



Standard

PRODUCT DESCRIPTION

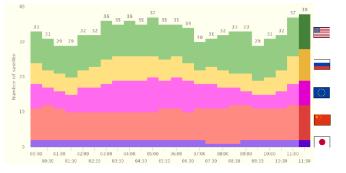
TAU1105 is a GNSS positioning module, which is based on the state of art CYNOSURE III architecture. It supports GPS, BeiDou, GLONASS, Galileo, and QZSS .

TAU1105 integrates efficient power management architecture, while providing high sensitivity and low power GNSS solutions which make it suitable for automotive navigation, fleet management, navigation applications on consumer electronics.



HIGHLIGHTS

- Concurrent reception of 5 systems (GPS+QZS+BDS+GAL+GLO) to maximize satellites visibility in L1 band
- Provides greater accuracy with more available measurements
- High sensitivity design and low power management
- Smart Jammer detection and suppression
- Highly integrated module with costeffective antenna (L1 only) design



APPLICATIONS



Automotive Navigation

Asset Tracking



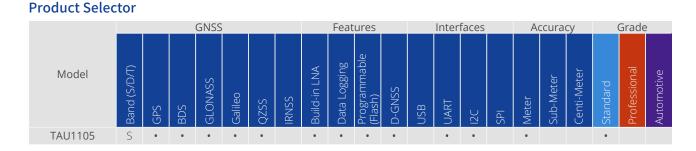
Fleet Management



Bike Sharing



Battery Sharing





GENERAL SPECIFICATIONS

GNSS Engine

Cynosure III GNSS Engine 40 GNSS tracking channels 10Hz maximum update rate

GNSS Reception

GPS/QZSS: L1C/A, L1C^[1] BDS: B1I, B1C^[1] GLONASS: L1OF Galileo: E1 *(1) Supported by specific firmware upgrade

Position Accuracy

GNSS

2.5m	(+ P)
2.0111	

1s

28s

0.1m/s CEP

20ns

1 1

Time to First Fix(TTFF)

Hot start Cold start

Sensitivity

Cold Start	-148dBm
Hot Start	-155dBm
Reacquisition	-158dBm
Tracking	-162dBm

Velocity & Time Accuracy

GNSS 1PPS

Interfaces

UART		
12C		

Antenna

Active antenna Passive antenna

Safety Supervision

Antenna short circuit protection and open circuit detection

Operation Limit

Velocity	515 m/s
Altitude	18,000 m

Operating Condition

Main voltage	1.8 ~ 3.6V
Digital I/O voltage	1.8 ~ 3.6V
Backup voltage	1.8 ~ 3.6V

Power Consumption

Operation	GPS+QZSS	25mA@3.3V
Operating	GNSS	35mA@3.3V
Standby	12uA	

ENVIRONMENT DATA

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

PACKAGE

Package	18 PIN LCC
Dimensions	10.1*9.7*2.5mm



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