

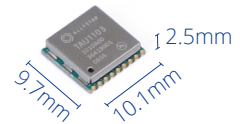
TAU1103

GNSS Positioning Module

Standard

PRODUCT DESCRIPTION

TAU1103 is a cost-effective dual-system positioning module which is based on Cynosure II architecture. It is capable of tracking GPS and BeiDou system signals. With a compact size and high integrated design, TAU1103 is easy to apply to navigation applications, especially friendly to a solution requiring a strict cost.



HIGHLIGHTS

- Low power consumption design
- Active antenna short circuit protection and open circuit detection
- Supports single system independent positioning and multi-system combining positioning
- Supports A-GNSS feature
- Compatible with mainstream GPS modules
- Highly integrated labelling module, the best cost-effective GNSS solution
- Supports BDS B1I/ GPS L1C/A

APPLICATIONS



Shared Bike



Asset Tracking



Fleet Management



Tbox

Product Selector:

Model	GNSS						Features			Interfaces				Accuracy			Grade		
	Band(S/D/T)	GPS	BDS	GLONASS	Galileo	IRNSS	Build-in LNA	Data Logging	Programmable (Flash)	D-GNSS	USB	UART	I2C	SPI	Meter	Sub-Meter	Centi-Meter	Standard	Professional
TAU1103	S	•	◦	◦	◦		•	•	•	•		•	•		•		•		

◦ Alternative support. Customize to support one of three systems (BDS, Galileo, GLONASS).

GENERAL SPECIFICATIONS

GNSS Engine

Cynosure II GNSS Engine
72 GNSS tracking channels
5Hz maximum update rate

GNSS Reception

GPS/QZSS: L1C/A

* BDS: B1I

* Galileo: E1

* GLONASS: L1OF

* Customizable to support one of three systems (BDS, Galileo, GLONASS).

Position Accuracy

GNSS 2.5m CEP

Sensitivity

Cold Start -148dBm

Hot Start -158dBm

Reacquisition -159dBm

Tracking -162dBm

Velocity & Time Accuracy

GNSS 0.1m/s CEP

1PPS 25ns

Interfaces

UART 1

I2C 1

Antenna

Active antenna

Passive antenna

Time to First Fix(TTFF)

Hot start 1s

Cold start 28s

Operation Limit

Velocity 515 m/s

Altitude 18,000 m

Operating Condition

Main voltage 3.0 ~ 3.6V

Digital I/O voltage 3.0 ~ 3.6V

Backup voltage 1.6 ~ 3.6V

Safety Supervision

Antenna short circuit protection and open circuit detection

Power Consumption

Operating 35mA@3.3V

Standby 14uA

ENVIRONMENT DATA

Operation temperature -40°C ~ +85°C

Storage temperature -40°C ~ +85°C

Certification RoHS & REACH

PACKAGE

Packaging 18 PIN LCC

Dimensions 10.1*9.7*2.5mm

