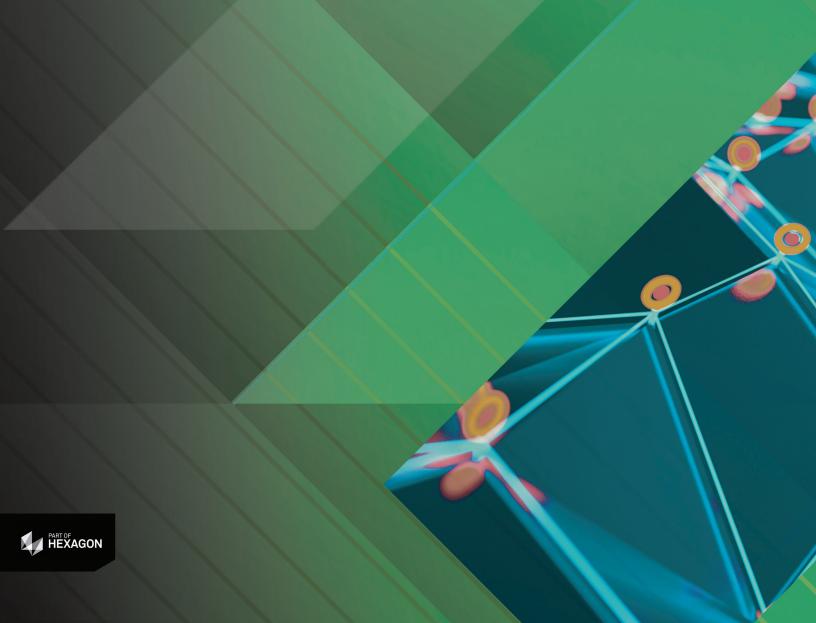
OEM7[®] Receivers



Setting the standard in positioning and performance



NovAtel OEM7® GNSS Receivers

NOVATEL'S OEM7 GNSS RECEIVERS SET THE STANDARD IN POSITIONING PERFORMANCE, FEATURES AND EASE OF INTEGRATION.

Leveraging six previous generations of precise positioning know-how, the OEM7 incorporates innovative capabilities and features to enhance positioning reliability, accuracy and availability.

Cornerstones of the OEM7 family include advanced interference detection and mitigation, with L-Band and SPAN° GNSS+INS functionality on every receiver.

SPAN® Technology



NovAtel`s SPAN technology provides continuous 3D positioning, velocity and attitude determination even when satellite reception may be comprimised for short periods of time.

SPAN integrates Inertial Measurement Units (IMUs) with OEM7 receivers to create a tightly coupled GNSS+INS solution at data rates up to 200 Hz.

The accuracy of SPAN products can be optimized with best-in-class post-processing software from our Waypoint® Products group

To learn more about SPAN technology, please vist www.novatel.com/products/span-qnss-inertial-systems/

CORRECT Positioning

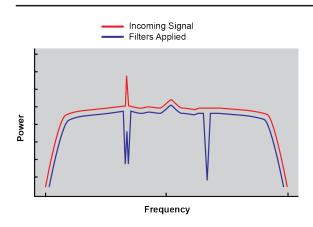


NovAtel CORRECT® is state-of-the-art in positioning algorithms. It optimizes corrections from Real Time Kinematic (RTK), Precise Point Positioning (PPP), Space Based Augmentation Systems (SBAS) and Differential Global Navigation Satellite Systems (DGNSS).

NovAtel CORRECT ensures you receive the positioning accuracy needed for your application, whether that is metre, decimetre or centimetre-level.

To learn more about NovAtel CORRECT positioning, please visiit www.novatel.com/solutions/novatel-correct-positioning/

Interference Toolkit



In today' crowded frequency spectrum, potential for interference is high.

The Interference Toolkit provides any operator on-demand actionable intelligence by measuring the radio frequency spectrum levels, simplifying visualization, monitoring, quantifying and even mitigating interference sources.

