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SCANCOM RADIO COMMUNICATIONS

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OEM GNSS Receivers and Antennas

OEM GNSS Receivers and Enclosures

Trimble InTech offers a wide range of ruggedly dependable receiver modules and enclosures, a selection of which with the latest Trimble Maxwell 7 and Z-Blade Technology are shown here.

BD940 	A compact, triple frequency receiver that delivers the quickest and most reliable RTK and RTX initialisations for centimeter positioning. The BD940 reduces radiated emissions, which speeds compliance certification and time to market. It provides assurance of long-term future proofing and trouble free operation. **Features** include Trimble Maxwell 7 Technology; 336 channels for multi-constellation GNSS support; OmniSTAR/RTX support; EMI shielded module; flexible RS232, USB and Ethernet interfacing; and advanced RF spectrum monitoring.
BD940-INS & BX940 	The compact BD940-INS integrates the latest in precision inertial sensors with robust high accuracy positioning in all environments. As the number of satellites in the constellations grows, the BD940-INS is ready to take advantage of the additional signals. This module also comes enclosed in the BX940 to provide an environmentally sealed integrated GNSS-Inertial engine. **Features** include Trimble Maxwell 7 Technology; 336 channels for multi-constellation GNSS support; OmniSTAR/RTX support; EMI shielded module; flexible RS232, USB and Ethernet interfacing; and advanced RF spectrum monitoring.
BD992 	A compact, dual antenna receiver that delivers centimeter accurate positions and precise heading. Heading derived from dual antenna GNSS measurements helps overcome issues such as difficulty determining where the antenna is positioned relative to the vehicle and object of interest. **Features** include Trimble Maxwell 7 Technology; 336 channels for multi-constellation GNSS support; OmniSTAR/RTX support; flexible RS232, USB and Ethernet interfacing; and advanced RF spectrum monitoring.
BD992-INS & BX992 	The BD992-INS is a compact, dual antenna receiver with an integrated inertial navigation system. It is a robust navigation system that supports position and orientation at high update rates. This module also comes enclosed in the BX992 to provide an environmentally sealed integrated GNSS-Inertial engine. **Features** include Trimble Maxwell 7 Technology; 336 channels for multi-constellation GNSS support; OmniSTAR/RTX support; flexible RS232, USB and Ethernet interfacing; and advanced RF spectrum monitoring.
AX940 & AX940i 	The AX940 is a compact, rugged, IP67 rated, triple-frequency smart antenna with MSS band demodulator. With multi-frequency, multi-constellation support for GPS, Galileo, GLONASS, BeiDou, QZSS and NavIC, this smart antenna can deliver reliable centimeter-level accuracy in a variety of environments, and without the constraints of a local base station or cell modem. This antenna is also available with an integrated inertial navigation system – the AX940i. **Features** include Trimble Maxwell 7 Technology; 336 channels for multi-constellation GNSS support; OmniSTAR/RTX support; flexible RS232, USB and Ethernet interfacing; and advanced RF spectrum monitoring.
MB-Two & ABX-Two 	The MB-Two is versatile, powerful, compact and smart, providing faster dual frequency based heading acquisition and an improved positioning engine with additional GNSS signals. Two MB-Two modules may be used for Precise Platform Position (P3) using data from three antennas for full GNSS attitude. Also available is the ABX-Two, which is a small, weatherproof, lightweight and rugged enclosure powered by two MB-Two modules. **Features** include Z-Blade Technology; 5 dual band GNSS; conventional and advanced RTK; Precise Point Positioning; precise heading, pitch and roll; full attitude; web user interface; and superior connectivity.

OEM GNSS Antennas

Trimble InTech offers a variety of high performance, rugged, multiband, GNSS antennas, designed to support high accuracy air, land and marine applications. A selection are shown here.

