

12.5mm

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

GNSS Positioning Module

- 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





Product Selector:



• 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: B11
- *Galileo: E1
- *GLONASS: L1OF

* Customize 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

0.1m/s CEP

25ns

1

1

1s 28s

Velocity & Time Accuracy

GNSS	
1PPS	

Interfaces

UART 12C

Antenna

Active antenna Passive antenna

Time to First Fix(TTFF)

Hot start	
Cold start	

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 Standby

35mA@3.3V 14uA

ENVIRONMENT DATA

Operation temperature	-40°C ~ +85°C
Storage temperature	-40°C ~ +85°C
Certification	RoHS & REACH

PACKAGE

Packaging	1
Dimensions	ĺ

18 PIN LCC 10.1*9.7*2.5mm



Website: www.allvstar.com Email: info.gnss@allystar.com

Headquarters: 5F, Building No. 4, Winlead Intelligent Park, No.3, FaDa road(middle),

Bantian Subdistrict, LongGang District, Shenzhen City, Guangdong Province, China. Calgary office: Unit 288, 3553 31 Street NW Calgary, Alberta, Canada T2L 2K7

This document contains proprietary technical information which is the property of ALLYSTAR Technology, copying of this document and giving it to others and using or communication of the contents thereof, are forbidden without express authority. Offenders are liable to the payment of damages. ALLYSTAR Technology reserves the right to make changes in its products, specifications and other information at any time without notice. For more documents, please visit www.allystar.com.