To learn more about the Interference Toolkit, please visit www.novatel.com/solutions/interference-mitigation/

Web UI



Web UI is a website user interface that configures and monitors receiver activities all at a glance. With it's new look for OEM7 products, and ease to connect over ethernet, all your information is available together. It comes with the following main features:

- · Position configurations and display status
- · Logging control
- Storage management
- Mobile platform support
- Firmware upgradable through Web UI

NovAtel OEM7® GNSS Series

POSITIONING ACCURACY (LEVEL)

Cards		P	051110	JNING	ACCU	(LEVEL	_)	
Carus			tre /95%)		Sub Metr RMS/959	Centimetre (RMS/95%)		
		Single Point L1	Single Point L1/L2	SBAS	DGPS	TerraStar-Lª	TerraStar-C PRO ^a	RTK
Note Alex	OEM7600 [™] Multi-frequency GNSS receiver delivers precise positioning in an extremely compact form factor Size: 35 × 55 × 13 mm Weight: 31 g	1.5 m 2.5 m	1.2 m 2.4 m	60 cm 120 cm	40 cm 80 cm	40 cm 50 cm	2.5 cm ^b 3 cm	1 cm + 1 ppm 2.5 cm + 1 ppm
NovAted The second seco	OEM7700 [™] Multi-frequency GNSS receiver delivers precise positioning and simplifies integration Size: 46 × 71 × 8 mm Weight: 31 g	1.5 m 2.5 m	1.2 m 2.4 m	60 cm 120 cm	40 cm 80 cm	40 cm 50 cm	2.5 cm 3 cm	1 cm + 1 ppm 2.5 cm + 1 ppm
NouAtrz	OEM7720 [™] Dual-antenna, multi-frequency GNSS receiver delivers robust heading and positioning Size: 46 × 71 × 8 mm Weight: 29 g	1.5 m 2.5 m	1.2 m 2.4 m	60 cm 120 cm	40 cm 80 cm	40 cm 50 cm	2.5 cm 3 cm	1 cm + 1 ppm 2.5 cm + 1 ppm
NovAte	OEM719™ Multi-frequency GNSS receiver includes all modern signals and is backward compatible with the OEM615/OEM617 receiver Size: 46 × 71 × 11 mm Weight: 31 g	1.5 m 2.5 m	1.2 m 2.4 m	60 cm 120 cm	40 cm 80 cm	40 cm 50 cm	2.5 cm 3 cm	1 cm + 1 ppm 2.5 cm + 1 ppm
NovAtel	OEM729™ Multi-frequency GNSS receiver includes all modern signals and is backward compatible with the OEM628 receiver Size: 60 × 100 × 9 mm Weight: 48 g	1.5 m 2.5 m	1.2 m 2.4 m	60 cm 120 cm	40 cm 80 cm	40 cm 50 cm	2.5 cm 3 cm	1 cm + 1 ppm 2.5 cm + 1 ppm

a. Requires subscription to TerraStar data service. Subscriptions available from NovAtel.
 b. TerraStar-C Pro available on a future firmware release.
 c. Typical value. GPS L1 only.

		SOI	LUTIC	ONS					SI	GNAI	L TR	ACKII	NG			IN	ITER	ERFACES					
ALIGN® Heading and Relative Positioning	Integrated ALIGN Heading	NovAtel CORRECT®	GLIDE®	RAIM	SPAN®	Interference Toolkit	GPS	GLONASS	Galileo	BeiDou	QZSS	NavIC (IRNSS)	SBAS	L-Band	Number of Channels	Serial Ports	USB Ports	CAN Ports	Ethernet		Maximum Data Rate	Input Voltage	Power Consumptionc
+		+	+	+	+	+	L1 C/A, L1C, L2C, L2P, L5	L1 C/A, L2 C/A, L2P, L3, L5	E1, E5 AltBOC, E5a, E5b	B11, B1C, B21, B2a	L1 C/A, L1C, L2C, L5	L5	L1, L5	Up to 5 channels	555	5	1 Device, 1 Host	2	-		100 Hz	+3.3 VDC [±5%]	W 6.0
+		+	+	+	+	+	L1 C/A, L1C, L2C, L2P, L5	L1 C/A, L2 C/A, L2P, L3, L5	E1, E5 AltBOC, E5a, E5b, E6	B11, B1C, B21, B2a, B31	L1 C/A, L1C, L2C, L5, L6	L5	L1, L5	Up to 5 channels	555	5	1 Device, 1 Host	2	_		100 Hz	+3.3 VDC [±5%]	W 6.0
+	+	+	+	+	+	+	L1 C/A, L1C, L2C, L2P, L5	L1 C/A, L2 C/A, L2P, L3, L5	E1, E5 AltBOC, E5a, E5b	B11, B1C, B21, B2a	L1 C/A, L1C, L2C, L5	12	L1, L5	Up to 5 channels	555	5	1 Device, 1 Host	2	_		100 Hz	+3.0 to 5.0 VDC	1.6 W
+		+	+	+	+	+	L1 C/A, L1C, L2C, L2P, L5	L1 C/A, L2 C/A, L2P, L3, L5	E1, E5 AltBOC, E5a, E5b, E6	B11, B1C, B21, B2a, B31	L1 C/A, L1C, L2C, L5, L6	L5	L1, L5	Up to 5 channels	555	S	1 Device	2			100 Hz	+3.3 VDC [±5%]	W 6.0
+		+	+	+	+	+	L1 C/A, L1C, L2C, L2P, L5	L1 C/A, L2 C/A, L2P, L3, L5	E1, E5 AltBOC, E5a, E5b, E6	B11, B1C, B21, B2a, B31	L1 C/A, L1C, L2C, L5, L6	L5	11, L5	Up to 5 channels	555	2 LVCMOS, 1 RS-232/RS-422	1 Device	2	-		100 Hz	+3.3 VDC [±5%]	0.9 W