AV28 	The AV28 has been designed for precise triple frequency positioning in a wide range of applications, such as robotics and autonomous vehicle guidance. This antenna offers full support for GPS L1/L2/L5, GLONASS L1/L2/L3, Galileo E1/E5a+b and BeiDou B1/B2, as well as Trimble RTX and OmniSTAR correction services via L-Band. **Features** include low noise preamp <2 dB; axial ratio of <2 dB typ.; tight phase center variation; LNA gain of 37 dB typ.; invariant performance from +2.5 to 16 VDC; low current 20 mA typ.; ESD circuit protection of 15 KV; advanced multipath rejection; and increased system accuracy.
AV33 & AV34 	The AV33 and AV34 have been designed to support high accuracy aerial, land and marine applications in one small, compact design. The rugged 4 hole bulkhead mounting allows this antenna to be used in the most challenging of environments. **Features** include comprehensive GNSS support (AV33: support for GPS L1, GLONASS L1, Galileo E1 and BeiDou B1; AV34: support for GPS and GLONASS L1/L2 signals); low profile fuselage/bulkhead mounting; and sub-centimeter phase center repeatability.
AV59 	The AV59 Aviation GNSS Antenna is a robust, low-multipath antenna with comprehensive GNSS support, designed to support centimeter-level accuracy on aerial, land and marine applications. **Features** include comprehensive GNSS support, including GPS modernisation signals, GLONASS, BeiDou, Galileo, QZSS and IRNSS; SBAS and L-Band support; 8 hole bulkhead mounting for the most challenging of environments; sub-centimeter phase center repeatability; and availability in dark green in addition to standard white.
AG25 & GA810 	The AG25 and GA810 are general purpose GNSS rover antennas ideal for dynamic applications where position and heading are required. The AG25 with its magnetic mount for easy installation supports land applications and the GA810 with its threaded mount supports marine applications. These antennas offer excellent OmniSTAR (L-Band), GPS and GLONASS signal reception, making them ideal for use with the OmniSTAR G2 service as well as GPS/GLONASS positioning and heading applications. **Features** include comprehensive GNSS support, including GPS modernisation signals, GLONASS, BeiDou, Galileo, QZSS and IRNSS; OmniSTAR and RTX support; support for MSS narrowband and wideband; and a rugged and 100 % humidity proof design.
GA830 	The GA830 is designed to support centimeter-level accuracy for land and marine applications. The threaded mount and rugged enclosure allows the antenna to be used in harsh conditions, intended for installation on structures/vehicles such as construction barges, pile driving rigs, marine vessels and cranes. **Features** include support for current and near-future GNSS signals from GPS, GLONASS, Galileo, BeiDou, QZSS and IRNSS; robust low-elevation satellite tracking; high rejection RF filtering; OmniSTAR and Trimble RTX support; and MSK beacon support for marine applications.
Zephyr 3s 	Zephyr 3 antennas are rugged and durable, with millimetre accuracy, and offer full support for current and near-future GNSS signals including GPS, GLONASS, Galileo, BeiDou, OmniSTAR, RTX, and SABS. Within the range is the Zephyr 3 Rugged, designed for high vibration and shock environments; Zephyr 3 Rover, optimised for precision RTK and roving; and Zephyr 3 Base, ideal for all base station applications. **Features** include comprehensive GNSS support; robust low-elevation satellite tracking; minimised multipath; sub-millimetre phase center repeatability; and additional Iridium and Japanese LTE filtering.

The Integrated Technologies division of Trimble provides field-proven, high precision GNSS positioning technology to original equipment manufacturers (OEM) and system integrators, enabling product differentiation and a competitive edge in the marketplace, together with maximised productivity and enhanced profitability. This Trimble InTech technology serves a broad cross-section of major markets, including geomatics, construction, agriculture, mining, autonomous vehicle guidance, marine, energy, robotics, avionics and oil & gas.

Trimble InTech GNSS receivers deliver industry-leading, centimeter-level positioning and are designed for easy incorporation into specialised or custom hardware enclosures. In addition, Trimble's OEM GNSS receiver modules harness all constellation signals from GPS, GLONASS, Galileo and BeiDou to provide fast cm-level RTK initialisation with proven low-elevation tracking (decimeter positioning options are also available). Further to a wide range of ruggedly dependable receiver modules and enclosures, the Trimble OEM GNSS portfolio also offers a selection of robust, high performance, low multi-path, multiband GNSS antennas that are built for operation in even the harshest of environments. With these benefits, together with connectivity options for fast data transfer, as well as receiver configuration via standard web browsers, industry professionals trust Trimble embedded positioning technologies as the core navigation for their precision applications.

In addition to high quality and innovative technology, service and support are also hallmarks of Trimble. Therefore, when choosing Trimble you can be rest assured that your projects will be kept running continuously and efficiently.

For more information visit www.trimble.com/Precision-GNSS

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