SYNCH . BUENO
KEEP UP WITH THE TIME SERVER

GPS IRIG-B Time Server

SY-2A-RIG

Product Description

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

Product Features

The SY-2A-RIG 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

IRIG B (BNC or RS485 Terminal) Output: TTL levels. *12 to 36 IRIG B outputs.* Standard IRIG B002 serial demodulated time code IAW IRIG Standard 200-98.Each outputs is capable of driving a 50 ohm load and each output can drive up to five devices each. All outputs are short circuit protected. The SY-2A-RIG is compatible with the SY IRIG Distribution Amplifier.The SY-2A-RIG is in compliance with IEEE1344-1995.

The following are only for options,NOT standard fit:

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

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.

DCF77: BCD code output, European standard.

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

RS-485: 2 channels(serial code) or more

RS-232: 4 channels(serial code) or more

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)

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

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 μsec during the first hour of operation

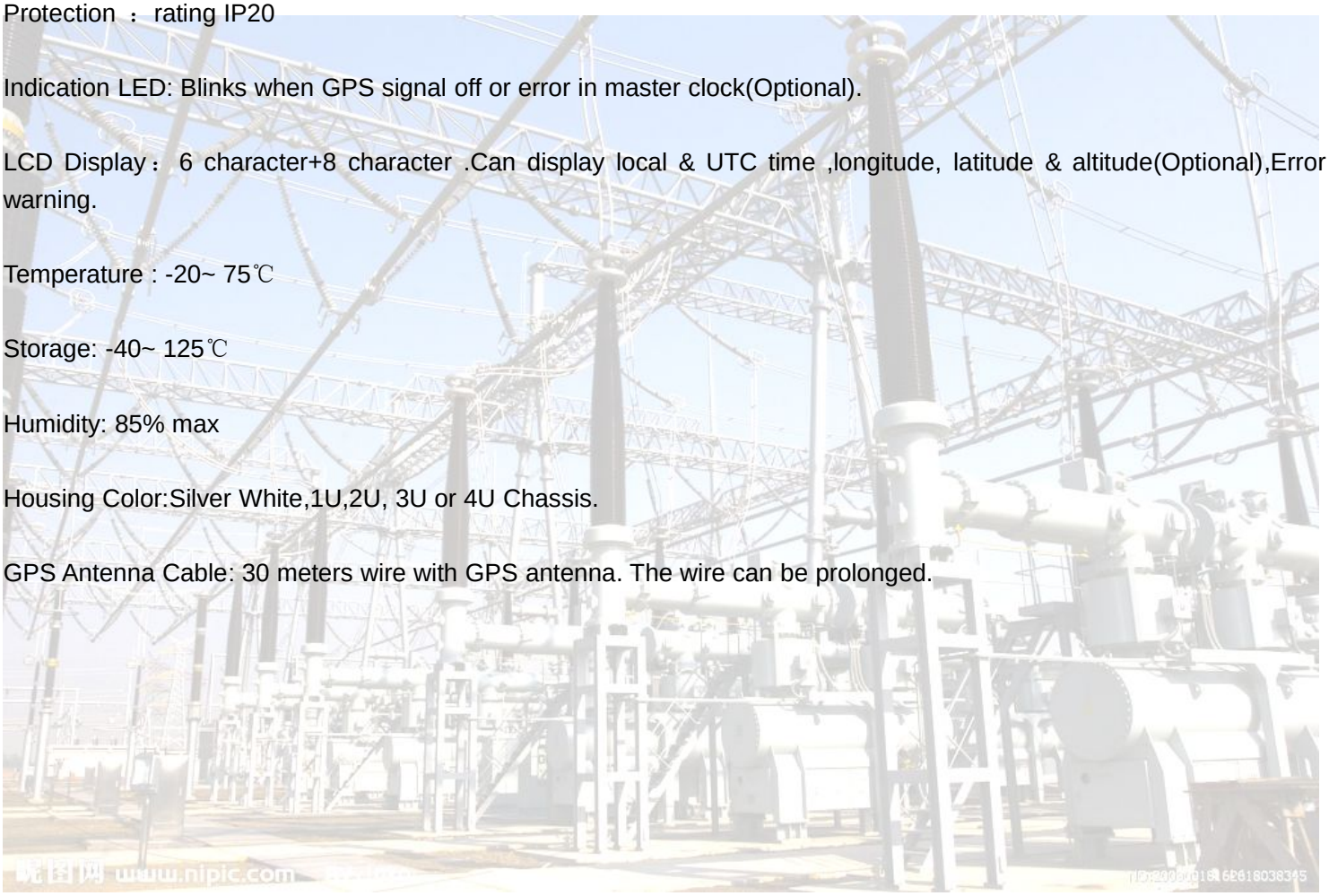
NTP Accuracy ：Better than 10 msec (with nanosecond kernel)

IRIG-B Accuracy: 1us.

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℃

Storage: -40~ 125℃

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.