
















High Precision GNSS Receiver Catalogue

Click to view product	Manufacturer	Model Number	Part Number	Package	Constellations	Frequencies	L-Band / MSS	Channels	Max Update Rate (Hz)	Comms Radios	Dual Antenna	Inertial Support	Operating Voltage	Power (Watts)	Dimensions (mm)	Mounting	Connector	Ruggedness	Application
Multi-Constellation / Multi-Frequency Receivers for CM Level Accuracy																			
	Trimble	BD940	90940-88	OEM Module	GPS, GLONASS, BEIDOU, GALILEO, IRNSS QZSS, SBAS	L1, L2C, L2E, L5, L3 CDMA, E1, E5A, E5B, E5ALTB0C, E6, B1, B2, B3, L1 SAIF, LEX	Trimble RTX Omnistar VBS, HP and XP	336 Tracking Channels	50	×	×	×	3.3 Vdc	2.2	51 x 41 x 7	PCB Mount	80-pin	MIL810F MIL810D	UAV / UAS, Smart Antennas
	Trimble	BD940-INS	112078-68	OEM Module	GPS, GLONASS, BEIDOU, GALILEO, IRNSS QZSS, SBAS	L1, L2C, L2E, L5, L3 CDMA, E1, E5A, E5B, E5ALTB0C, E6, B1, B2, B3, L1 SAIF, LEX	Trimble RTX Omnistar VBS, HP and XP	336 Tracking Channels	100	×	×	Onboard MEMs Inertial Sensors	5.5 to 30 Vdc	2.2	60 x 67 x 15	PCB Mount	44-pin	MIL810F MIL810D	UAV / UAS, Smart Antennas
	Trimble	BX940	110854-68	Rugged Enclosed	GPS, GLONASS, BEIDOU, GALILEO, IRNSS QZSS, SBAS	L1, L2C, L2E, L5, L3 CDMA, E1, E5A, E5B, E5ALTB0C, E6, B1, B2, B3, L1 SAIF, LEX	Trimble RTX Omnistar VBS, HP and XP	336 Tracking Channels	100	×	×	Onboard MEMs Inertial Sensors	9 to 30 Vdc	2.3	149 x 93 x 43	Screw Hole Mounting	DE9 & DA26	MIL810F MIL810D	Machine Guidance & Control
	Trimble	BD970	71970-15	OEM Module	GPS, GLONASS, BEIDOU, GALILEO, QZSS, SBAS	L1, L2C, L2E, L5, E1, E5A, E5B, E5ALTB0C, E6, B1, B2, L1 SAIF	X	220	50	×	×	×	3.3 Vdc	1.5	100 x 60 x 11.6	PCB Mount	24-pin & 6-pin	MIL810F MIL810D	UAV / UAS, Smart Antennas, Machine Control
	Trimble	BD982	77911-15	OEM Module	GPS, GLONASS, BEIDOU, GALILEO, QZSS, SBAS	L1, L2C, L2E, L5, E1, E5A, E5B, E5ALTB0C, E6, B1, B2, L1 SAIF	X	2 x 220 Tracking Channels	50	×	✓	×	3.3 Vdc	2.1	100 x 84.9 x 11.6	PCB Mount	40-pin	MIL810F MIL810D	Machine Guidance & Control
	Trimble	BX982	85992-15	Rugged Enclosed	GPS, GLONASS, BEIDOU, GALILEO, QZSS, SBAS	L1, L2C, L2E, L5, E1, E5A, E5B, E5ALTB0C, E6, B1, B2, L1 SAIF	X	2 x 220 Tracking Channels	50	×	✓	×	9 to 28 Vdc	4.1	261 x 140 x 55	Screw Hole Mounting	DE9 & DA26	MIL810F MIL810D	Machine Guidance & Control
	Trimble	BD990	100990-88	OEM Module	GPS, GLONASS, BEIDOU, GALILEO, IRNSS QZSS, SBAS	L1, L2C, L2E, L5, L3 CDMA, E1, E5A, E5B, E5ALTB0C, E6, B1, B2, B3, L1 SAIF, LEX	Trimble RTX Omnistar VBS, HP and XP	336 Tracking Channels	50	×	✓	×	3.3 Vdc	1.7	100 x 60 x 11.6	PCB Mount	44-pin	MIL810F MIL810D	Machine Guidance & Control

