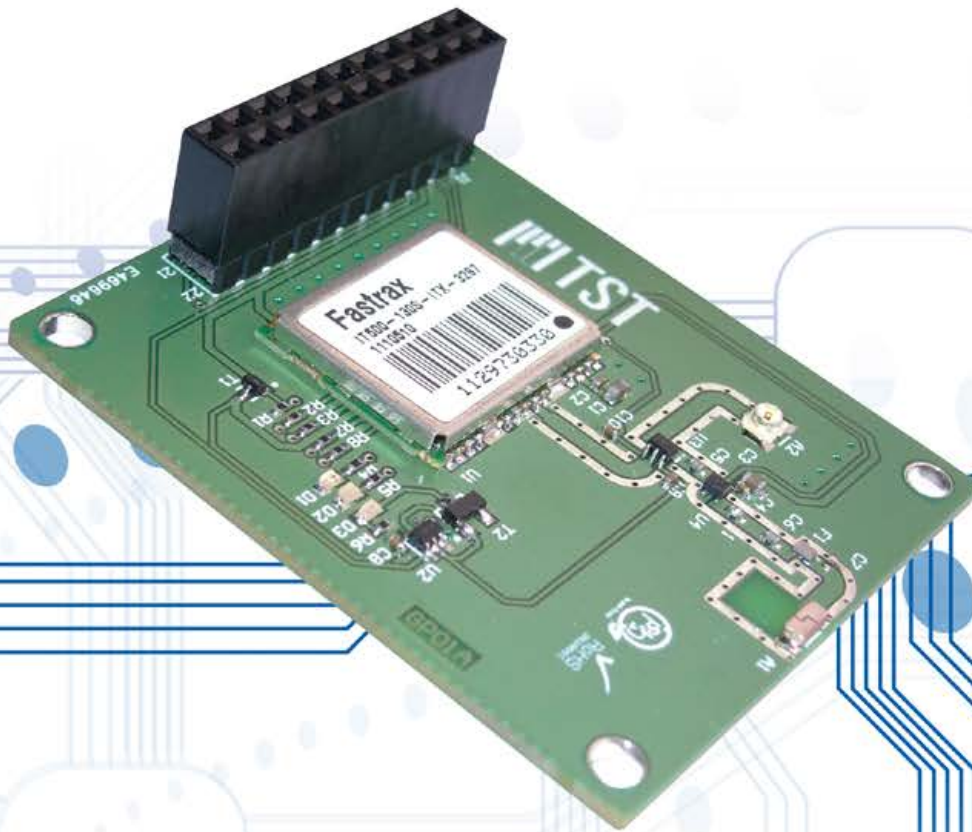


HIGH-ACCURACY, LOW-POWER GPS MODULE WITH GREAT SENSITIVITY



The GPS module features a very high sensitivity that allows satellite signal reception under extreme conditions where other GPS receivers fail. In a cold start with only -148 dBm received power the GPS module is able to capture its coordinates, and in navigation mode -165 dBm strength signal is enough.

The low-power module requires only 75 mW power, what enables battery operated mobile applications. The GPS module captures up to 10 fixes per second, what makes it ideal for extremely high dynamics applications. This GPS device offers also a high time synchronization of 1 usec and geographic precision of +/- 1.8 meters.

It is very simple to use and program the GPS module with the software libraries provided by TST.

KEY FEATURES

High sensitivity for operation in harsh environments

Low power, suited for battery applications

Up to 10 coordinates per second

Simple use with TST driver

ELECTRICAL	
Input voltage	3-3.7 VDC
Internal voltage	2.8 VDC
Current On	40 mA on average for navigation
Current stand-by	5 uA for back-up battery

MECHANICAL	
Dimensions	52 x 43 mm
Connectors	22 male pins for TSmoTe/TSgaTe connections UFL connector for external antenna

TIMES	
Cold start time	35 s
Hot start time	1 s

GPS PARAMETERS	
Sensitivity	-163 dBm (cold start), -175dBm (reacquisition), -180dBm (navigation)
Rate readings	Up to 10 reading / second
Coordinates accuracy	3m horizontal, 5m vertical
Speed accuracy	0,1 m/seg
Time accuracy	50 ns RMS

SOFTWARE INTERFACE	
Communication	TST Software library Native commands for UART

ENVIRONMENTAL	
Operation temperature	-30°C / +85°C
Storage temperature	-40°C / +85°C
Certificattions	CE, RoHS