CDMA Time Generator & Time Server : PTG-S1001CN   PROTEK®

It is vital to deliver accurate time information to all systems. NTP is an abbreviation of Network Time Protocol. It is a protocol for synchronizing the time information of the device / device with the correct time through the Internet. With the NTP function of the DVR / NVR, you can keep the time of all DVR / NVR accurately. Generally, it accesses the Internet and obtains time information from a public NTP server. However, a separate solution is required to avoid the possibility of Internet latency or the possibility of hacker threat exposure during system time synchronization via the Internet, or the possibility of time delay during time synchronization via the Internet. PTG-S1001CN receives UTC standard world time information acquired from CDMA network and synchronizes clock time of network connected computer, NVR, DVR. By using the PTG-S1001CN, you can configure a separate local network and synchronize the time to multiple devices.
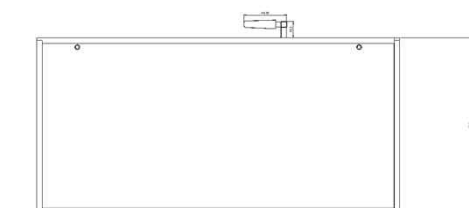
PTG-S1001CN

Features

• CDMA cellular timing and frequency control

• Millisecond time accuracy (Under 10ms)

• GSM/CDMA2000/WCDMA (Option)

• No subscribe telephone fee

• RS-485 (ASC II Time Output)

• SNTP Protocol(NTP V4.2) Support

• Linux OS time server

• LED Time Display

• Easy to install and maintain

• No costly antenna installation fee

• No risk of lightning strike damage

• Manual adjustment for time and date

• Using Mobile network

• Free from raining

• Any where a cell phone signal is available

• Built in Lithium battery

Specifications

Model No	PTG-S1001CN
Time Source	CDMA, 800MHz
Time Accuracy	Less than 10ms based on UTC
MTBF	More than 70,000Hr
Network I/F	RJ45, 10/100M
LED Indicator	Date, Time, CDMA Status, Power
Manual Time Adjustment	Yes, Menu key in front
Time Zone Setting	Menu Key in front
NTP Protocol	NTP, SNTP
Network Setting	WEB(HTTP)
Serial Comm. I/F	RS-485
Baud Rate	1200,2400,4800,9600bps
RS-485 Port	2
Power Input	DC12V
Power Consumption	Max. 20W
Dimensions	430(W)x200(D)x44(H)
Mount	19Inch Rack Mount

Dimensions

RJ-45 Network / USB / RS-485 / CDMA Antenna / DC12V Power

GPS Time Generator & Time Server : PTG-S1001GN

PROTEK®

It is vital to deliver accurate time information to all systems. NTP is an abbreviation of Network Time Protocol. It is a protocol for synchronizing the time information of the device / device with the correct time through the Internet. With the NTP function of the DVR / NVR, you can keep the time of all DVR / NVR accurately. Generally, it accesses the Internet and obtains time information from a public NTP server. However, a separate solution is required to avoid the possibility of Internet latency or the possibility of hacker threat exposure during system time synchronization via the Internet, or the possibility of time delay during time synchronization via the Internet. PTG-S1001GN receives UTC standard world time information acquired from GPS and synchronizes clock time of network connected computer, NVR, DVR. By using the PTG-S1001GN, you can configure a separate local network and synchronize the time to multiple devices.
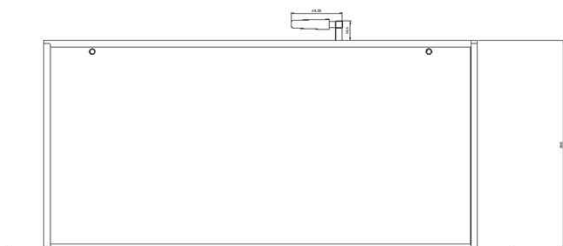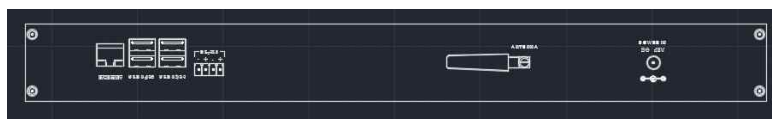
PTG-S1001GN

