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# OEM7™ Receivers

Setting the standard in  
positioning and performance.

# NovAtel OEM7™ GNSS Series

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 card.

## Cards



### OEM7600™

Compact, dual-frequency GNSS receiver

Size: 35 × 55 × 11 mm

Weight: 20 g

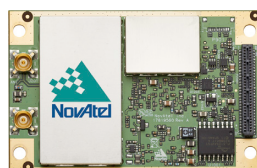


### OEM7700™

Multi-frequency GNSS receiver delivers precise positioning and simplifies integration

Size: 46 × 71 × 11 mm

Weight: 31 g

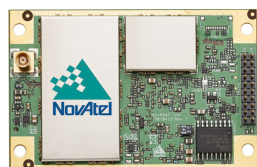


### OEM7720™

Dual-antenna, multi-frequency GNSS receiver delivers robust heading and positioning

Size: 46 × 71 × 11 mm

Weight: 35 g

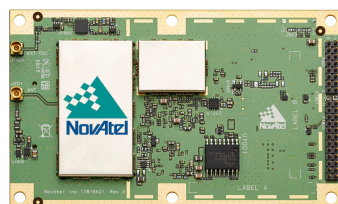


### OEM719™

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



### 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

## Enclosures



### PwrPak7™

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

Size: 147 × 145 × 53 mm

Weight: 500 g

## POSITIONING ACCURACY (LEVEL)

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

a. Requires subscription to TerraStar data service. Subscriptions available from NovAtel.  
 b. Typical value, GPS L1 only.

**SOLUTIONS**

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

**SIGNAL TRACKING**

L1 C/A, L1C, L2C, L2P, L5	L1 C/A, L1C, L2C, L2P, L5	L1 C/A, L1C, L2C, L2P, L5	L1 C/A, L1C, L2C, L2P, L5	L1 C/A, L1C, L2C, L2P, L5	L1 C/A, L1C, L2C, L2P, L5	L1 C/A, L1C, L2C, L2P, L5	L1 C/A, L1C, L2C, L2P, L5	L1 C/A, L1C, L2C, L2P, L5	GPS
L1 C/A, L2C, L2P, L3, L5	L1 C/A, L2C, L2P, L3, L5	L1 C/A, L2C, L2P, L3, L5	L1 C/A, L2C, L2P, L3, L5	L1 C/A, L2C, L2P, L3, L5	L1 C/A, L2C, L2P, L3, L5	L1 C/A, L2C, L2P, L3, L5	L1 C/A, L2C, L2P, L3, L5	L1 C/A, L2C, L2P, L3, L5	GLONASS
B1, B2, B3	B1, B2, B3	B1, B2, B3	B1, B2, B3	B1, B2, B3	B1, B2, B3	B1, B2, B3	B1, B2, B3	B1, B2, B3	BeiDou
E1, E5 AltBOC, E5a, E5b, E6	E1, E5 AltBOC, E5a, E5b, E6	E1, E5 AltBOC, E5a, E5b, E6	E1, E5 AltBOC, E5a, E5b, E6	E1, E5 AltBOC, E5a, E5b, E6	E1, E5 AltBOC, E5a, E5b, E6	E1, E5 AltBOC, E5a, E5b, E6	E1, E5 AltBOC, E5a, E5b, E6	E1, E5b	Galileo
L5	L5	L5	L5	L5	L5	L5	L5	L5	IRNSS
L1, L5	L1, L5	L1, L5	L1, L5	L1, L5	L1, L5	L1, L5	L1, L5	L1	SBAS
L1 C/A, L1C, L2C, L5, L6	L1 C/A, L1C, L2C, L5, L6	L1 C/A, L1C, L2C, L5, L6	L1 C/A, L1C, L2C, L5, L6	L1 C/A, L1C, L2C, L5, L6	L1 C/A, L1C, L2C, L5, L6	L1 C/A, L1C, L2C, L5, L6	L1 C/A, L1C, L2C, L5, L6	L1 C/A, L1C, L2C	QZSS
Up to 5 channels	Up to 5 channels	Up to 5 channels	Up to 5 channels	Up to 5 channels	Up to 5 channels	Up to 5 channels	Up to 5 channels	Up to 5 channels	L-Band
555	555	555	555	555	555	555	555	555	Number of Channels

**INTERFACES**

1 RS-232, 2 RS-232/RS-422	2 LVCMOS, 1 RS-232/RS-422	3	5	5	5	5	5	5	Serial Ports
1 Device, 1 Host	1 Device	1 Device	1 Device, 1 Host	1 Device, 1 Host	1 Device, 1 Host	1 Device, 1 Host	1 Device, 1 Host	1 Device, 1 Host	USB Ports
1	2	2	2	2	2	2	2	2	CAN Ports
1	1	1	1	1	1	1	1	1	Ethernet
16 GB									Memory
100 Hz	100 Hz	100 Hz	100 Hz	100 Hz	100 Hz	100 Hz	100 Hz	100 Hz	Maximum Data Rate
+6 to +36 VDC	+3.3 VDC [±5%]	+3.3 VDC [±5%]	+3.3 VDC [±5%]	+3.3 VDC [±5%]	+3.3 VDC [±5%]	+3.2 to 5.0 VDC [±5%]	+3.3 VDC [±5%]	+3.3 VDC [±5%]	Input Voltage
1.8 W	0.9 W	0.9 W	0.9 W	1.3 W	0.9 W	0.9 W	0.9 W	0.9 W	Power Consumption <sup>b</sup>



## The secret to positioning success.

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### **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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**Version 2** Specifications subject to change without notice.

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