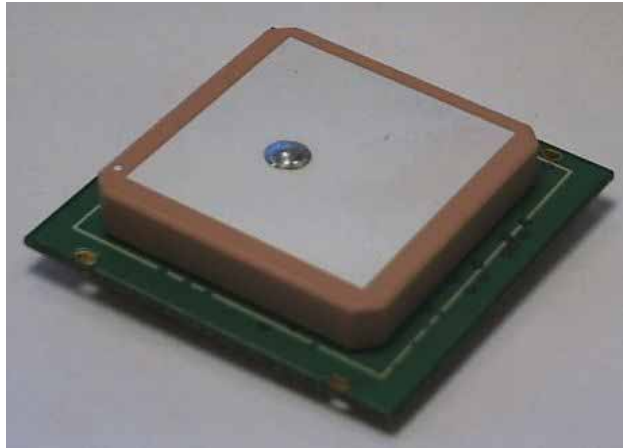




MTI-5 (UART Interface)

Fast Acquisition Enhanced Sensitivity GPS Sensor Module



GENERAL DESCRIPTION

The **MTI-5** is a compact all-in-one GPS module solution suitable for a broad range of end product applications, where fast and easy system integration and minimal development risk is required.

The **MTI-5** is optimized for good performance and low cost. Having fast time-to-first-fix and enhanced sensitivity, the **MTI-5** offers good navigation performance even in urban canyons.

Satellite-based augmentation systems, such as WAAS and EGNOS, are supported to yield improved accuracy.

UART interface is provided on the interface connector. Supply voltage of 3.6V~5.5V is supported.

KEY PRODUCT FEATURES

- SBAS (WAAS, EGNOS) support
- High sensitivity: -140dBm acquisition
-152dBm tracking
- Fast TTFF: < 10 second hot start
35 second warm start
45 second cold start
- 5m CEP accuracy
- UART/TTL interface
- Low current consumption: 40mA, typical



SPECIFICATIONS

Receiver	L1, 1575.42MHz 1.023MHz chip rate	Interface	UART/TTL
		Power Supply	3.6V ~ 5.5V
Accuracy	Position: 5m CEP Velocity: 0.1m/sec, without SA Time: ± 100 ns synchronized to GPS time	Current Consumption	40mA, typical
		Operating Temperature	-40°C ~ 85°C(not include battery)
Startup Time	Hot Start: < 10sec Warm Start: 35sec, average Cold Start: 45sec, average	Dimension	32.0mm (L) x 32.0mm (W) x 8.2mm (H)
		Weight	13g
Reacquisition	1s		
Sensitivity	-140dBm acquisition -152dBm tracking		
Dynamic Conditions	Altitude: <18,000m Velocity: <515m/s Acceleration: <4G		
GPS Protocol	NMEA-0183 V3.01 4800, 9600, 19200, 38400 baud Default 4800bps, 8, N, 1		
Datum	WGS-84		