GPS NTP/SNTP Time Server

SYN-MN100T

Technical Description：

The SYN-MN100T Mini GPS NTP Time Server that we manufactured are specifically for electric power system, automation system, telecom system, CCTV and traffic system that need high-precise time requirer．Our system is based on GPS, and the precision of NTP time output is 100ns and receive accuracy can be 1ms. It can track 12 GPS satellites at the same time, and selects the best satellite automatically for locating and timing． It outputs UTC time and the synchronous precision is 1ms.The SYN-MN100T is quite cost effective and high quality, its highest record of MTBF is 8 years.

AC/DC Power Input

Rated Voltage	12V DC
Power Consumption	< 10W

Mechnical Specifications

Physical Size	130x120x31mm
Weight	250g
Enclosure Material	Aluminum alloy
Enclosure Color	Black
NTP/SNTP Version	NTPv2、NTPv3、NTPv4、SNTP

Working Conditions

Work Temperature	-40°C ～ +75°C
Storage Temperature	-40°C ～ +85°C
Humidity	5% ～ 95%（Non-condensing）
Air Pressure	70kPa ～ 106kPa
Altitude	< 3000m

GPS Receiver

Receiver Frequency		1575.42MHz
Receiver Sensitivity		<-130dbm
Satellite Number		≤12
Capture Time	Hot Start	<25s
	Warm Start	<50s
	Cold Start	<200s
	Recapture	<1.0s
Timing Accuracy		≤30ns

Beidou Receiver

| Receiver Frequency	1559.052MHz－1591.788MHz
Receiver Sensitivity	－162dBmW
Timing Accuracy	≤100ns

Product Benefits and Features：

1. Supports GPS, Beidou, or GPS+Beidou.

2. Supports broadcasting and server modes.

3. Website configuration: The parameters can be configured on webpage and the IP, working status, satellites number, time source, system time, sync record can all be read on it.

4. NTP network is provided through 100M Ethernet, which can be used as network time server.

5. It has the ability of keeping time with high precision for a long time, and the time keeping error can be selected in different grades.

6. Supports Microsoft® Windows®、Linux®、IBM AIX® and so on.

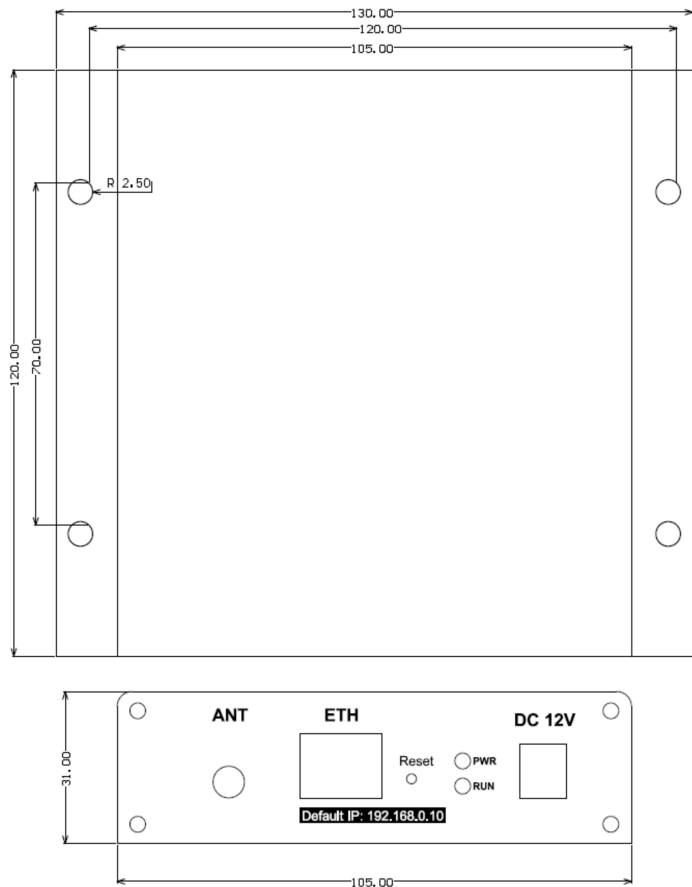7. Login password and hardware protection.

8. IRIG-B output(For option)

Front Panel:

ANT   ETH   DC 12V

Reset   PWR

RUN

Default IP: 192.168.0.10

Back Panel:

OUT

+	-	+	-
OUT1		OUT2	
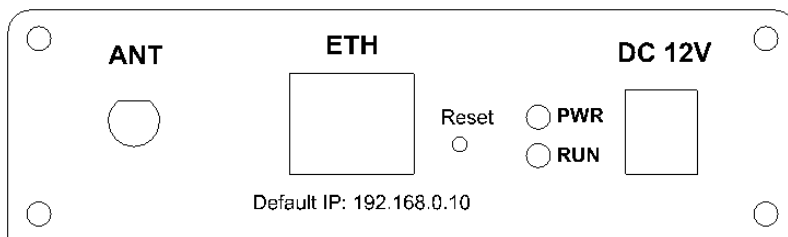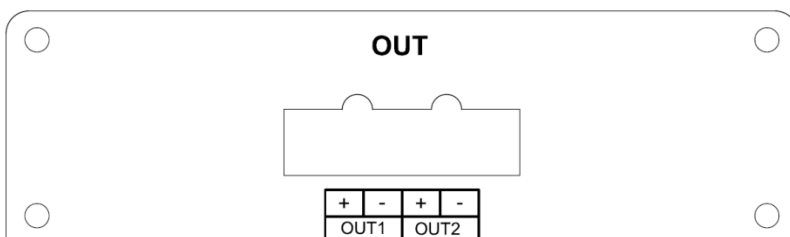
Enclosure Physical Dimension:

Warranty: 1 Year.

Application Fields:

- Substation Automation(SCADA/EMS)
- Video Surveillance(CCTV system)
- Intelligent Traffic System
- Telecommunication
- Bank Time Systems
- Schools & Hospitals
- Driverless System
- Other fields that require high time accuracy