



SMART Antennas

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



Hexagon | NovAtel® SMART Antennas

| POSITIONING ACCURACY (LEVEL) | | | | | | | | | | | | | | |
|------------------------------|--------------------|-----------------|-------------------|----------------|---------------------------|------------------|----------------|------------------------------|--|--|--|--|--|--|
| | ter / 95%) | | ub Met MS / 95 | | Centimeter (RMS / 95%) | | | | | | | | | |
| Single Point L1 | Single Point L1/L2 | SBAS | DGPS | TerraStar-Lª | TerraStar-Cª | TerraStar-C PROª | TerraStar-Xª | 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 | 1cm+1ppm 2.5cm+2ppm | | | | | | |
| 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 | 1cm + 1ppm 2.5 cm + 2 ppm | | | | | | |
| | | | | | | | | | | | | | | |



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



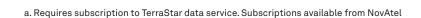
SMART2™

A compact, self-contained GNSS receiver and antenna with dual-frequency, multiconstellation 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.



1.2 m 2.4 m

E E

60 cm

40 cm 80 cm 40 cm 50 cm

4 cm 5 cm

| SOLUTIONS | | | | | | SIGNAL TRACKING | | | | | | | | INTERFACES | | | | | | | | | | | |
|-------------|----------------|----------------|------------------|----------|----------------------|-----------------|-----------------|---------|-------------------------|--------------------|--------|------|--------|--------------------|----------------|-----|----------|----------|-----------|-------------------|---------------|-----------------------------|-----------------|----------|---|
| RTK ASSIST™ | RTK ASSIST PRO | ALIGN® Heading | Integrated SPAN® | GLIDE® | Terrain Compensation | Emulated Radar | GPS | GLONASS | Galileo | BeiDou | QZSS | SBAS | L-Band | Number of Channels | Serial Ports | CAN | Ethernet | Wi-Fi | Bluetooth | Maximum Data Rate | InputVoltage | Power Consumption (typical) | Dimensions (mm) | Weight | Connector |
| + | + | + | | + | + | + | L1, L2, L2C, L5 | 71, L2 | E1, E5a, E5b, E5 AltBOC | B11, B1C, B21, B2a | 1, L2 | + | + | 555 | က | 7 | Optional | Optional | | 20 Hz | +7 to +30 VDC | 4 W | 220 × 192 × 66 | <1.1 kg | 14-pin Tyco AMPSEAL Optional M12 D-Coded |
| + | + | + | + | + | | + | L1, L2, L2C, L5 | 7, 12 | E1, E5a, E5b, E5 AltBOC | B11, B1C, B21, B2a | 7, 1.2 | + | + | 555 | ო | 1 | Optional | Optional | | 20 Hz (GNSS) | +7 to +30 VDC | 4 W | 220 ×192 × 66 | <.1.1 kg | 14-pin Tyco AMPSEAL Optional M12 D-Coded |
| | | | | | | | | | | | | | | | 2 ^b | _ | | | | | +7 to +30 VDC | 2 W | 187 x 200 x 76 | <850 g | TNC female jack, 14-pin Tyco AMPSEAL |
| | | + | | Optional | Optional | + | L1, L2, L2C | L1, L2 | E1, E5b | B11, B2I | L1, L2 | + | + | 167 | က | _ | | | Optional | 20 Hz | +7 to +30 VDC | 2.5 W | 155 x 81 | <470 g | 14-pin Tyco AMPSEAL |
| | | | | Optional | | + | 11 | 17 | | | | + | | 14 | 2 | - | | | Optional | 10 Hz | +8 to +36 VDC | 2.5 W | 155 x 68 | 8 064> | 14-pin Tyco AMPSEAL |

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



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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