AP-GTR1000





AP-GTR1000 Embedded GPS NTP Server

AP-GTR1000 GPS based NTP Server transmits GPS time information to network based application server which requires accurate time information. Legacy GPS Time Receiver products only support RS232C Interface but AddPac AP-GTR1000 supports fast Ethernet port as well as dual RS232 interface for backward compatibility.

AP-GTR1000 GPS NTP Server is easy to manage remotely and provides excellent scalability. This device can be applied to various real-time video applications such as video surveillance, traffic management and monitoring for disaster prevention

AP-GTR1000 GPS NTP Server transmits GPS time information to network based application server which requires accurate time information via ethernet port. In local area network, this device transmits GPS based time information to application server like as CCTV VMS server by using IP based protocol.

Without GPS based time synchronization or NTP server, if time is passed after installation or in service, each application server's time clock is mismatched comparing with GPS based real-time. Especially, in case of CCTV application, time mismatching should be solved between real-time and CCTV application server's current time.

AP-GTR1000 provides easy system cabling and Installation service by using LAN interface. Also, AP-GTR1000 provides third party's example API for Window or Linux application developer. In front of AP-GTR1000, there are LCD display for GPS time information and blue LAMP for device status. Also, there are one fast Ethernet port and console port. At the rear of AP-GTR1000, there is one module slot for AP-GPSR2 module. AP-GPSR2 module provides dual DB-9 RS232 interface port and GPS antenna interface port.

AddPac network products are well recognized in terms of performance and stability in the world. With our accumulated experience in enterprise market and communication market, APGTR1000 will satisfy the needs of customer along with AddPac network CCTV solution.

Product Overview

- Embedded GPS NTP (Network Time Protocol) Server
- Module Type GPS Hardware Support for Easy Maintenance and GPS Hardware Upgrade
- Dual RS232C Port for GPS Time Information Transmission (GPS NMEA)
- Firmware Upgrade Support based on High Performance Processor
- Real-time Operating System for Time Critical GPS Application
- Dual GNSS System Receiver Simultaneous Support using Dual Frequency RF Receiver (ex : GPS (USA), GLONASS (Russia))
- Basic Configuration : GPS (SBAS and QZSS (Japan, Australia) Including) and GLONASS Simultaneous Receiver Mode
- Advanced RF Design Architecture and Anti-Jamming Technology Support
- Maximum 72 Channel Satellite Channel Support
- Optimized Performance Support for Passive & Active GPS Antenna
- Optional Long Distance GPS Antenna Support: basic 10m, option: 20m, 30m, 40m, 50m
- Advanced Security Protocol Support (SSH, TCP MD5, Enhanced Password Management)
- 1-Port 10/100Mbps Fast Ethernet Support
- 1-Port RS232C Interface Support (Command Line Interface)
- Web based Smart Manager Support
- APOS Guarantees Scalability, Reliability, Stability

AP-GTR1000 Application

- GPS Time Synchronization Service Support in Closed Network Environment
- iP based GPS Time Synchronization Service
- Embedded GPS NTP (Network Time Protocol) Server

AP-GTR1000

Embedded GPS NTP Server

Hardware Specifications

Memory

Main Chassis High Solidity Steel Chassis

High Performance RISC + DSP (Digital Signal CPU

Processor)Integrated Processor

4MB Flash Memory

32MB SDRAM Main Memory

Module Slot

GPS Module AP-GPSR2 Module Type GPS Hardware

1-Port Antenna Interface for GPS

10m Antenna (Default), 20m Antenna (Option) Two(2) RS232C Interface for GPS Data: backward

compatibility

Blue LAMP LED GPS Sync Status Display

LCD Display for Real-time GPS Time Display, etc **LCD Display Network Interface** 1-port 10/100Mbps Ethernet Interface(RJ45) Console Interface 1-port RS232C Console Interface (RJ45) for

CLI (Command Line Interface)

Power and Operation Management

Operation Environment Temperature 0°C to +50°C (32° to 122°F)

(operating), -40°C to +85°C (-40° to 185°F) (storage),

Humidity 5% ~ 95%

AC110~220VAC 50/60Hz Free Voltage, **Power Supply**

5V 5Amp. Internal SMPS Power

43mm x 223mm x 330mm (H x W x D) Demension

2 25Ka Weight

GPS NTP Service Features

GNSS (Global Navigation GPS(USA), QZSS (Japan, Australia), SBAS

Satellite System) Service GLONASS (Russia), Beidou (China)

Default GNSS GPS, GLOBASS **Dual Frequency Receiver Support Concurrently** Receiver Frequency

Channels Maximum 72 Channel **Default GNSS** GPS, GLOBASS

GPS Antenna Passive, Active GPS Antenna Support

GPS Performance Advanced RF Technology and Immune Interference

Maximum Update Rate Accuracy of Time Pulse 30ns~60ns

IP Time Sync. Protocol NTP (Network Time Protocol) Support

WAN, IP Routing and Other Features

WAN Protocol IP Routing Other Features

IPv4 Static and IEEE 802.1Q VLAN Routing DHCP Server and Relay, NAT/PAT, IEEE Standard Transparent Bridging (Spanning Tree Bridging and Concurrent Routing Bridging Protocol), NTP Cisco Style Command Line Interface (CLI), DNS Proxy,

MAC Address Filter Service DNS Proxy, VLAN, DNS Update Feature, etc.

Point-to-Point Protocol (PPPoE) for ADSL

Operation and Management Features

Network Management Standard SNMP Agent (MIB v2) Support,

Telnet, Command Line Interface via Telnet

(Public, Private IP Support),

Web Based Management (Network, H.323, SIP, etc)

Remote Firmware (APOS) Upgrade

via FTP/TFTP Support.

Operation & Management Performance Analyzing (Process, CPU, Interface),

Configuration Backup and Restore for APOS Management, Debugging and Diagnosis Features, System Booting/Rebooting through Watch-Dog, Data Logging Features, IP Traffic Statistics through

Accounting Support

Security Features IP Packet Filtering, Access List, Access Control and

Data Protections, Enable/Disable for Specific Protocols Multi-level User Account Management Auto-disconnect for Telnet/Console Sessions, PPP User Authentication Support (PAP/CHAP)

Enhanced Security Protocol

Secure Shell

HTTP Security Support HTTPS

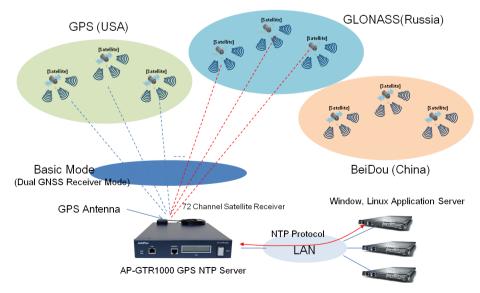
Support WebSocket Support PHP/FastCGI SSH: Secure Shell

TCP MD5 Support RFC2385 TCP MD5 Signatures **Password Security**

Password Policy Enhancement

System Lock

Network Diagram



Ordering Information

• AP-GTR1000 GPS NTP Server

• CAB-GPS10m 10m GPS Antenna Cable • CAB-GPS20m 20m GPS Antenna Cable

• CAB-LAN **Ethernet Cable**

AddPac

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