



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

The secret to positioning success.

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 0086-21-68882300

Europe 44-1993-848-736

SE Asia & Australia 61-400-883-601



Receivers



Version 21 Specifications subject to change without notice.

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Refer to www.novatel.com for specification revisions.

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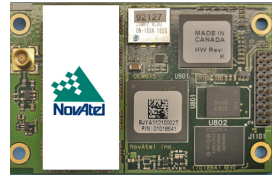
D09736 October 2016



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.

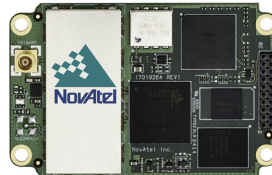


Size: 46 x 71 x 11 mm Weight: <24 g

OEM615™

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

GPS + GLONASS + Galileo + BeiDou + SBAS



Size: 46 x 71 x 11 mm Weight: <24 g

OEM617™

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

GPS + GLONASS + Galileo + BeiDou + SBAS

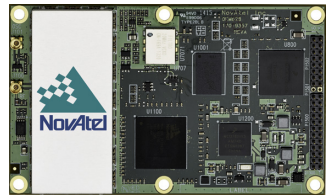


Size: 46 x 71 x 11 mm Weight: <24 g

OEM617D™

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

GPS + GLONASS + Galileo + BeiDou + SBAS

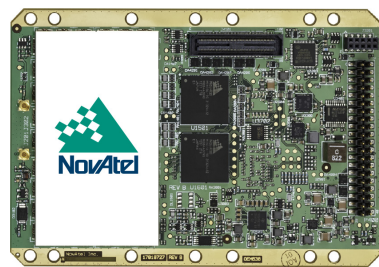


Size: 60 x 100 x 9 mm Weight: 37 g

OEM628™

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

GPS + GLONASS + Galileo + BeiDou + SBAS + L-Band



Size: 85 x 125 x 14.3 mm Weight: 84 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.

GPS + GLONASS + Galileo + BeiDou + SBAS + L-Band

OEMStar®



Size: 46 x 71 x 13 mm Weight: 18 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.

GPS + GLONASS + SBAS

POSITIONING ACCURACY (LEVEL)

Single Point L1	Single Point L1/L2	Metre (RMS)		Sub Metre (RMS)		Centimetre (RMS)	
		SBAS	DGPS	NovAtel CORRECT™			
				PPP ^a		RTK	
		TerraStar-L	TerraStar-C				
1.5 m	1.2 m	60 cm	40 cm			1 cm + 1 ppm	
1.5 m	1.2 m	60 cm	40 cm			1 cm + 1 ppm	
1.5 m	1.2 m	60 cm	40 cm			1 cm + 1 ppm	
1.5 m	1.2 m	60 cm	40 cm	40 cm	4 cm	1 cm + 1 ppm	
1.5 m	1.2 m	60 cm	40 cm		4 cm	1 cm + 1 ppm	
1.5 m	1.2 m	70 cm	50 cm				

^a. Requires subscription to TerraStar data service. Subscriptions available from NovAtel.

SOLUTIONS

RTK ASSIST™	ALIGN® Heading and Relative Positioning	Integrated ALIGN Heading	GLIDE™	RAIM	SPAN®
	+		+	+	+
	+		+	+	+
	+	+	+	+	
	+		+	+	+

SIGNAL TRACKING

GPS	GLONASS	Galileo	BeiDou	SBAS	L-Band	QZSS	Number of Channels
L1, L2, L2C	L1, L2	E1	B1	+		+	120
L1, L2, L2C	L1, L2	E1, E5b	B1, B2	+		+	120
L1, L2, L2C	L1, L2	E1, E5b	B1, B2	+		+	120
L1, L2, L2C, L5	L1, L2	E1, E5a, E5b, AltBOC	B1, B2	+	+	+	120
L1, L2, L2C, L5	L1, L2	E1, E5a, E5b, AltBOC	B1, B2	+	+	+	240
L1	L1			+			14

INTERFACES

Serial Ports	USB Ports	CAN Ports	Ethernet	Memory
3	1	2		
3	1	2		
3	1	2		
3	1	2	1	
6	1 Device, 2 Host	2	1	4 GB onboard

Maximum Data Rate	Input Voltage	Power Consumption	Enclosure Option
50 Hz	+3.3 VDC [±5%]	< 1.0 W	
50 Hz	+3.3 V [+5%/-3%]	< 1.0 W	
20 Hz	+3.3 V [+5%/-3%]	< 2.0 W	
100 Hz	+3.3 VDC [±5%]	1.3 W	FlexPak6™
100 Hz	4.5 - 36 VDC, +3.3 V [+5%/-3%]	2.8 W	ProPak6™
10 Hz	+3.3 to +5.0 VDC [±5%]	0.36 W	FlexPak-G2™