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MS750

Dual Frequency RTK Receiver for Precise Dynamic Positioning

Key features and benefits

- · 20 Hz position update rate
- Less than 20 milliseconds position latency
- Centimeter-level position accuracy
- · Front panel display & keypad for status monitoring and configuration
- User-defined local coordinates direct from receiver
- Industry standard CAN bus interface

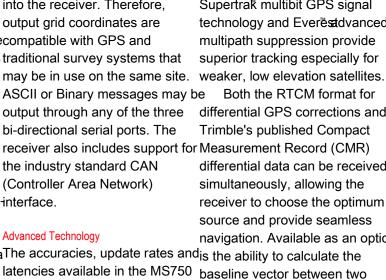
The MS750' represents the highest level of accuracy and response available from a dual frequency GPS receiver. The receiver is specifically designed to allow the easy integration of reliable centimeter-level positions to any guidance or control application.

Accuracy and Response Times

Dynamic platforms, require virtually instantaneous position reports multiple times per second The MS750 delivers positions to guidance or control loop software twenty times per second with a latency of less than 20 activated when desired. Local milliseconds. This responsivenessdatum and transformation is matched with a horizontal accuracy of two centimeters and into the receiver. Therefore, vertical accuracy of three centimeters. For the most precisecompatible with GPS and applications, the MS750 provides traditional survey systems that one centimeter accuracy horizontally at a 5 Hz rate with a ASCII or Binary messages may be small increase in latency.



The MS750 is designed to plug right into your application with minimal development. An easy to-interface. use application file interface enables the user to completely user-friendly built-in display and keyboard interface, or by the included Windows-based Configuration Toolbox software. Multiple configurations can be





stored in the receiver as files and interference experienced at

program receiver operation with aThe accuracies, update rates and is the ability to calculate the single command. Alternately, the latencies available in the MS750 receiver can be configured via theare made possible through a GPSmoving receivers to centimeter for demanding dynamic positioning applications. Reliable field of machine positioning, operation in the most adverse environments, such as radio

construction or mining sites, is a strict requirement. Custom parameters may be loaded directly esigned hardware with Supertralk multibit GPS signal technology and Everestdvanced multipath suppression provide superior tracking especially for Both the RTCM format for differential GPS corrections and Trimble's published Compact differential data can be received

simultaneously, allowing the receiver to choose the optimum source and provide seamless navigation. Available as an option baseline vector between two architecture specifically designed accuracy. The MS750 addresses a vast range of applications in the guidance and control.



Dual Frequency RTK Receiver for Precise Dynamic Positioning



MS750

Dual Frequency RTK Receiver for Precise Dynamic Positioning

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- · Centimeter accuracy, real-time positioning
- · 20 Hz position updates
- < 20 ms position latency
- Front panel display & keypad
- User-defined local coordinates direct from receiver
- 3 serial I/O ports
- 2 CAN ports
- 1 PPS Output
- · Trimble CMR Input/Output
- RTCM Input/Output
- One year hardware warranty
- · Compact, easy mounting design
- Synchronized 5 Hz position updates

OOPPTTIIOONNSS AANNDD AACCCCEESSSSOORRIJEESS

- Moving Base RTK
- Rugged L1/L2 machine mount antenna
- Micro-Centered Antenna
- 5 m, 7.5 m, 10 m, 24 m & 30 m antenna cables
- Data extension cable
- Extended hardware warranty
- · Firmware and Software update service

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MS750 Part Number 36577-00

Includes MS750 receiver, Configuration Toolbox software, operating manual, power/data cable, data/1 PPS cable

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Size 14.5cmW · 5.1cmH · 23.9cmD

(5.7°W · 2.0° H · 9.4°D)

Weight 1.0 kg (2.25 lbs)

Power 12VDC/24VDC, 9 Watts

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Operating temp -20°C to +60°C Storage temp -30°C to +80°C

MIL 810 E, Meth. 507.3 Proc III, Aggravated, Humidity

100% condensing

Vibration MIL 810 D, Tailored

Random 3gRMS Operating Random 6.2gRMS Survival

Mechanical Shock MIL 810 D

> ± 40 g Operating ± 75 g Survival

EMC

Radiated Emissions CISPR 12 Conducted Emissions SAF J1113/41

ISO/DIS 13766, 30V/m Radiated Immunity

±15KV Input Voltage Transients ISO 7637-2

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9 channels L1 C/A code, L1/L2 full cycle carries Tracking

Signal processing Supertrak Multibit Technology

Everest Multipath Suppression

Positioning mode Accuracy Latency 2 Max Rate 1cm+ 2ppm Horizontal 300ms 5 Hz Std Synchronized RTK

2cm+ 2 ppm Vertical

2cm+ 2ppm Horizontal < 20ms 20Hz Low Latency

3cm+ 2 ppm Vertical

DGPS < 1m < 20ms 20Hz

1 1 sigma level

² At maximum output rate

3 Dependent on data link throughput 4 Assumes 1 second data link delay

Initialization Automatic OTF (on-the-fly) while moving

Typically < 1 minute Time required

Up to 20 km from base for RTK Range

Start-up < 90 seconds from power on to positioning

< 30 seconds with recent ephemeris

Communications 3 · RS-232 ports. Baud rates up to 115,200

2 · CAN/J1939

Configuration Via front panel display & keypad,

Configuration Toolbox Software or user definable application files

Output Formats NMEA-0183: GGK, GGA, ZDA, VTG,

GST, PJT and PJK

Trimble Binary Streamed Output







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