NovAtel OEM7® GNSS Series

Enclosures

POSITIONING ACCURACY (LEVEL)

Sub Metre

(RMS/95%)

DGPS

SBAS

Centimetre

(RMS/95%)

TerraStar-C PRO

TerraStar-L^a

Metre

(RMS/95%)

Single Point L1/L2

Single Point L1

PwrPak7®

Rugged, compact enclosure delivers scalable GNSS solutions with internal storage and GNSS+INS options

Size: $147 \times 125 \times 55 \text{ mm}$

Weight: 500 g



PwrPak7D

Rugged, compact, dual antenna enclosure delivers scalable GNSS solutions with internal storage and GNSS+INS options

Size: $147 \times 125 \times 55 \text{ mm}$

Weight: 500 g

1 cm + 1 ppr	1 cm + 1 ppm
2.5 cm + 1 pp	2.5 cm + 1 ppm
2.5 cm	2.5 cm
3 cm	3 cm
40 cm	40 cm
50 cm	50 cm
40 cm	40 cm
80 cm	80 cm
60 cm	60 cm
120 cm	120 cm
1.2 m	1.2 m
2.4 m	2.4 m
1.5 m	1.5 m
2.5 m	2.5 m

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

b. Typical value. GPS L1 only.

		SOL	UTIC	ONS				SIGNAL TRACKING									INT	ERFA	CES					
ALIGN® Heading and Relative Positioning	Integrated ALIGN Heading	NovAtel CORRECT®	GLIDE®	RAIM	SPAN®	Interference Toolkit	GPS	GLONASS	Galileo	BeiDou	QZSS	NavIC (IRNSS)	SBAS	L-Band	Number of Channels	Serial Ports	USB Ports	CAN Ports	Ethernet	Wi-Fi	Memory	Maximum Data Rate	Input Voltage	Power Consumption ^b
+		+	+	+	+	+	L1 C/A, L1C, L2C, L2P, L5	L1 C/A, L2 C/A, L2P, L3, L5	E1, E5 AltBOC, E5a, E5b, E6	B11, B1C, B21, B2a, B31	L1 C/A, L1C, L2C, L5, L6	1.5	L1, L5	Up to 5 channels	555	1 RS-232, 2 RS-232/RS-422	1 Device, 1 Host	-	-	+	16 GB	100 Hz	+9 to +36 VDC	1.8 W
+	+	+	+	+	+	+	L1 C/A, L1C, L2C, L2P, L5	L1 C/A, L2 C/A, L2P, L3, L5	E1, E5 AltBOC, E5a, E5b	B11, B1C, B21, B2a	L1 C/A, L1C, L2C, L5	L5	L1, L5	Up to 5 channels	555	1 RS-232, 2 RS-232/RS-422	1 Device, 1 Host	-	-	+	16 GB	100 Hz	+9 to +36 VDC	2.5 W



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

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sales@novatel.com

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China 0086-21-68882300

Europe 44-1993-848-736

SE Asia & Australia 61-400-883-601

Version 8 Specifications subject to change without notice.

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Refer to www.novatel.com for the latest revision of this brochure.

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