

SMART Antennas

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



Hexagon | NovAtel® SMART Antennas



SMART7™

A rugged, self-contained GNSS receiver and antenna that tracks multiple GNSS signals. Also provides TerraStar correction signal reception and dual frequency GLIDE. Terrain Compensation is optionally available as a software upgrade.



SMART7-S™

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



RELAY7™

The RELAY7 RTK 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, multi-constellation signal tracking. Also provides TerraStar correction 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.

POSITIONING ACCURACY (LEVEL)

Meter (RMS / 95%)		Sub Meter (RMS / 95%)		Centimeter (RMS / 95%)				
Single Point L1	Single Point L1/L2	SBAS	DGPS	TerraStar-L ^a	TerraStar-C ^a	TerraStar-C PRO ^a	TerraStar-X ^a	RTK
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	2 cm 2.5 cm	1 cm + 1 ppm 2.5 cm + 2 ppm
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	2 cm 2.5 cm	1 cm + 1 ppm 2.5 cm + 2 ppm
1.5 m 2.5 m	1.2 m 2.4 m	60 cm 120 cm	40 cm 80 cm	40 cm 50 cm	4 cm 5 cm			
1.5 m 2.5 m		70 cm 140 cm	50 cm 100 cm					

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



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.

NovAtel Inc.
Hexagon Calgary Campus | 10921 14th St. NE | Calgary, Alberta, Canada T3K 2L5

Contact Information
US & Canada 1-800-NOVATEL or 403-295-4900
China 0086-21-68882300 | Europe 44-1993-848-736 | SE Asia & Australia 61-400-883-601
Website: novatel.com | Email: sales@novatel.com

©2020 NovAtel Inc. All rights reserved. NovAtel is part of Hexagon. All trademarks or servicemarks used herein are property of their respective owners. NovAtel makes no representation or warranty regarding the accuracy of the information in this publication. This document gives only a general description of the product(s) or service(s) offered by NovAtel, and, except where expressly provided otherwise, shall not form part of any contract. Such information, the products and conditions of supply are subject to change without notice.

Version 20
D16277 March 2020