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	Trimble	BD990	100992-88	OEM Module	GPS, GLONASS, BEIDOU, GALILEO, IRNSS QZSS, SBAS	L1, L2C, L2E, L5, L3 CDMA, E1, E5A, E5B, E5ALTB0C, E6, B1, B2, B3, L1 SAIF, LEX	Trimble RTX Omnistar VBS, HP and XP	2 x 336 Tracking Channels	50	×	✓	×	3.3 Vdc	2.3	100 x 60 x 11.6	PCB Mount	44-pin	MIL810F MIL810D	Machine Guidance & Control
	Trimble	BD992-INS	120992-88	OEM Module	GPS, GLONASS, BEIDOU, GALILEO, IRNSS QZSS, SBAS	L1, L2C, L2E, L5, L3 CDMA, E1, E5A, E5B, E5ALTB0C, E6, B1, B2, B3, L1 SAIF, LEX	Trimble RTX Omnistar VBS, HP and XP	2 x 336 Tracking Channels	100	×	✓	✓	3.3 Vdc	2.6	100 x 60 x 11.6	PCB Mount	44-pin	MIL810F MIL810D	Machine Guidance & Control
	Trimble	BX992	108567-88	Rugged Enclosed	GPS, GLONASS, BEIDOU, GALILEO, IRNSS QZSS, SBAS	L1, L2C, L2E, L5, L3 CDMA, E1, E5A, E5B, E5ALTB0C, E6, B1, B2, B3, L1 SAIF, LEX	Trimble RTX Omnistar VBS, HP and XP	2 x 336 Tracking Channels	100	×	✓	✓	9 to 30 Vdc	3	185 x 93 x 43	Screw Hole Mounting	DE9 & DA26	MIL810F MIL810D	Machine Guidance & Control
	Trimble	UAS1	117283-02	OEM Module	GPS, GLONASS, BEIDOU, GALILEO, QZSS, SBAS	L1, L2E, L2C, B1, E1, L1 SAIF	Trimble RTX Omnistar VBS, HP and XP	336 Tracking Channels	50	×	×	×	7 to 60 Vdc	2	71 x 46 x 13	PCB Mount	26-pin	MIL810F MIL810D	UAV / UAS
	Trimble	MB-Two	106960-12	OEM Module	GPS, GLONASS, BEIDOU, GALILEO, QZSS, SBAS	L1+L2, B1+B2, E1+E5b, SBAS L1	Trimble RTX	240 tracking Channels	50	×	✓	×	3.2 to 4.5 Vdc	1.2	71 x 46 x 11	PCB Mount	28-pin	MIL810F MIL810D	UAV, Machine Control
	Trimble	ABX-Two	107456-12	Rugged Enclosed	GPS, GLONASS, BEIDOU, GALILEO, QZSS, SBAS	L1+L2, B1+B2, E1+E5b, SBAS L1	Trimble RTX	240 tracking Channels	50	×	✓	×	9 to 36 Vdc	3 to 5.5	190 x 58 x 160	Screw Hole Mounting	Various Refer Data Sheet	MIL810F MIL810D	UAV, Machine Control
	ComNav Marine	G7	31910005	Rugged Enclosed	GPS, GLONASS, BEIDOU, GALILEO, QZSS, SBAS	L1, L2C, L2E, L5, L3 CDMA, E1, E5A, E5B, E5ALTB0C, E6, B1, B2, B3, L1 SAIF, LEX	Trimble RTX Omnistar VBS, HP and XP	336 Tracking Channels	50	Wi-Fi UHF 4G Cellular	✓	×	9 to 36 Vdc	4.3	160 x 120 x 56	Screw Hole Mounting	Various Refer Data Sheet	IP67 1m Drop Mil-STD-810G	Agriculture Mining Positioning AGV's
Smart Antenas - Combined Antenna & Receiver																			
	ComNav Marine	G9	31910004	Rugged Enclosed	GPS, GLONASS, BEIDOU, GALILEO, SBAS	L1, L2C, L2E, L5, L1P, L2P, L3, E1, E5A, E5B, B1, B2	×	220 Tracking Channels	50	Wi-Fi UHF 4G Cellular	×	×	12 to 36 Vdc	3.2	160 x 158 x 996	Screws or Ploem Mount	Various Refer Data Sheet	IP67 Mil-Std-810	Agriculture Mining Positioning AGV's

