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SMART Antennas

High-precision GNSS receiver & high-performance antenna in a compact, rugged enclosure



Hexagon | NovAtel **SMART Antennas**

POSITIONING ACCURACY (LEVEL)

Me (RMS)			ub Mete MS / <mark>95</mark>		Centimeter (RMS / 95%)							
Single Point L1	Single Point L1/L2	SBAS	DGPS	TerraStar-Lª	TerraStar-C PROª	TerraStar-Xª	ЯТК					

60 cm

120 cm

1.2 m

40 cm 80 cm

E 0

80

2.5 cm

2.5 cm

3 cm

2 cm

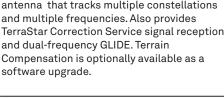
40 cm 50 cm

40 cm 50 cm



SMART7

A rugged, self-contained GNSS receiver and antenna that tracks multiple constellations and multiple frequencies. Also provides TerraStar Correction Service signal reception and dual-frequency GLIDE. Terrain Compensation is optionally available as a





SMART7-S

A rugged, self-contained GNSS receiver, antenna and IMU that provides a single enclosure SPAN solution for attitude information, terrain compensated positions and bridging of GNSS outages. Also provides TerraStar Correction Service signal reception and dual-frequency GLIDE.



RELAY7

The RELAY7 RTK rover radio module attaches to NovAtel's SMART7 to create a single unit for easy system integration. (SMART7 is purchased separately.) 400 MHz or 900 MHz UHF radio options



SMART2

A compact, self-contained GNSS receiver and antenna with dual-frequency, multiconstellation signal tracking. Also provides TerraStar Correction Service signal reception and optional dual-frequency GLIDE. Hardware options available for Bluetooth® connectivity and Terrain Compensation.



AG-STAR

A self-contained receiver and antenna that is ideal for agricultural environments. It features sub-meter real-time accuracy with optional GLONASS and Bluetooth. Optional GLIDE is also available.

								1c 2.5
	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		
	1.5 m 2.5 m		70 cm 140 cm	50 cm 100 cm				
ıbscı	ription to	TerraSta	ar data se	ervice. Su	ıbscriptio	ons avail	able from	n NovAtel

SOLUTIONS					SIGNAL TRACKING								INTERFACES													
RTK ASSIST ^a	RTK ASSIST PRO ^a	ALIGN Heading	Integrated SPAN	GLIDE	Terrain Compensation	Emulated Radar	GPS	GLONASS	Galileo	BeiDou	OZSS	SBAS	L-Band	Number of Channels	Serial Ports	CAN	Ethernet	Wi-Fi	Bluetooth		Maximum Data Rate	Input Voltage	Power Consumption (typical)	Dimensions (mm)	Weight	Connector
Optional	Optional	Optional		+	Optional	+	L1, L2, L2C, L5	L1, L2	E1, E5a, E5b, E5 AltBOC	B11, B1C, B21, B2a, B2b	7, 12	+	+	555	3	1	Optional	Optional			20 Hz	+7 to +30 VDC	4 W	220 × 192 × 66	<1.1 kg	14-pin Tyco AMPSEAL Optional M12 D-Coded
Optional	Optional	Optional	+	+		+	L1, L2, L2C, L5	L1, L2	E1, E5a, E5b, E5 AltBOC	B11, B1C, B21, B2a, B2b	1, L2	+	+	555	3	7	Optional	Optional			20 Hz (GNSS) 200 Hz (INS)	+7 to +30 VDC	7 M	220 ×192 × 66	<.1.1 kg	14-pin Tyco AMPSEAL Optional M12 D-Coded
															2b	_						+7 to +30 VDC	2 W	187 × 200 × 76	<850 g	TNC female jack, 14-pin Tyco AMPSEAL
				Optional	Optional	+	L1, L2, L2C	L1, L2	E1, E5b	B11, B21, B2b	11, L2	+	+	167	3	_			Optional		20 Hz	+7 to +30 VDC	2.5 W	155 x 81	g 0/4>	14-pin Tyco AMPSEAL
				Optional		+	ח	П				+		74	2	_			Optional		10 Hz	+8 to +36 VDC	2.5 W	155 x 68	g 067>	14-pin Tyco AMPSEAL

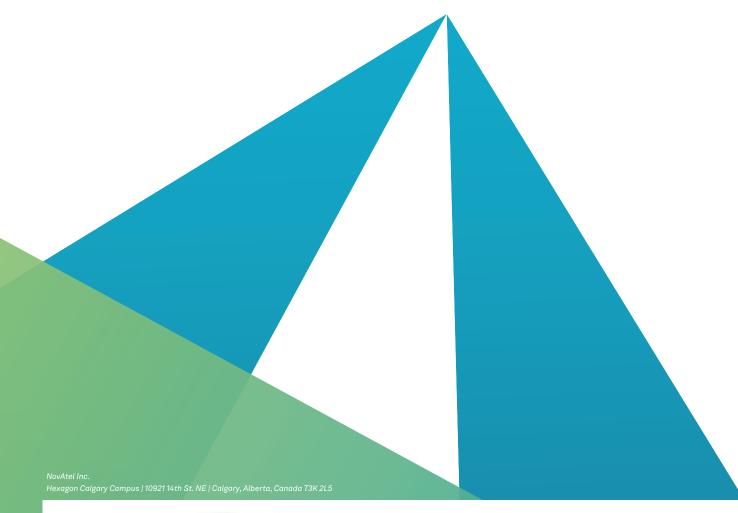
b. SMART7 serial and CAN ports passed through the RELAY7.



About Hexagon | NovAtel

Hexagon is a global leader in sensor, software and autonomous solutions. We are putting data to work to boost efficiency, productivity, and quality across industrial, manufacturing, infrastructure, safety, and mobility applications. Our technologies are shaping urban and production ecosystems to become increasingly connected and autonomous — ensuring a scalable, sustainable future.

NovAtel, part of Hexagon, is a global technology leader, pioneering end-to-end solutions for assured positioning for land, sea, and air. NovAtel designs, manufactures and sells high precision positioning technology developed for efficient and rapid integration. Its solutions are empowering intelligent positioning ecosystems in vital industries that depend on the ability to tackle the most complex challenges in the most demanding environments. Learn more at novatel.com.





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