Features

- GPS Time Generator (Option: GPS/GSM/CDMA2000/WCDMA)
- 50Channels GPS Signal receiver
- LED indicator for receiving GPS signal and current time
- Easy installation
- Linux OS Time server
- NTP(SNTP) protocol
- RS-485 serial interface (Max. 256)
- Manual time & Date adjustment
- 19" Rack Mount type

Dimensions

Specifications

Model	PTG-S1001GN
Time Source	50 Channels GPS L1 frequency, C/A Code GALILEO Open Service capable1 GLONASS FDMA1 SBAS: WAAS, EGNOS, MSAS
Configurable Timepulse frequency range	15 ns (Compensated)
MTBF	More than 100,000Hr
Network I/F	RJ45, 10/100M
LED Indicator	Date, Time, GPS, Power
Manual Time Adjustment	Front Key
Time Zone	Menu Key
NTP protocol	NTP, SNTP
Network Setup	WEB(HTTP)
Comm. I/F	RS-485
Baud Rate	1200,2400,4800,9600bps
RS-485 Port	2
GPS Antenna	1572.42MHz External (SMA Type)
Power Input	DC12V
Power Consumption	Max. 20W
Dimensions	430(W)x200(D)x44(H)
Mounting	19 inch rack mount

RJ-45 Network / USB / RS-485 /GPS Antenna(External) / DC12V Power

CDMA Auto Time Generator : PTG-S1001C

PROTEK®

Accurate time is essential to determining the order in which events occur and is a fundamental aspect of transaction integrity, logging/auditing, troubleshooting and forensics. Accuracy, reliable time is necessary for many applications involving widely distributed resources. PTG-S1001C includes a proprietary CDMA receiver for synchronization the universal Coordinate Time(UTC). It receives its timing information from GPS via the CDMA mobile telecommunications network used by cellular telephones. This means the antenna can be conveniently located inside buildings, anywhere a cell phone signal is available. The PTG-S1001C serve accurate time to any system with accuracy of < 10microseconds through RS-485 time protocol. PTG-S1001C supplies time to the computer via a serial/USB interface and Sync Software. The PTG-S1001C will synchronise the time on Windows Server 2003, 2008, 2008 R2 and 2012 or on Windows XP, Vista, 7, 8 and 10 desktop computers
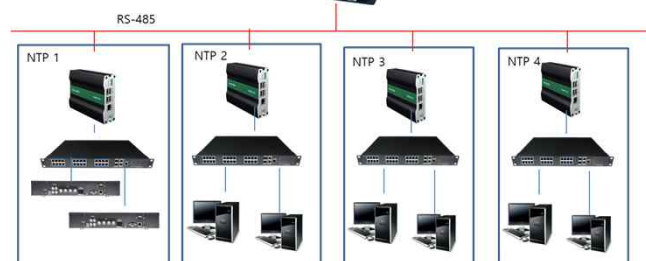
PTG-S1001C

Features

- CDMA cellular timing and frequency control

- Millisecond time accuracy (Under 10ms)

- GSM/CDMA2000/WCDMA (Option)

- No subscribe telephone fee

- RS-485 (ASC II Time Output)

- LED Time Display

- Easy to install and maintain

- No costly antenna installation fee

- No risk of lightning strike damage

- Manual adjustment for time and date

- Using Mobile network

- Free from raining

- Any where a cell phone signal is available

- Program S/W for Windows OS time adjusting

- Can converts existing Windows Server to a NTP

Time Server

- Built in Lithium battery

Specifications

Model	PTG-S1001CN
Time Source	CDMA, 800MHz
Time Accuracy	Under 10ms based on UTC
MTBF	More than 70,000Hr
LED Indicator	Date, Time, CDMA Receiving, Power
Manual Time Adjustment	Menn Key in Front
Time Zone	Menu Key
Serial Comm. I/F	RS-485(Time)
Baud Rate	1200,2400,4800,9600bps
RS-485 Port	2
Network Interface	Via Windows server or workstation or PMS-S1001C
Interface to Windows PC server or Desktop	RS-232/USB & Sync Program
Power Input	DC12V
Power Consumption	Max. 3W
Dimensions	112x38x143mm(W x H x D)
Mounting	Standalone

Basic System Configuration

Window PC/ Server Time Sync.

