

# ST100

## GNSS TIMING RECEIVER

Precise Timing, Orderly Life



### NANOSECOND-LEVEL TIMING

Capable of tracking multi-constellation including GPS, GLONASS, BeiDou and Galileo, ST100 can provide PPS (Pulse Per Second) with an accuracy of 15ns. Adopted with optimized anti-interference algorithm, ST100 shows stable and reliable timing performance even in some environments with limited signal or interference.

### EASY TO USE

Taking advantage of small size, light weight, low power consumption, short first positioning and reacquisition time, ST100 can effectively meet the needs of users. The IP66 proof level of ST100 is also suitable for harsh environments. Supporting NMEA-0183 and TSIP standard protocols, ST100 can be easily integrated into various solutions.

### WIDE APPLICATIONS

In most industries, precise timing largely improves the operational efficiency and saves resources by realizing the synchronization of large networks or systems, such as telecommunications, electric power grid, meteorology, factory automation and other fields. ST100 can provide users with higher efficiency and productivity in wide applications.

## GENERAL

GNSS	GPS, GLONASS, BeiDou, Galileo
Acquisition Time	- Cold starts: < 40s - Warm starts: < 30s - Hot starts: < 20s - Reacquisition: < 2s
Sensitivity	Tracking and Nav: -161 dBm Re-acquisition: -161 dBm Acquisition: -147 dBm Cold starts: -148 dBm
PPS Accuracy	15 ns (1 sigma)
AGPS	Support AGPS function, ephemeris input via serial port

## COMMUNICATION

Baud Rate	4800 ~ 115200 bps
Protocols	NMEA0183, TSIP
Interface	12-pin connector, RS422

## PHYSICAL

Size	Φ100mm × 47mm
Weight	< 0.2 kg

## ELECTRICAL

Supply Voltage	4.5V ~ 40V DC
Power Consumption	≤1.2 W

## ENVIRONMENTAL

Operating Temperature	-40 °C ~ +70 °C
Storage Temperature	-40 °C ~ +85 °C
Operating Humidity	5% ~ 95%, condensation conditions exist
Storage Humidity	5% ~ 100%, condensation conditions exist
Atmospheric Pressure	70 ~ 106 Kpa
Waterproof & Dustproof	IP66

All specifications are subject to change without notice.

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