Gigabit Dual Power GPS NTP Server

AP-GTR2000GD





AP-GTR2000GD Gigabit Dual Power GPS NTP Server

AP-GTR2000GD embedded NTP server with GPS time receiver hardware receives GPS time information from GPS satellite and performs the NTP (network time protocol) server service for network based application server which requires accurate time information like as CCTV NVR server. AP-GTR2000GD embedded NTP server terminal 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-GTR2000GD embedded 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 recording serverby using NTP 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-GTR2000GD provides easy system cabling and Installation service by using gigabit LAN interface and internal GPS time receive hardware module.

In front of AP-GTR2000GD, there are LCD display for GPS time information and blue LAMP for device status. Also, there are two (2) gigabit ethernet port and console port. At the rear of AP-GTR2000GD, there is one module slot for AP-GPSR2 module. AP-GPSR2 module provides dual DB-9 RS232 interface port and GPS antenna interface port. And, AP-GTR2000GD provides the dual power supply by using SMPS power for redundancy and stability.

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, AP-GTR2000GD embedded NTP server with internal GPS time receiver hardware module will satisfy the needs of customer along with AddPac CCTV VMS 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)
- 2-Port 10/100Mbps Gigabit Ethernet Support
- 1-Port RS232C Interface Support (Command Line Interface)
- Dual SMPS Power Supply for Redundancy
- Web based Smart Manager Support

AP-GTR2000GD Application

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

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Hardware Specifications

Main Chassis High Solidity Steel Chassis CPU High Performance RISC Processor

Memory 512MB Flash Memory

128MB SDRAM Main Memory

Module Slot 1ea

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** 2-port 10/100/1000Mbps Ethernet Interface(RJ45) Console Interface 1-port RS232C Console Interface (RJ45) for

CLI (Command Line Interface)

Front LED Power LED, Run LED, LAN LED

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 8Amp. Internal Dual SMPS Power 56mm x 440mm x 370mm (H x W x D)

4.95 Kg Weight

Demension

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 Point-to-Point Protocol (PPPoE) for ADSL 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.

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, 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

HTTP Security Support HTTPS

Support WebSocket Support PHP/FastCGI

Secure Shell SSH: Secure Shell

Support RFC2385 TCP MD5 Signatures TCP MD5

Password Security Password Policy Enhancement

System Lock

Network Diagram

GLONASS(Russia) GPS (USA) 2000)) **700)))** W))) **2000)) 56** m)) **)** Basic Mode BeiDou (China) (Dual GNSS Receiver Mode Window, Linux Application Server 72 Channel Satellite Receiver **GPS Antenna** NTP Protocol LAN AP-GTR2000GD GPS NTP Server

Ordering Information

 AP-GTR2000GD **GPS NTP Server**

• CAB-GPS10m 10m GPS Antenna Cable

20m GPS Antenna Cable • CAB-GPS20m

• CAB-LAN **Ethernet Cable**

AddPac Technology Co., Ltd.

2,5F Kyung-An Bldg., 769-12, Yeoksam-Dong Kangnam-Gu, Seoul, 135-080, Korea Tel: (02)568-3848, Fax: (02)568-3847, e-mail: sales@addpac.com



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