

# Embedded GPS NTP Server Solution



***AddPac***

**AddPac Technology**

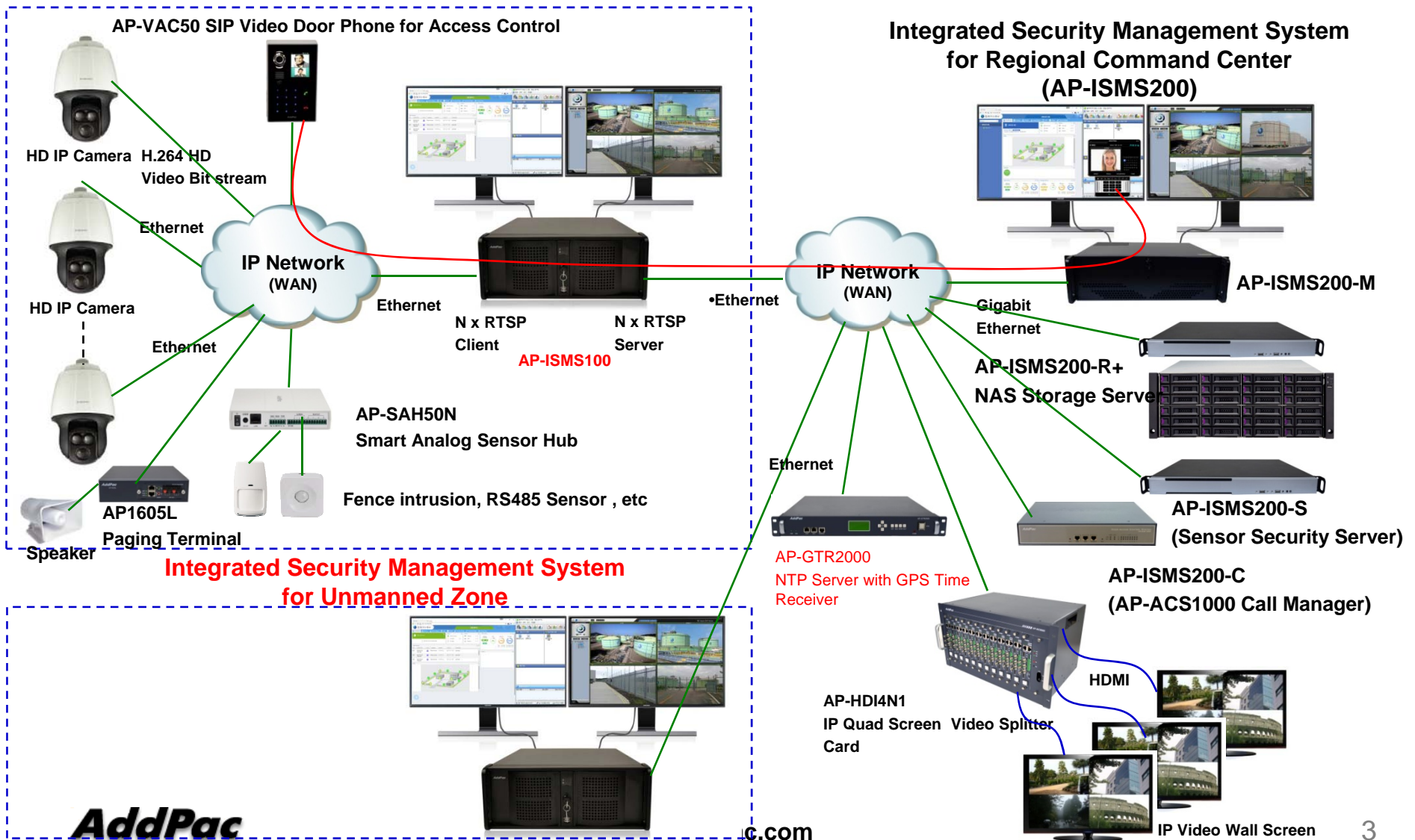
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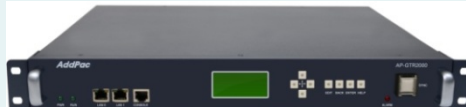

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# Embedded NTP Server Network Diagram



