

TRIMBLE OEM GNSS RECEIVERS

Trimble's OEM GNSS offers centimeter-level positioning GNSS technology to system integrators. The GNSS receivers are designed for easy incorporation into specialized 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 initialization with proven low-elevation tracking. Decimeter positioning options are also available.

Trimble's OEM GNSS receiver portfolio offers a wide range of receiver modules as well as rugged enclosures. The products are designed for rugged dependability. Customers benefit from 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.



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QUALITY

At Trimble, delivering our products and services with quality is an integral part of how we do our work and how our products work for our clients. Quality is a commitment that is woven through every aspect of our business in order to provide our customers with the best in class products and solutions.

INNOVATION

Innovation remains at the core of Trimble's identity, as it has from the beginning. Our high level of R & D expenditures ensure we continue to push the frontiers of what is possible.

PRECISION

Trimble delivers industry-leading, centimeter-level positioning technology for applications that require high levels of precision. Customers can rely on the accuracy of measurements, positioning, or orientation.

INTEGRATION

Trimble products and solutions provide seamless integration for OEMs, whatever the application, with complete product integration no matter how complex. Trimble offers comprehensive, integrated solutions for specialized or custom hardware solutions.

PERFORMANCE

Trimble supplies comprehensive solutions that maximize performance. Our solutions offer specialized design and greater performance required to support a broad range of equipment and applications required by our customers and partners.

RELIABILITY

Trimble offers outstanding reliability in a wide range of guidance or control applications. Built on a solid framework of achievement, accuracy and consistent dependability of performance, customers can trust Trimble solutions.

FLEXIBILITY

Trimble products and solutions are easily adaptable to a diverse range of applications. Our customers benefit from advanced technology that is customizable to fit their specific business requirements. Interoperability provides a mix and match approach to solving customer's needs.

CUSTOMER FOCUS

At the center of Trimble's past, and future, success is an intimate knowledge of the user requirements that can be translated into practical and successful outcomes for the user.

SERVICE & SUPPORT

Quality, technology and service are the hallmarks of Trimble. With easy access to customer service, our customers are able to keep running continuously and efficiently. Our goal is your satisfaction, plain and simple.



OEM GNSS RECEIVERS

High-precision
positioning solutions
for the system integrator.

INTEGRATED TECHNOLOGIES

The Integrated Technologies division of Trimble provides high-precision GNSS positioning solutions and robust Wireless Communications that maximize productivity and enhance profitability for our customers.

Integrators may leverage a range of GNSS and Wireless Communication modules to serve a broad cross-section of major markets. Some of these markets include survey, autonomous vehicle guidance, energy, agriculture, robotics, avionics, port automation, marine, mining, and oil & gas.



GNSS SINGLE FREQUENCY



BD910

The BD910 is a small GNSS receiver board for centimeter-level RTK positioning and is ideal for high-precision and control applications.

Key Features:

- 220 Channels
- GPS, GLONASS, Galileo, BeiDou
- Fully EMI shielded module
- RS232, USB and Ethernet interfaces
- Centimeter-level position accuracy

GNSS DUAL FREQUENCY



BD920

The BD920 is a small GNSS receiver board ideal for high-precision and control applications and features centimeter-level RTK positioning.

Key Features:

- 220 Channels
- GPS, GLONASS, Galileo
- Fully EMI shielded module
- RS232, USB and Ethernet interfaces
- Centimeter-level position accuracy



BD920-W3G

The BD920-W3G module has been designed with integrated cellular communications to simplify the task of receiving and transmitting data such as RTK corrections.

Key Features:

- 220 Channels
- GPS, GLONASS, Galileo
- Fully EMI shielded module
- Integrated Bluetooth™/Wi-Fi & 3.5G Cellular Modem
- RS232, USB and Ethernet interfaces
- Centimeter-level position accuracy

GNSS TRIPLE FREQUENCY



BD930

The BD930 GNSS board delivers fast and reliable RTK initializations for 1–2 centimeter positioning. Models range from an autonomous GPS L1 option to a four constellation triple frequency RTK configuration.

Key Features:

- 220 Channels
- GPS, GLONASS, Galileo, BeiDou
- EMI shielded module
- RS232, USB and Ethernet interfaces
- Centimeter-level position accuracy



BD930-UHF

The BD930-UHF integrates the latest UHF receiver modems allowing the system to instantly receive corrections from reference stations broadcasting on UHF.

Key Features:

- 220 Channels
- GPS, GLONASS, Galileo, BeiDou
- Integrated 403-473 MHz UHF receiver
- EMI shielded module
- RS232, USB and Ethernet interfaces
- Centimeter-level position accuracy



BD970

The BD970 GNSS board features on-board multipath mitigation, proven low elevation tracking and fast RTK initialization for a variety of applications.

Key Features:

- 220 Channels
- GPS, GLONASS, Galileo, BeiDou
- RS232, USB, Ethernet or CAN Interfaces
- Centimeter-level position accuracy



BD982

The BD982 GNSS board offers precise position and Heading. It delivers RTK baselines between two connected antennas and to a remote base station. It is designed with dual antenna inputs for precise Heading.

