

OEM GNSS Receivers and Enclosures

Trimble GNSS technology delivers position integrity and localization as it relates to the overall safety and accuracy of operations. With the increase in demand for high-quality, reliable positioning, Trimble has developed leading high-precision solutions to ensure the application can operate successfully in all conditions. Whether you need positioning tools that help you do a job better, faster, cheaper, greener or safer, we've got a full range of products that put reliable solutions in your grasp.

	BD9250	BD9250s	BD940	BD940-INS	BX940	AX940	AX940i	BD970	BD982	BX982	BD990	BD922	BD922-INS	BX992
														
Technology	Maxwell 7	Maxwell 7	Maxwell 7	Maxwell 7	Maxwell 7	Maxwell 7	Maxwell 7	Maxwell 6	Maxwell 6	Maxwell 6	Maxwell 7	Maxwell 7	Maxwell 7	Maxwell 7
Size (mm)	71×46×11	71×46×11	51×41×7	67×60×15	149×93×43	221×218×52	221×218×52	100×60×11.6	100×84.9×11.5	261×140×55	100×60×11.6	100×60×11.6	100×60×11.6	185×93×43
Weight (g)	25	25	27	60	660	660	660	62	92	1600	54	60	62	760
Channels	336	336	336	336	336	336	336	220	2×220	2×220	1×336	2×336	2×336	2×336
Max. Update Rate (Hz)	20	20	50	100	100	50	100	50	50	50	50	50	100	100
GPS	L1, L2 or L5	L1, L2 or L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5
GLONASS	L1, L2 or L3	L1, L2 or L3	L1, L2, L3	L1, L2, L3	L1, L2, L3	L1, L2, L3	L1, L2, L3	L1, L2	L1, L2, L3	L1, L2, L3	L1, L2, L3	L1, L2, L3	L1, L2, L3	L1, L2, L3
BeiDou	B1, B2	B1, B2	B1, B2	B1, B2	B1, B2	B1, B2	B1, B2	B1, B2	B1, B2	B1, B2	B1, B2, B3	B1, B2, B3	B1, B2, B3	B1, B2, B3
Galileo	E1, E5a, E5b	E1, E5a, E5b	E1, E5a, E5b	E1, E5a, E5b	E1, E5a, E5b	E1, E5a, E5b	E1, E5a, E5b	E1, E5a, E5b	E1, E5a, E5b	E1, E5a, E5b	E1, E5a, E5b, E6	E1, E5a, E5b, E6	E1, E5a, E5b, E6	E1, E5a, E5b, E6
QZSS	L1, L2 or L5	L1, L2 or L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5
NavIC	L5	L5, S-band	L5	L5	L5	L5	L5	-	-	-	L5	L5	L5	L5
SBAS	L1, L5	L1, L5	L1, L5	L1, L5	L1, L5	L1, L5	L1, L5	L1, L5	L1, L5	L1, L5	L1, L5	L1, L5	L1, L5	L1, L5
L-Band / MSS	•	-	•	•	•	•	•	-	•	•	•	•	•	•
Trimble ProPoint Capable	•	•	•	•	•	•	•	-	-	-	•	•	•	•
Trimble RTX™	IP / L	IP	IP / L	IP / L	IP / L	IP / L	IP / L	IP	IP / L	IP / L	IP / L	IP / L	IP / L	IP / L
OmniSTAR®	•	-	•	•	•	•	•	-	•	•	•	•	•	•
RTK	•	•	•	•	•	•	•	•	•	•	•	•	•	•
INS Attitude / Positioning	-	-	-	•	•	-	•	-	-	-	-	-	•	•
GNSS Heading	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	• / -	• / -	- / -	• / -	• / -	• / -
Integrated Wi-Fi, Bluetooth	-	-	-	-	-	-	•	-	-	-	-	-	-	-
Connector	28-pin	28-pin	80-pin	44-pin	DE9&DA26	26-pin	26-pin	24-pin 6-pin	40-pin	DE9&DA26	44-pin	44-pin	44-pin	DE9&DA26



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OEM GNSS Antennas

	Trimble AV16	Trimble AV17	Trimble AV28	Trimble AV33	Trimble AV34	Trimble AV39	Trimble AV59	Trimble LV59	Trimble AG25/ GA810	Trimble GA830	Zephyr 3 Rover	Zephyr 3 Base	Zephyr 3 Rugged	
														
