



Standard

PRODUCT DESCRIPTION

TAU1103 is a cost-effective GNSS positioning module which is based on HD8020 series GNSS chip. It supports GPS/QZSS, Galileo, and GLONASS. 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

APPLICATIONS







Asset Tracking



Fleet Management



Thox

Product Selector:



^{• =}Supported upon request with special firmware

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GENERAL SPECIFICATIONS

GNSS Engine

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

GNSS Reception

GPS/QZSS: L1C/A Galileo: E1 GLONASS: L1OF SBAS: L1

Position Accuracy

GNSS	2.5 m CEP
Sensitivity	
Cold Start	-148 dBm
Hot Start	-158 dBm
Reacquisition	-159 dBm
Tracking	-162 dBm

Velocity & Time Accuracy

GNSS 1PPS	0.1 m/s CEP 25 ns
Interfaces	
UART	1
1 ² C*	1

^{*} Supported upon request with special firmware

Antenna

Active antenna Passive antenna

Time to First Fix (TTFF)

Hot start	1 s
Cold start	28 s

Operation Limit

Velocity	515 m/s
Altitude	18,000 m

Operating Condition

Main voltage	3.0 - 3.6 V
Digital I/O voltage	3.0 - 3.6 V
Backup voltage	1.6 - 3.6 V

Safety Supervision

Antenna short circuit protection and open circuit detection

Power Consumption

Operating (GNSS)	33 mA @ 3.3 V
Standby	14 uA

ENVIRONMENT DATA

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

PACKAGE

Package	18 PIN LCC
Dimensions	10.1*9.7*2.5 mm