Key Features:

- 2 x 220 Channels
- GPS, GLONASS, Galileo, BeiDou
- OmniSTAR VBS/XP/G2/HP
- RS232, USB, Ethernet or CAN Interfaces
- Centimeter-level position accuracy

OEM GNSS FAMILY OF PRODUCTS

Positioning Solutions for System Integrators

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	Size MM	Connector	Channels	Max Update Hz.	GPS	GLONASS	Galileo	Beidou	SBAS	QZSS	RTK	L-Band	Heading	Attitude	RTX*
BD910	41 x 41 x 7	80-pin	220	20	L1	L1	E1	B1	L1	L1	✓	–	–	–	–
BD920	51 x 41 x 7	80-pin	220	20	L1/L2/L5	L1/L2	E1	–	L1	L1/L2C	✓	–	–	–	–
BD930	51 x 41 x 7	80-pin	220	20	L1/L2/L5	L1/L2/L3	E1/E5A/E5B	B1/B2	L1/L5	L1/L2C/L5	✓	–	–	–	IP
BD935-INS	60 x 67 x 15	44-pin	336	100	L1/L2/L5	L1/L2	E1/E5A/E5B	B1/B2	L1/L5	L1/L2C/L5	✓	–	✓	✓	IP
MB-TWO	71 x 46 x 11	28-pin	240	50	L1/L2	L1/L2	E1/E5B	B1/B2	L1	L1/L2	✓	✓	✓	✓	IP/L
BD970	100 x 60 x 12	24-pin + 6-pin	220	50	L1/L2/L5	L1/L2	E1/E5A/E5B	B1/B2	L1/L5	L1/L2C/L5	✓	–	–	–	IP
BD982	100 x 85 x 12	40-pin	2 x 220	50	L1/L2/L5	L1/L2	E1/E5A/E5B	B1/B2	L1/L5	L1/L2C/L5	✓	✓	✓	–	IP/L

*RTX CenterPoint® or RangePoint™ via IP and/or L-Band

GNSS + HEADING / ATTITUDE



BD982

The BD982 GNSS board offers precise position and Heading. It delivers RTK baselines between two connected antennas and to a remote base station. It is designed with dual antenna inputs for precise Heading.

Key Features:

- 2 x 220 Channels
- GPS, GLONASS, Galileo, BeiDou
- OmniSTAR VBS/XP/G2/HP
- RS232, USB, Ethernet or CAN Interfaces
- Centimeter-level position accuracy



BX982

The BX982 houses the BD982 GNSS receiver in a rugged package to allow for rapid integration for cm-level positioning and precise heading. It is designed with dual antenna inputs for precise Heading.

Key Features:

- 2 x 220 channels
- GPS, GLONASS, Galileo, BeiDou
- OmniSTAR VBS/XP/G2/HP
- Flexible RS232, USB, Ethernet or CAN Interfaces
- Centimeter-level position accuracy



MB-TWO

The MB-Two provides faster Heading acquisition and additional GNSS signals. In addition, two MB-Two boards may be used for Precise Platform Position (P3) + 3D Attitude using data from three antennas.

Key Features:

- 240 Channels
- GPS, GLONASS, Galileo, BeiDou
- Serial, USB and Ethernet interfaces
- RTX CenterPoint® or RangePoint™ via IP and/or L-Band
- Centimeter-level position accuracy



ABX-TWO

The ABX-Two houses the MB-Two and provides faster Heading acquisition and additional GNSS signals. Two MB-Two boards may be used for Precise Platform Position (P3) + 3D Attitude using data from three antennas.

Key Features:

- 240 Channels
- GPS, GLONASS, Galileo, BeiDou
- Flexible serial, USB and Ethernet interfaces
- RTX CenterPoint® or RangePoint™ via IP and/or L-Band
- Centimeter-level position accuracy

GNSS-INERTIAL + ATTITUDE



BD935-INS

The BD935-INS is a triple frequency GNSS receiver for precise position and an integrated MEMS inertial sensor package for 3-D orientation for applications requiring position and attitude. The GNSS + Inertial combination delivers more stability and robustness than GNSS alone. It supports both triple frequency for the GPS and GLONASS constellations plus dual frequency from BeiDou and Galileo.

Key Features:

- 336 Channels
- GPS, GLONASS, Galileo, BeiDou
- Integrated 3-D Inertial sensor package
- EMI shielded module
- RS232, USB and Ethernet interfaces
- Centimeter-level position accuracy



BX935-INS

The BX935-INS houses the BD935-INS and is designed for applications requiring continuous centimeter accuracy in a compact, rugged package. Integrated inertial sensors provide robust high accuracy positions in all environments. It supports both triple frequency for the GPS and GLONASS constellations plus dual frequency from BeiDou and Galileo.

Key Features:

- 336 Channels
- GPS, GLONASS, Galileo, BeiDou
- Integrated 3-D Inertial sensor package
- RS232, USB and Ethernet interfaces
- Centimeter-level position accuracy