

Military & Defence

Assured Positioning, Navigation, & Timing

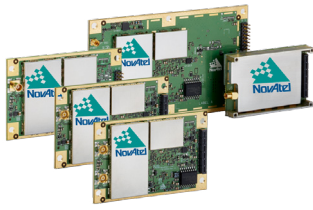


Navigation superiority starts with us

Hexagon | NovAtel is a leader in assured positioning with over 30 years of experience producing innovative technology to protect your people, assets, and infrastructure. Not only are our products used for successful military operations worldwide, they are also used as the source-of-truth benchmark in field-testing.

Assured PNT

NovAtel's OEM Global Navigation Satellite Systems (GNSS) technology is inside many of the most advanced high-precision and robust positioning platforms, designed by a team of top hardware, software, mechanical, and geomatics engineers. Our technology provides proven assured positioning, navigation, and timing (APNT) in GNSS-contested conditions. Our components and commercial off-the-shelf items are engineered to ensure continuous positioning, and to provide situational awareness by detecting, locating, and characterising interference sources, allowing operations in the most hostile RF environments.



OEM7 receivers

NovAtel's multi-constellation, multi-frequency receivers provide unsurpassed signal availability in challenging environments. Our receivers are easy to integrate and available in multiple configurations to lower size, weight, and power (SWaP) and flexibly fit a variety of platforms.

SPAN GNSS+INS technology

SPAN technology from NovAtel deeply couples a GNSS receiver with an Inertial Measurement Unit (IMU) and other sensors for reliable, continuously available 3D position, velocity, and attitude — even during periods of satellite signal unavailability.



GAJT

GNSS Anti-Jam Technology (GAJT) protects every platform in your force

GAJT mitigates against jammers to ensure the GNSS signals required for calculating position, velocity, and time remain available. GAJT is a commercial off-the-shelf product, which ensures short order lead times and quick deployment. In addition to protection, situational awareness messages are provided to indicate the presence of jammers.

GAJT-AE3

Featuring multi-constellation, multi-frequency (MCMF) protection in a compact size, the GAJT-AE3 integrates seamlessly into UAVs, missiles, and military aircraft. It provides antenna electronics that are paired with a Controlled Reception Pattern Antenna (CRPA) best suited for the platform.

GAJT-710

The GAJT-710 is ideal for high-value land vehicles, marine vessels, and fixed installations. The GAJT-710 is quick and easy to mount and works with civil and military receivers, including M-Code. It includes a silent mode to reduce thermal signature.

GAJT-410

The GAJT-410 is a lower SWaP design for both land and marine platforms. GAJT-410 connects to a Power Injector Data Converter (PIDC) that provides power and data (jammer and direction-finding) over the same cable that delivers the protected signal to the receiver, saving costs.

GAJT-310

The GAJT-310 is our lowest SWaP design ideal for small platforms, including drones. It is commercially exportable technology, and available as an integrated enclosure or federated (separate antenna electronics and CRPA) for flexible and affordable integration.

GAJT model	Frequency band	Protection	Suppression	Situational awareness
 GAJT-AE3	MCMF GNSS, L-Band corrections, and Iridium	Up to 7 simultaneous jammer directions per band	Up to 65 dB	Jammer power Direction finding
 GAJT-710	L1, L2	Up to 6 simultaneous jammer directions per band	40 dB (typical) 55 dB (max)	Jammer power Direction finding
 GAJT-410	L1, L2	Up to 3 simultaneous jammer directions per band	40 dB (typical) 50 dB (max)	Jammer power Direction finding
 GAJT-310	L1, L2	Up to 2 simultaneous jammer directions per band	30 dB (typical)	Jammer power Direction finding

GRIT

GNSS Resilience and Integrity Technology (GRIT) is a firmware suite that expands situational awareness and provides interference mitigation tools across applications and environments.

GNSS spoofing detection

Enable spoofing detection for a comprehensive understanding of your RF environment to identify when your APNT are at risk.

GNSS Interference Toolkit (ITK)

A resilient signal requires protection. ITK identifies and characterises interference frequencies in your area, protecting you from unintentional and malicious interference.

Time-tagged digitized samples

Time-tagged snapshots of analog to digital data samples allow you to characterise the RF environment and develop your own interference location algorithms.





HEXAGON



About Hexagon | NovAtel

Hexagon is the global leader in measurement technologies. We provide the confidence that vital industries rely on to build, navigate, and innovate. From microns to Mars, our solutions ensure productivity, quality, and sustainability in everything from manufacturing and construction to mining and autonomous systems.

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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