# Embedded NTP Server Comparison Table

Model	AP-GTR2000GD	AP-GTR2000	AP-GTR1000
Service			
Embedded GPS Time Receive Hardware (Module Type)	Support	Support	Support
Network Interface (2 Port)	10/100/1000Mbps Gigabit Ethernet	10/100Mbps Fast Ethernet	10/100Mbps Fast Ethernet
GPS Antenna Interface	External GPS Antenna Interface (Option)	External GPS Antenna Interface (Option)	External GPS Antenna Interface (Option)
NTP Protocol Support	Simple NTP Protocol	Simple NTP Protocol	Simple NTP Protocol
Operating System	Linux Operating	APOS (AddPac Real-time OS)	APOS (AddPac Real-time OS)
Dual Channel RS232 Interface (DB-9)	Support	Support	Support
Internal Power Supply	Dual Power (Free Voltage)	Single Power	Single Power
Window, Linux API for 3'rd User (Non-Admin)	Support	Support	Support

# AP-GTR2000GD

## Gigabit Ethernet Dual Power GPS NTP Server



# Product Overview

## AP-GTR2000GD Gigabit Dual Power GPS NTP Server

- Embedded NTP Server with GPS Time Receiver Module
- High Performance GPS Time Receiver Terminal Solution
- IP based GPS Time Receiver (Location Free, etc)
- Dual RS232 Port for GPS Time Information Transmission
- LCD Display for GPS Time Information
- External Antenna Interface Support
- **Dual Port Gigabit Ethernet Interface**
- High Performance Antenna Support for GPS Signal
- Blue LAMP for Device Status
- Smart Web Manager for System Configuration & Management
- Window, Linux Simple Socket API Program Support
- Firmware Upgradeable Architecture
- **Dual Power Supply for Fault Tolerant Redundancy**

# Hardware Specification

AP-GTR2000GD Gigabit Dual Power GPS NTP Server

RISC  
CPU

High-end  
GPS

- RISC Microprocessor Computing Power
- High-end GPS Module Hardware Architecture
- One(1) Module Slot for GPS Module
- LCD Display at Front Side
- Blue LAMP
- Two(2) 10/100/1000Mbps Gigabit Ethernet Interface
- Dual(2) DB-9 RS232C Interface
- Internal Dual Power Supply
- Rack Mount Bracket (Option)
- GPS Antenna (Option)
- Option Module : AP-GPS-RS232
  - Two(2) DB-9 RS232C Interface Port
  - GPS Antenna Interface Port