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	ComNav Marine	G9H	20910005	HandHeld Controller	GPS, GLONASS, BEIDOU, GALILEO, SBAS	L1, L2C, L2E, L5, L1P, L2P, L3, E1, E5A, E5B, B1, B3	×	Software Based	NA	Wi-Fi 4G Cellular	×	×	Battery	16 Hours Operating	221 x 87 x 19	HandHeld	N/A	IP67 Mil-Std-811	Agriculture Mining Positioning AGV's
	Harxon	TS302	TS302	Rugged Enclosed	GPS, GLONASS, BEIDOU, GALILEO, SBAS	L1, B1, E1	×	432 Channels	10	Bluetooth UHF	×	×	9 to 30 Vdc	3.5	160 x 80	Magnet, Screws or Pole Mount	2 x RS232	IP67 Mil-Std-810	Vehicle and Machine Tracking
	Harxon	TS304	TS304	Rugged Enclosed	GPS, GLONASS, BEIDOU, GALILEO, SBAS	L1, B1, E1	×	432 Channels	10	Bluetooth 4G Cellular	×	×	9 to 30 Vdc	3.5	160 x 80	Magnet, Screws or Pole Mount	2 x RS232	IP67 Mil-Std-810	Vehicle and Machine Tracking
	Harxon	TS308	TS308	Rugged Enclosed	GPS, GLONASS, BEIDOU, GALILEO, SBAS	L1, B1, E1	×	432 Channels	10	Bluetooth UHF 4G Cellular	×	×	9 to 30 Vdc	3.5	160 x 80	Magnet, Screws or Pole Mount	2 x RS232	IP67 Mil-Std-810	Vehicle and Machine Tracking
	Harxon	TS108-Pro Rover	TS108-Pro Rover	Rugged Enclosed	GPS, GLONASS, BEIDOU, GALILEO, SBAS	L1, L2, L5, B1, B2, B3, E1, E5a, E5b	×	433 Channels	11	Bluetooth UHF 4G Cellular	×	×	9 to 30 Vdc	<4.5	160 x 80	Magnet, Screws or Pole Mount	2 x RS232	IP67 Mil-Std-810	Vehicle and Machine Tracking
	Harxon	TS103 Base	TS103 Base	Rugged Enclosed	GPS, GLONASS, BEIDOU, GALILEO, SBAS	L1, L2, L5, B1, B2, B3, E1, E5a, E5b	×	433 Channels	11	Bluetooth UHF	×	×	9 to 30 Vdc	<8.5	160 x 80	Magnet, Screws or Pole Mount	2 x RS232	IP67 Mil-Std-810	Vehicle and Machine Tracking
Rate of Turn for Vehicle Guidance																			
	ComNav Marine	RC3 Rate Compass	11510001	Rugged Enclosed	<2 deg. RMS	<1 deg. RMS	0.1 deg.	1 sec	10Hz NMEA 0183 20Hz NMEA 2000	1 deg. / sec	+/- 50 deg	<1 deg.	<3 deg.	9 to 16 Vdc	< 140 mA	Bracket & Hardware Included	113 x 63	IPX6	Vehicle Guidance

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