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TRIMBLE PRECISION OEM

GNSS Antennas

TRANSFORMING THE WAY THE WORLD WORKS



Trimble Precision OEM GNSS

	Trimble AV33	Trimble AV34	Trimble AV37	Trimble AV39	L1/L2 Aviation	Trimble AV59	Trimble LV59
							
Part Number	83553	86362	82745-10 (Int) 82745 (US)	105728-10 (Int) 105728 (US)	C02817	C02992 (white) 98042 (green)	C03167
Design Type	Aviation	Aviation	Aviation TSO certified	Aviation TSO certified	Aviation TSO certified	Aviation	Land / Vehicle
Size (d) x thickness (cm) Weight (kg)	8.9 ^ø x 2.1 .21 kg	8.9 ^ø x 2.1 .21 kg	7.6 x 11.9 x 2.34 .28 kg	14.27 x 11.1 x 3.76 .39 kg	7.6 x 11.9 x 1.9 .22 kg	14.6 ^ø x 3.9 .30 kg	14.6 ^ø x 6.1 .48 kg
Mounting Style	Bulkhead/ Flush	Bulkhead/ Flush	Bulkhead/ Flush	Bulkhead/ Flush	Bulkhead/ Flush	Bulkhead/ Flush	5/8" Tread Mast
GPS	L1	L1, L2	L1, L2	L1, L2, L5	L1, L2	L1, L2, L5	L1, L2, L5
Glonass	L1	L1, L2	L1, L2	L1, L2, L3	L1, L2	L1, L2, L3	L1, L2, L3
Galileo	E1	E1	E1	E1, E5a, E5b	E1	E1, E5a, E5b	E1, E5a, E5b
BeiDou	B1	B1	B1	B1, B2	–	B1, B2	B1, B2
QZSS	L1	L1, L2	L1, L2	L1, L2, L5	L1, L2	L1, L2, L5	L1, L2, L5
SBAS	✓	✓	✓	✓	✓	✓	✓
L-Band	–	–	✓	✓	–	✓	✓
Phase Center	<10mm	<10mm	<10mm	<10mm	<10mm	<10mm	<10mm
Gain	43 dB	43 dB	43 dB	38 dB	40 dB	39 dB	39 dB
DC-Feed	4.5 V – 18V 35 mA	4.5 V – 18V 35 mA	5.0 V – 15V 70 mA	4.2 V – 15V 130 mA	5.0 V – 15V 75 mA	4.2 V – 15V 65 mA	4.2 V – 15V 65 mA

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.



Antennas

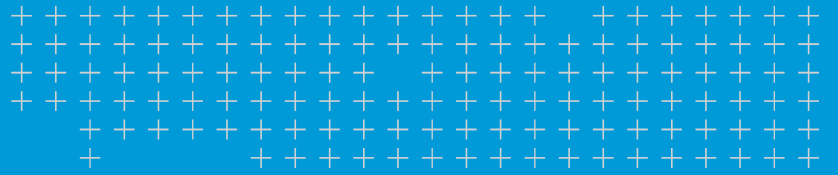
	Trimble AG25	Trimble GA810	Trimble GA830	Zephyr 2	Zephyr 2 Geodetic	Zephyr 2 Rugged 3" Mt.	Zephyr 2 Rugged	3870	Trimble AV14
									
	77038-00-INT	99810-00-INT	44830-00-INT	57970-10-INT	57971-10-INT	66241-10-INT	66241-00-INT		
	Land / Vehicle	Land / Vehicle	Marine / Land / Vehicle	Land / Vehicle	Land / Geodetic	Land / Vehicle	Land / Vehicle	UAV (rotor and medium size fixed)	UAV (rotor and medium size fixed)
	15.2° x 7.4 .59 kg	15.2° x 7.4 .59 kg	14.9° x 9.9 .82 kg	15.2° x 7.4 .64 kg	34.3° x 7.9 1.36 kg	25.4° x 11.1 1.8 kg	25.4° x 11.1 1.8 kg	6.6° x 4.9 .185 kg	2.8° x 5.8 0.025 kg
	5/8" Tread/ Mast + Magnets	5/8" Tread/ Mast	5/8" Tread/ Mast	5/8" Tread/ Mast	5/8" Tread/ Mast	5/8" Tread/ Mast + 3" Bracket	5/8" Tread/ Mast	Bulkhead/ Flush	Bulkhead/ Flush
	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2, L5	L1, L2	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	L1, L2
	E1, E5a, E5b, E6	E1, E5a, E5b, E6	E1, E5a, E5b, E6	E1, E5a, E5b, E6	E1, E5a, E5b, E6	E1, E5a, E5b, E6	E1, E5a, E5b, E6	-	-
	B1, B2, B3	B1, B2, B3	B1, B2, B3	B1, B2, B3	B1, B2, B3	B1, B2, B3	B1, B2, B3	-	-
	L1, L2, L5, LEX	L1, L2, L5, LEX	L1, L2, L5, LEX	L1, L2, L5, LEX	L1, L2, L5, LEX	L1, L2, L5, LEX	L1, L2, L5, LEX	L1, L2	L1, L2
	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓ & MSK Beacon	✓	✓	✓	✓	-	-
	<4mm Hor <14mm Ver	<4mm Hor <14mm Ver	<5mm Hor & Spec. Filtering	<2mm	<2mm	<2mm	<2mm	<7mm	TBD
	42 dB	42 dB	43 dB	50 dB	50 dB	50 dB	50 dB	35 dB	40 dB
	3.4 V – 12V 130 mA	3.4 V – 12V 130 mA	5.5 V – 18V 110 mA	3.5 V – 20V 125 mA	3.5 V – 20V 125 mA	3.5 V – 20V 125 mA	3.5 V – 20V 125 mA	2.5 V – 16DC 25 mA	3.5 V – 12DC 35 mA

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.

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.



Trimble Precision OEM + Inertial

Trimble's Precision OEM + Inertial division provides original equipment manufacturers (OEM) and system integrators the ability to offer continuous mobile positioning and high-accuracy orientation with precision GNSS technology.

Trimble Precision OEM + Inertial serves a broad cross-section of major markets with its precise positioning solutions. Some of these applications include geomatics, construction and machine control, agriculture, mining and unmanned vehicles for air, land and marine. OEMs and system integrators can integrate Trimble's field-proven precision GNSS technology into their products to achieve product differentiation and gain a competitive edge in the marketplace.

For more information visit www.Intech.trimble.com

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