



**SYNCH. BUENO**  
KEEP UP WITH THE TIME SERVER

# GPS NTP/SNTP Time Server

*SY-M-1-NTP*



## Introduction

The SY-M-1-NTP Network Time server provides a high precision time directly to TCP/IP networks using NTP(Network Time Protocol). It synchronizes time of any NTP clients running on remote PC' s. It supports both NTP and SNTP clients for more of current popular operating systems including: Microsoft Windows 95/98/Me/NT/2K/XP, Linux, Free BSD, IBM AIX and other UNIX family systems. It can synchronize simultaneously thousands of servers, workstations and routers.

## Features

The SY-M-1-NTP is high quality professional time server for computing, telecom, military, power grid, traffic systems and other science purposes. It has been manufactured with no mechanical parts as coolers or hard disk. All cooling system has been resolved on natural air circulation outgoing via metal case of unit.

## Technology

NTP : supports all versions of NTP, SNTP including latest release 4.1.1 supporting modes: CLIENT,SERVER, BROADCAST, MULTICAST. Authentication: MD5 with manual/automatic key generation.

SNTP : supports all versions of Simple Network Time Protocol  
OS Supports :Windows 95/98/Me/2K/XP/WIN7/CE, OS/2, VAX-11/785 v4.3, HPUX, SunOS, Solaris, MIPS Ultrix, ALPHA OSF/1, SGI IRIX, A/UX, AIX, Sinix, BSD, Linux, Dell SVR4, SCO Unixware, CISCO products.

[www.synchbueno.com](http://www.synchbueno.com)

LAN : 10/100 Based T: RJ-45 connector IEEE 802.3 - shielded data line

RS-232: 1 channels(serial code)

PPS: 1 channel 1 PPS,(TTL/ active optical isolation and passive)

Chipset : Motorola receiver (8) channel with RAIM

Antenna: BNC1.5GHz / 8m + active converter (IP65 to UTP Cat5. cable 200m. (max.500m),

Receiver : input frequency 1575.42MHz (L1).

INPUT : 110-240V AC/DC, DC48V,DC24V,DC12V FUSE : 1 electronic

OUTPUTS : +5V / 5A, +12V / 0.6A, -12V / 0.5A.    TOTAL LOAD : Less than 10 Watt

GPS Accuracy: Better than  $\pm 100$  nsec after synchronization of first 1 hour better than  $\pm 1$   $\mu$ sec during the first hour of operation

NTP Accuracy : 1 msec (with nanosecond kernel)

HOUSING : MINI Metal desktop case, 15.8x14.6x6.0CM

Protection : rating IP20

Temperature: -20~75°C

Storage: -40~ 125°C

Humidity: 85% max

Housing Color: Silver White

GPS Antenna Cable: 30 meters wire with GPS antenna

Warranty Time: 5 Years