

The Leader in Precision Solutions for Global Positioning

Variable Timing Pulse A 5 volt TTL signal, accurate to 200 nanoseconds in the stand alone mode; 10 nanoseconds in differential, may be generated at a programmable rate.

Event Marker An external input can be tagged with time and GPS data for applications such as aerial photogrammetry.

Receiver Autonomous Integrity Monitoring algorithms isolate inaccurate satellites, detecting anomalies even if satellite messages declare them healthy.

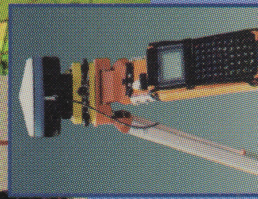


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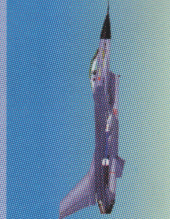
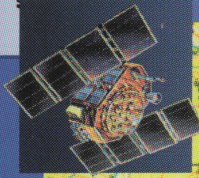
CHANNELS

Accuracy & Sensitivity

The G12 Super Sensor provides Precision L1 Code & Carrier phase data with mm level accuracy. It operates even in weak signal situations, such as under rotating helicopter blades, partial tree cover or satellite elevations down to 2 degrees.



RAIM



2 Sec Relock

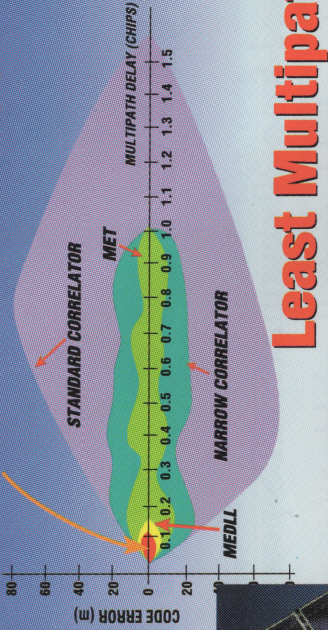
is dynamic-independent and not based on extrapolation... a feature particularly useful when a vehicle abruptly changes speed or direction during loss of lock.

Geoid & MagVar

Super Sensor includes accurate world-wide geoid height and magnetic variation models.

Ashtech's "Strobed Correlation" technique outperforms all other multipath reduction schemes, including MET and MEDLL

Ashtech "Strobed Correlator"™



Least Multipath

Super Sensor generates/accepts real-time differential GPS corrections in all RTCM formats, providing real-time position accuracy of less than 2 feet. Two RS232 serial ports (up to 115,000 baud) may be accessed independently: an additional port is also provided for synchronous communications.

50CM RTCM Differential



20,200/sec

Super Sensor delivers complete position, velocity and time solutions as well as raw code and carrier phase

cover or satellite elevations
down to 2 degrees.

2 Sec Relock

is dynamic-independent and not based on extrapolation... a feature particularly useful when a vehicle abruptly changes speed or direction during loss of lock.

Geoid & MagVar

Super Sensor includes accurate world-wide geoid height and magnetic variation models.

Up to 4th order tracking loops with variable bandwidths can operate under high velocity and acceleration - up to **20g's**



20,200/sec

Super Sensor delivers complete position, velocity and time solutions as well as raw code and carrier phase data 20 times per second and up to **200 times per second** as a requested option.

ODM



G12 Super Sensor measures only 4.25 x 2.25 x .44 inches and weighs only 2 ounces. Power consumption is 1.8 watt (5V).

New G12 Super Sensor ... better by the numbers!



Circle 35

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...just the latest from the leader
Ashtech GGx
GPS TECHNOLOGY