
















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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