Part Number	120982-16	120982-17	112735	83553	86362	105728-10	C02992	C03167	AG25:99038-00-INT GA810:99810-30-INT	44830-00-INT	105000-50-INT	115000-50-INT	125000-10-INT	125000-30-INT
Design Type	UAV / UAS	UAV / UAS	Aviation	Aviation	Aviation	Aviation ARINC743 TSO certified	Aviation	Land / Vehicle	Land / Vehicle	Marine / Land / Vehicle	Land / Vehicle	Land / Geodetic	Land / Marine / Geodetic	Land / Marine / Geodetic
Diameter (mm)	44.2	44.2	66.0	89.0	89.0	142.7×111.0	146.0	146.0	161.0	149.0	165.0	343.0	219.0	187.0
Thickness (mm)	62.4	62.4	21.0	21.0	21.0	37.6	39.0	39.0	76.0	99.0	76.0	79.0	125.0	86.0
Weight (g)	37	42	185	200	210	390	300	480	570	820	640	1360	2190	1790
Mounting style	SMA male	SMA male	3/4" through Hole mount	Bulkhead/ Flush	Bulkhead/ Flush	Bulkhead / Flush ARINC 743 Footprint	Bulkhead / Flush	5/8" Thread	5/8" Thread + Magnets	5/8" Thread	5/8" Thread	5/8" Thread	3" Mast Mount	5/8" Thread
GPS	L1, L2	L1, L2, L5	L1, L2, L5	L1	L1, L2	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5
GLONASS	L1, L2	L1, L2, L3	L1, L2, L3	L1	L1, L2	L1, L2, L3	L1, L2, L3	L1, L2, L3	L1, L2, L3	L1, L2, L3	L1, L2, L3	L1, L2, L3	L1, L2, L3	L1, L2, L3
Galileo	E1	E1, E5a, E5b	E1, E5a, E5b	E1	E1	E1, E5a, E5b	E1, E5a, E5b	E1, E5a, E5b	E1, E5a, E5b, E6	E1, E5a, E5b, E6	E1, E5a, E5b, E6	E1, E5a, E5b, E6	E1, E5a, E5b, E6	E1, E5a, E5b, E6
BeiDou	B1	B1, B2	B1, B2	B1	B1	B1, B2	B1, B2	B1, B2	B1, B2, B3	B1, B2, B3	B1, B2, B3	B1, B2, B3	B1, B2, B3	B1, B2, B3
QZSS	L1, L2	L1, L2, L5	L1, L2, L5	L1	L1, L2	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5, LEX	L1, L2, L5, LEX	L1, L2, L5, LEX	L1, L2, L5, LEX	L1, L2, L5, LEX	L1, L2, L5, LEX
IRNSS	-	L5	L5	-	-	L5	L5	L5	L5	L5	L5	L5	L5	L5
SBAS	•	•	•	•	•	•	•	•	•	•	•	•	•	•
L-Band	•	•	•	-	-	•	•	•	•	•&MSK Beacon	•	•	•	•
Phase Center	<10 mm	<10 mm	<10 mm	<10 mm	<10 mm	<10 mm	<10 mm	<10 mm	<4 mm hor <14 mm ver	<5 mm hor	<2 mm	<2 mm	<2 mm	<2 mm
Special Features	-	-	-	-	-	Special Filtering	-	-	AG25: 3 Magnets and Thread GA810: Thread only	Special Filtering, 75g Shock	Special Filtering	Special Filtering	Special Filtering, 75g Shock	Special Filtering, 75g Shock
Gain	35dB	35dB	37dB	43dB	43dB	38dB	39dB	39dB	48dB	45dB	50dB	50dB	50dB	50dB
DC-Feed	2.2V-16V 21mA	2.2V-16V 21mA	2.5V-16V 20mA	4.5V-18V 35mA	4.5V-18V 35mA	4.2V-15V 130mA	4.2V-15V 65mA	4.2V-15V 65mA	3.4V-12V 130mA	3.3V-15V 110mA	3.5V-20V 125mA	3.5V-20V 125mA	3.5V-20V 125mA	3.5V-20V 125mA

High Performance

Trimble antennas have been designed to support high accuracy air, land and marine applications.

Multiple constellation support improves the number of satellites available for positioning, especially in obstructed environments. Trimble antennas are high-performance multiband GNSS antennas that are built with weather-resistant materials to allow operation in the most rugged of environments.

Robust, Low Multipath

Trimble antennas are robust, low-multipath GPS antennas that resist unwanted signal interference or multipath which can cause inaccurate measurements. Multipath is caused by signals being reflected from surfaces such as the ground, surrounding trees, or buildings.

Special Filtering

Some antennas offer special filtering against nearby Iridium and Japanese LTE transmissions.

Flexibility

Trimble antennas come in different designs for applications that require mounting on a pole or flush-mounted to a vehicle. The connection system on the underside of the antennas allow for easy removal of the antennas and protection of the attached cable from the environments.

Comprehensive GNSS Support

All Trimble antennas offer support for present and future GNSS signals, including GPS, GLONASS, Galileo and BeiDou. This ensures your antennas will operate with your present and most likely future GNSS receivers. This technology means any investment in a Trimble GNSS antenna will last for many years to come.