GPS Auto Time Generator : PTG-S1001G

PROTEK®

Accurate time is essential to determining the order in which events occur and is a fundamental aspect of transaction integrity, logging/auditing, troubleshooting and forensics. Accuracy, reliable time is necessary for many applications involving widely distributed resources. PTG-S1001G includes a proprietary GPS receiver for synchronization the universal Coordinate Time(UTC). It receives its timing information from GPS with accuracy of < 15ns. PTG-S1001G supplies time to the computer via a serial/USB interface and Sync Software. The PTG-S1001G will synchronise the time on Windows Server 2003, 2008, 2008 R2 and 2012 or on Windows XP, Vista, 7, 8 and 10 desktop computers

PTG-S1001G

Features

• Built-in GPS receiver

• Receive 50Channels GPS signal

• RS-485 (ASC II Time Output)

• Baud rate adjustment

• Time Zone Adjustment

• LED Time Display

  (6 digit LED Display , YY/MM/DD & H/M/S)

• Easy to install and maintain

• Manual adjustment for time and date

• Antenna option

• Program S/W for Windows OS time adjusting

• Can converts existing Windows Server to a

NTP Time Server

• Built in Lithium battery

Specifications

Model	PTG-S1001G
Time Source	50 Channels GPS L1 frequency, C/A Code GALILEO Open Service capable1 GLONASS FDMA1 SBAS: WAAS, EGNOS, MSAS
Configurable Timepulse frequency range	15 ns (Compensated)
MTBF	More than 100,000Hr
LED Indicator	Date, Time, GPS, Power
Manual Time Adjustment	Menn Key in Front
Time Zone	Menu Key
Comm. I/F	RS-485(Time & Location)
Baud Rate	1200,2400,4800,9600bps
RS-485 Port	2
GPS Antenna	1572.42MHz External (SMA Type)
Network Interface	Via Windows server or workstation or PMS-S1001C
Interface to Windows PC server or Desktop	RS-232/USB & Sync Program
Power Input	DC12V
Power Consumption	Max. 3W
Dimensions	112x38x143mm(W x H x D)
Mounting	Standalone

Basic System Configuration

Window PC/ Server Time Sync.

CDMA / GPS Signal

RS-485

Time Sync Program

RS-232/USB Converter

Mini NTP Time Server

It is vital to deliver accurate time information to all systems. NTP is an abbreviation of Network Time Protocol. It is a protocol for synchronizing the time information of the device / device with the correct time through the Internet. With the NTP function of the DVR / NVR, you can keep the time of all DVR / NVR accurately. Generally, it accesses the Internet and obtains time information from a public NTP server. However, a separate solution is required to avoid the possibility of Internet latency or the possibility of hacker threat exposure during system time synchronization via the Internet, or the possibility of time delay during time synchronization via the Internet. PMS-S1001C receives UTC standard world time information acquired from CDMA / GPS time synchronization equipment (PTG-S1001C or PTG-S1001G) as RS-485 and synchronizes clock time of network connected computer, NVR, DVR, Is a mini-time server that provides NTP services. By using the PMS-S1001C, you can configure a separate local network and synchronize the time to multiple devices.

PMS-S1001C

- NTP Time sync with CDMA/GPS time generator
- Economic time server
- SNTP Protocol
- NTP V4.2
- Easy installation and maintenance
- Linux OS
- No need internet access (No Need Public NTP)
- Build independent network configuration
- RS-485 In / Out

Specifications

Model No	PMS-S1001C
SoC	BCM2836(CPU, GPU, DSP&SDRAM)
CPU	SRM Cortex-A7 900MHz, 4 core
GPU	Broadcom Video CoreIV, OpenGL ES2.0, 1080p 30 h.264/MPEG-4 AVC HD encoder
RAM	1GB
SD Card	Micro SD, Built in
Network	1port(RJ45), 10/100M Ethernet
USB2.0	4, support USB hub expand
Serial port	2 ports, RS-484, 2.4~500kbps
Power	DC5V~12V(Max 5.0W)
Dimension	112x38x143mm(W x H x D)
OS	Debian GNU/Linux, Fedora, Arch Linux, RISC OS Windows 10 & Snappy Ubuntu Core

Basic System Configuration

NTP Port : 123 or 80

Ethernet(Intranet)

SNTP/NTP Protocol

DVR/NVR

PTG-S1001C or PTG-S1001G

PMS-S1001C