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GPS NTP Time Server

SY-2A-NTP



Product Description

The SY-2A-NTP GPS source NTP/SNTP time server(clock) provides a high precision NTP/SNTP time code as well as 1 PPS/1PPM/1PPH pulse,RS-232,RS-485 directly to time receive devices. The unit automatically acquires all in-view satellites upon power up and locks an internal NTP/SNTP time code generator to the GPS time reference. If the GPS lock is lost the SY-2A-NTP will automatically switch to an internal clock and continue generating the output time signal. No discernible change in the time output will occur due to this transition.

Product Features

The SY-2A-NTP is high quality professional time server for Power system(SCADA/EMS),computing, telecom, military, 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 or TCP/IP : supports all versions of Simple Network Time Protocol



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OS Supports: Windows 95/98/Me/2K/XP/WIN7/CE, OS/2, VAX-11/785 v4.3, HP/UX, SunOS, Solaris, MIPS Ultrix, ALPHA OSF/1, SGI IRIX, A/UX, AIX, Sinix, BSD, Linux, Dell SVR4, SCO Unixware, CISCO products.

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

Optional Time Codes Output:

IRIG-B DC: 1 port of BNC, 1 port of RS485 terminal block.

RS-485: 2 channels(serial code)

RS-232: 4 channels(serial code)

Alarm dry contact output: 1 or 2 channels

PPS: 2 channel 1 PPS, 2 port 1 PPM , 1 channel 1 PPH ((TTL/ active optical isolation and passive)

Fiber Optic: ST/SC/FC, Single mode(up to 20km), Multi mode(up to 2km)(Optional)

Other Specs:

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 Power: 110-240V AC/DC, DC48V, DC24V, DC12V **Dual Redundant Power Supply(Optional)**

Fuse : 1 electronic

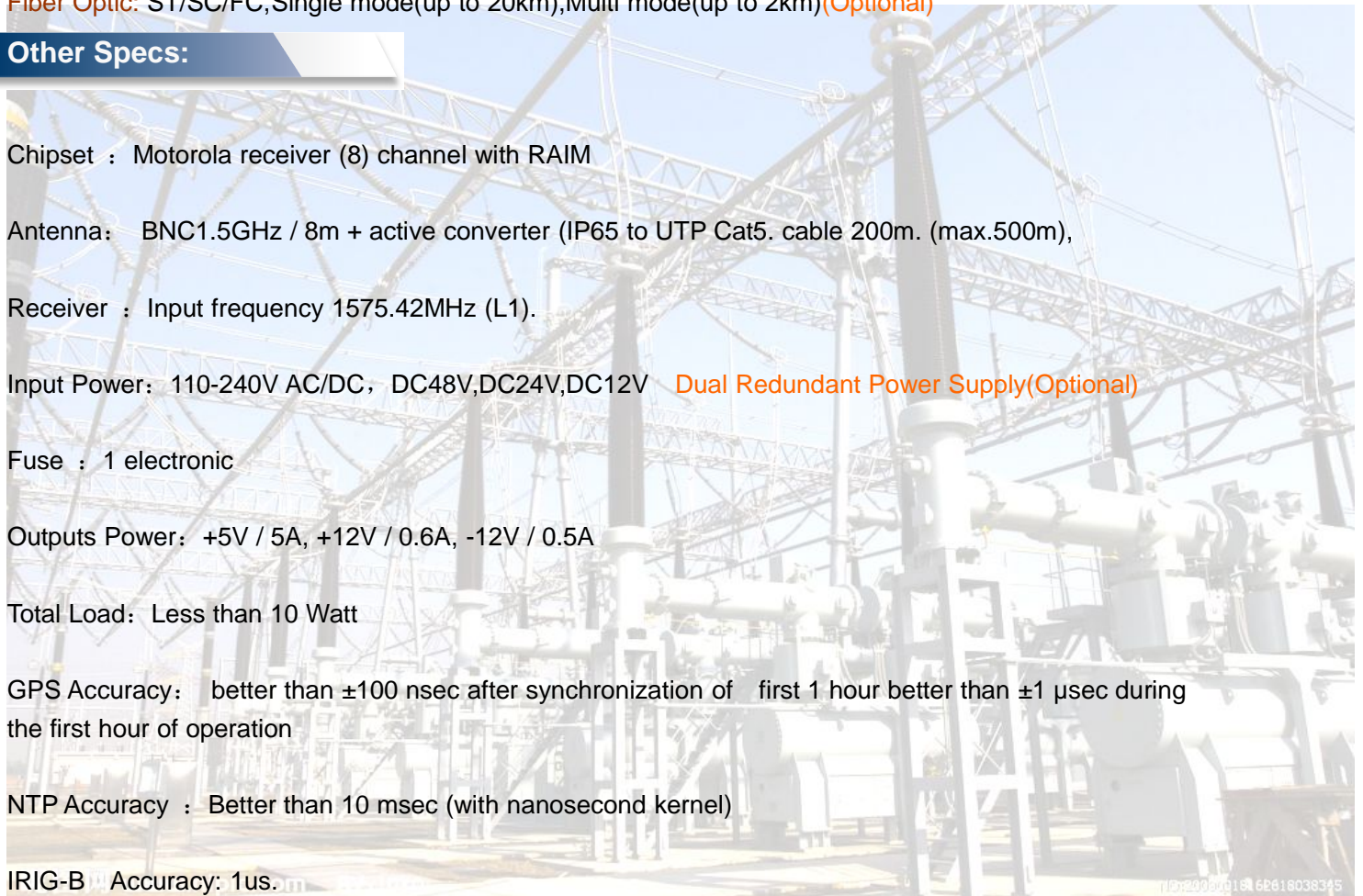
Outputs Power: +5V / 5A, +12V / 0.6A, -12V / 0.5A

Total Load: Less than 10 Watt

GPS Accuracy: better than ± 100 nsec after synchronization of first 1 hour better than ± 1 μ sec during the first hour of operation

NTP Accuracy : Better than 10 msec (with nanosecond kernel)

IRIG-B Accuracy: 1us.





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Housing : Metal desktop case,1U/2U/3U/4U

Front Panel: 86mm high / 483mm wide

Protection : rating IP20

Indication LED: Blinks when GPS signal off or error in master clock(Optional).

LCD Display : 6 character+8 character .Can display local & UTC time ,longitude, latitude & altitude(Optional),Error warning.

Temperature : -20~ 75°C

Storage: -40~ 125°C

Humidity: 85% max

Housing Color:Silver White,1U,2U, 3U or 4U Chassis.

GPS Antenna Cable: 30 meters wire with GPS antenna. The wire can be prolonged.

