



The CT-GPS 2003S NTP Time Server is designed with one Ethernet port to serve the computer networks or automation system through NTP or UDP protocol. With such cost effective solutions for network time, the cost of the time synchronization system in a power plant or some other organizations can be reduced to a large extent. The internal time base unit OCXO ensures the continuous precise time signal in case the external GPS source is interrupted for any reason.

## KEY FEATURES

- NTP/ UDP protocol outputs over dual Ethernet ports
- GPS input source
- OCXO time base unit
- High timing accuracy, microseconds pulse outputs
- Multiple serial output and interactive mode
- Compact 19 " / 1U rack mount
- GPS Antenna included

## Specifications

### ⇒ Environmental Conditions

- Operating Temperature: -10 ~ +55 °C
- Storage Cond.: -20 to +55°C
- Humidity: to 95% non-condensing

### ⇒ Power Supply

- Voltage: 220V±20% DC  
or 220V±15% AC
- Frequency: 47 to 60 Hz
- Power consumption: ≤15 Watts

### ⇒ Output signals

- NTP profile (2x RJ-45 Ethernet port)
- 2x 1PPS
- 1x RS232, Baud rate at 9600 bps

### ⇒ Performances

- Timing Accuracy: ±1 µs to UTC
- Location Accuracy: 0.1'
- Acquisition:
  - Cold start < 15mins
  - Restart from outage < 20s
  - Restart at the same location < 2mins
  - Restart in a new place < 7mins

### ⇒ Mechanical

- Size (W×H×D): 19'×1U×320 mm
- Packing Weight: 7KG

---

## ⇒ Front Panel

- Display: Red sharp display of local time received from GPS
- No keypad
- LEDs:
  - POWER: Power supply status
  - 1PPS: Twinkle once per **second** in normal working status
  - SYNC: Synchronization status

## ⇒ Rear Panel



## ⇒ Scope of supply



- 1xCT-GPS 2003S NTP Time Server
- 1xGPS antenna in waterproof housing with 30m low loss coax cable
- 1xPower Cable
- 2xOperating instruction handbook

---

## Chengdu COVE Technology Co., Ltd

6-419 in Hi-tech Incubation Park, 1480 Tianfu Ave., Chengdu, P. R. China

Tel: +86 (28) 85335053 Fax: +86(28) 85335826

[www.cove.cn](http://www.cove.cn)

copyright © 2016 Chengdu Cove Technology Co., Ltd

All contents are subjected to change without prior notice.