2.8 W
- **Size**: 85 × 125 × 14.3 mm
- **Weight**: 84 g

### OEMStar®

NovAtel’s lowest cost, high performance L1 GNSS receiver. Easy to integrate, the OEMStar® offers superior carrier phase tracking and positioning performance and is our lowest power consumption precision receiver.

- **POSING ACCURACY (LEVEL)**
  - 1.5 m
  - 1.2 m
  - 0.6 m
  - 0.4 m

- **OPTIONS**
  - Metre (RMS)
  - Sub-Metre (RMS)
  - Centimetre (RMS)

- **SIGNAL TRACKING**
  - GPS
  - GLONASS
  - SBAS

- **INTERFACES**
  - Serial Ports
  - USB Ports
  - CAN Ports
  - Ethernet
  - Memory

- **Number of Channels**: 14
- **Max. Data Rate**: 100 Hz
- **Input Voltage**: +3.3 to +5.0 VDC [±5%]
- **Power Consumption**: 0.36 W
- **Size**: 46 × 71 × 11 mm
- **Weight**: 18 g

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*Requires subscription to TerraStar-C data service. Subscriptions available from NovAtel.*