



SMART ANTENNAS

NovAtel SMART antennas integrate our high-precision Global Navigation Satellite System (GNSS) receivers and high-performance antennas in rugged, durable housings.

Our SMART antennas are designed to ensure optimal GNSS system performance with careful integration of a receiver card and a high-performance antenna element. NovAtel SMART antennas incorporate our patented Pulse Aperture Correlator (PAC) technology to virtually eliminate the effects of multipath for high-quality measurements and are designed to meet the European Union's Restriction of Hazardous Substances (RoHS) Directive.

Whatever your application, NovAtel SMART antennas will ensure your success.

For comprehensive SMART antenna information, visit www.novatel.com/products/gnss-receivers



PRECISE THINKING MAKES IT POSSIBLE

NovAtel is an original equipment manufacturer (OEM) that designs, manufactures and sells high-precision Global Navigation Satellite System (GNSS) technology.

Our receivers, antennas, components and subsystems are at the heart of many of the world's most exciting precise-positioning applications.

The markets we serve are wide and varied, including aviation, survey, geomatics, machine control, mining, agriculture, marine and defense. Whatever your application, NovAtel technology will ensure your success.

To learn more, visit www.novatel.com

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China 0086-21-54452990-8011

Europe 44-1993 848-736

SE Asia & Australia 61-400-883-601



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Specifications subject to change without notice.

Refer to www.novatel.com for specification revisions

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SMART-V1™



Size: 115 x 90 mm Weight: 575 g

A rugged, self-contained L1 GPS + L-band receiver and antenna. Available communication interface options are USB + 2 x RS-232, CANBus + 2 x RS-232, or 2 x RS-422 + 1 x RS-232. Application Programming Interface (API) option is not available on the RS-422 model.

GPS L1 + SBAS + L-band

SMART-V1G™



Size: 115 x 90 mm Weight: 575 g

A rugged, self-contained L1 GPS + L1 GLONASS receiver and antenna. Available communication interface options are USB + 2 x RS-232 or 2 x RS-422 + 1 x RS-232. Application Programming Interface (API) option is not available on the RS-422 model.

GPS L1 + GLONASS L1 + SBAS

SMART-AG™



Size: 155 x 68 mm Weight: 500 g

A self-contained receiver and antenna that is ideal for harsh agricultural environments. It features sub-metre real-time accuracy with optional GLONASS, Bluetooth® and tilt compensation.

GPS L1 + GLONASS L1 + SBAS

SMART-MR10™



Size: 233 x 232 x 89 mm Weight: 1.9 kg

Scalable positioning accuracies down to 2 cm in a robust enclosure that is designed specifically for on-machine agriculture, mining and construction applications.

GPS L1/L2/L5 + GLONASS L1/L2 + SBAS +L-band

SMART-MR15™



Size: 233 x 233 x 90 mm Weight: 2.1 kg

An integrated CDMA or GPRS/HSDPA modem and embedded NTRIP client provide simple and convenient access to Internet corrections.

GPS L1/L2/L5 + GLONASS L1/L2 + SBAS +L-band + Cellular radio

	Positioning Accuracy										Options			Signal Tracking					Interfaces										
	Single Point L1	Single Point L1/L2	OmniSTAR VBS	SBAS	DGPS	RT-20®	OmniSTAR XP	OmniSTAR HP	RT-2 L1TE™	RT-2™	ALIGN® Heading	API	GL1DE®	GPS	GLONASS	SBAS	L-band	Number of Channels	Serial Ports	USB Ports	Ethernet	CAN	Bluetooth	Radios	Maximum Data Rate	Input Voltage	Power Consumption	Receiver	Connector
SMART-V1™	1.8 m		0.9 m	1.2 m	0.7 m	0.2 m					•	•	L1		•	•	36	2	1		1			20 Hz	+9 to +28 VDC	1.8 W	OEMV-1	18-pin bulkhead	Centre mount
SMART-V1G™	1.8 m			1.2 m	0.7 m	0.2 m				•	•	•	L1	L1	•		36	2	1					20 Hz	+9 to +28 VDC	1.8 W	OEMV-1G	18-pin bulkhead	Centre mount
SMART-AG™	1.6 m			0.8 m	0.5 m	0.2 m				•		•	L1	L1	•		36	2			1	Optional		20 Hz	+8 to +36 VDC	2.5 W	Custom	14-pin AMPSEAL	Magnet or 4x8-32 inserts
SMART-MR10™	1.5 m	1.2 m	0.6 m	0.6 m	0.4 m	0.2 m	0.15 m	0.10 m		•		•	L1, L2, L2C, L5	L1, L2	•	•	72	3			1	1		20 Hz ¹	+9 to +36 VDC	3.7 W	OEMV-3	23-pin AMPSEAL	Plate mount
SMART-MR15™	1.5 m	1.2 m	0.6 m	0.6 m	0.4 m	0.2 m	0.15 m	0.10 m				•	L1, L2, L2C, L5	L1, L2	•	•	72	2			1	1	CDMA or GPRS/HSDPA	20 Hz ¹	+9 to +36 VDC	4.5 W	OEMV-3	23-pin AMPSEAL	Plate mount

¹ Contact NovAtel for 20 Hz operating instructions