

# TSync01

## High-precision time synchronization



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### Classic Application:

- Multiple controllers and sensors operate in sync
- Substations and monitoring nodes maintain consistent time
- Instruments record data simultaneously
- Transactions and logs have accurate timestamps

### Feature Overview

TSync01 is a high-precision time synchronization device designed for systems that require higher timing accuracy. By integrating advanced GPS satellite receiver technology, it ensures consistent, reliable time synchronization across the entire system.

Users can configure both relative and absolute synchronization modes. Serving as a time server, the device supports up to six slave devices on the synchronization network and offers a simple, portable, and easy-to-use solution.

### Characteristics

- $\mu$ s (microsecond)-level time synchronization to meet the needs of various time-sensitive applications
- Support for multiple GPS satellite systems. TSync 01 is compatible with BeiDou, GPS, GLONASS, and other global satellite systems, ensuring optimal time signal reception in diverse environments
- Flexible synchronization modes. Users can configure the device for either relative or absolute time synchronization based on actual requirements

**Relative Time Synchronization:** Adjusts the slave device time dynamically by analyzing pulse signals, ensuring relative synchronization among multiple slave devices. (Suitable for scenarios where absolute time is not required, but synchronized timing among devices is essential.)

**Absolute Time Synchronization:** Obtains standard UTC time from GPS satellite signals and adjusts the slave device time accordingly, achieving absolute synchronization across multiple devices. (Ideal for applications with high time precision requirements and a need for absolute time accuracy.)

\*Absolute time synchronization mode requires an external antenna to receive GPS signals. Please ensure a stable antenna connection and an unobstructed environment to guarantee GPS accuracy.

## Specification

Channel	6
Interface	LEMO aviation connector
Time Synchronization Accuracy	1 $\mu$ s, level time synchronization
Power Supply	Phoenix terminal power supply or power adapter (9 ~ 32 V)
Power Consumption	3 W
Case Material	Metal
Dimension	Approx. 113 x 98 x 38 mm
Weight	Approx. 281 g (without packaging)/Approx. 1375.7 g (with packaging)
Operating Temperature	-40°C ~ 80°C
Operating Humidity	10% ~ 90% (non-condensing)
Operating Environment	Keep away from corrosive gases

## Ordering information

Product Name	Model Number	Function Description
Network Device	TSync01	High-precision time synchronization device

## Shipping list

- TSync01 device
- 12 v 2 A power supply
- GPS Antenna
- LEMO aviation connector cable x 6



12 V 2 A power adapter



GPS Antenna



LEMO aviation connector