# Hardware Specification

AP-GTR2000GD Gigabit Dual Power GPS NTP Server

RISC  
CPU

High-end  
GPS

## Front Side



Two(2) 10/100/1000Mbps  
LAN Ports

RS232C Console

Status LCD

On-Air Blue LAMP  
& Switch



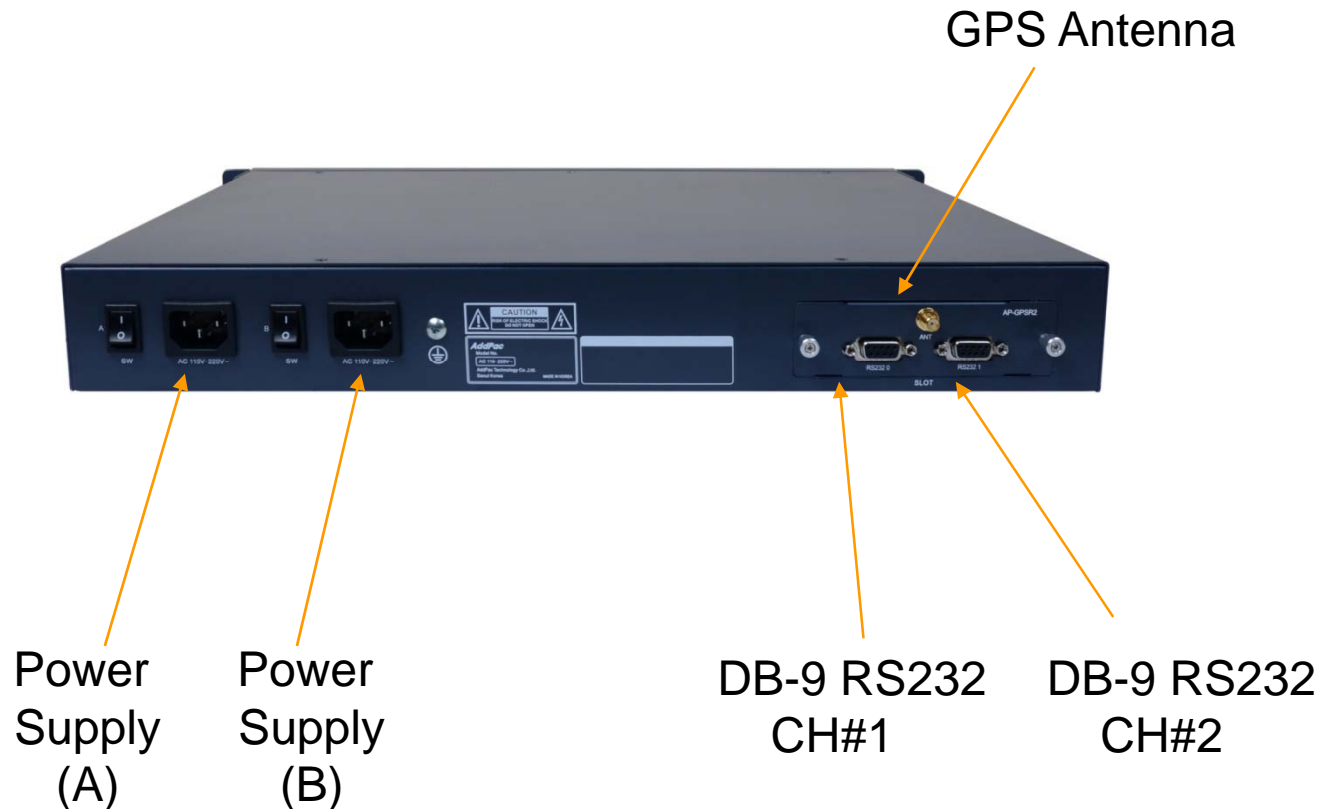
# Hardware Specification

AP-GTR2000GD Gigabit Dual Power GPS NTP Server

RISC  
CPU

High-end  
GPS

## Back Side



# Hardware Specification

AP-GTR2000 NTP Server with GPS Time Receiver

RISC  
CPU

High-end  
GPS

## GPS Antenna



# Embedded NTP Server AP-GTR2000



# Product Overview

## AP-GTR2000 Embedded GPS NTP Server

- Embedded NTP Server with GPS Time Receiver Module
- Linux Operating System
- High Performance GPS Time Receiver Terminal Solution
- Simple NTP Protocol Support
- IP based GPS Time Receiver (Location Free, etc)
- Dual RS232 Port for GPS Time Information Transmission
- LCD Display for GPS Time Information
- External Antenna Interface Support
- High Performance Antenna Support for GPS Signal
- Blue LAMP for Device Status
- Smart Web Manager for System Configuration & Management
- Window, Linux Simple Socket API Program Support
- Firmware Upgradeable Architecture
- Application : Integrated Security Management System, etc

# Hardware Specification

AP-GTR2000 Embedded GPS NTP Server

RISC  
CPU

High-end  
GPS

- RISC Microprocessor Computing Power
- High-end GPS Module Hardware Architecture
- One(1) Module Slot for GPS Module
- LCD Display at Front Side
- Blue LAMP
- Two(2) 10/100Mbps Fast Ethernet Interface
- Dual(2) DB-9 RS232C Interface
- Internal Power Supply
- Rack Mount Bracket (Option)
- GPS Antenna (Option)
- Option Module : AP-GPS-RS232
  - Two(2) DB-9 RS232C Interface Port
  - GPS Antenna Interface Port

# Hardware Specification

AP-GTR2000 Embedded GPS NTP Server

RISC  
CPU

High-end  
GPS

## Front Side



Two(2) 10/100Mbps  
LAN Ports

RS232C Console

Status LCD

On-Air Blue LAMP  
& Switch

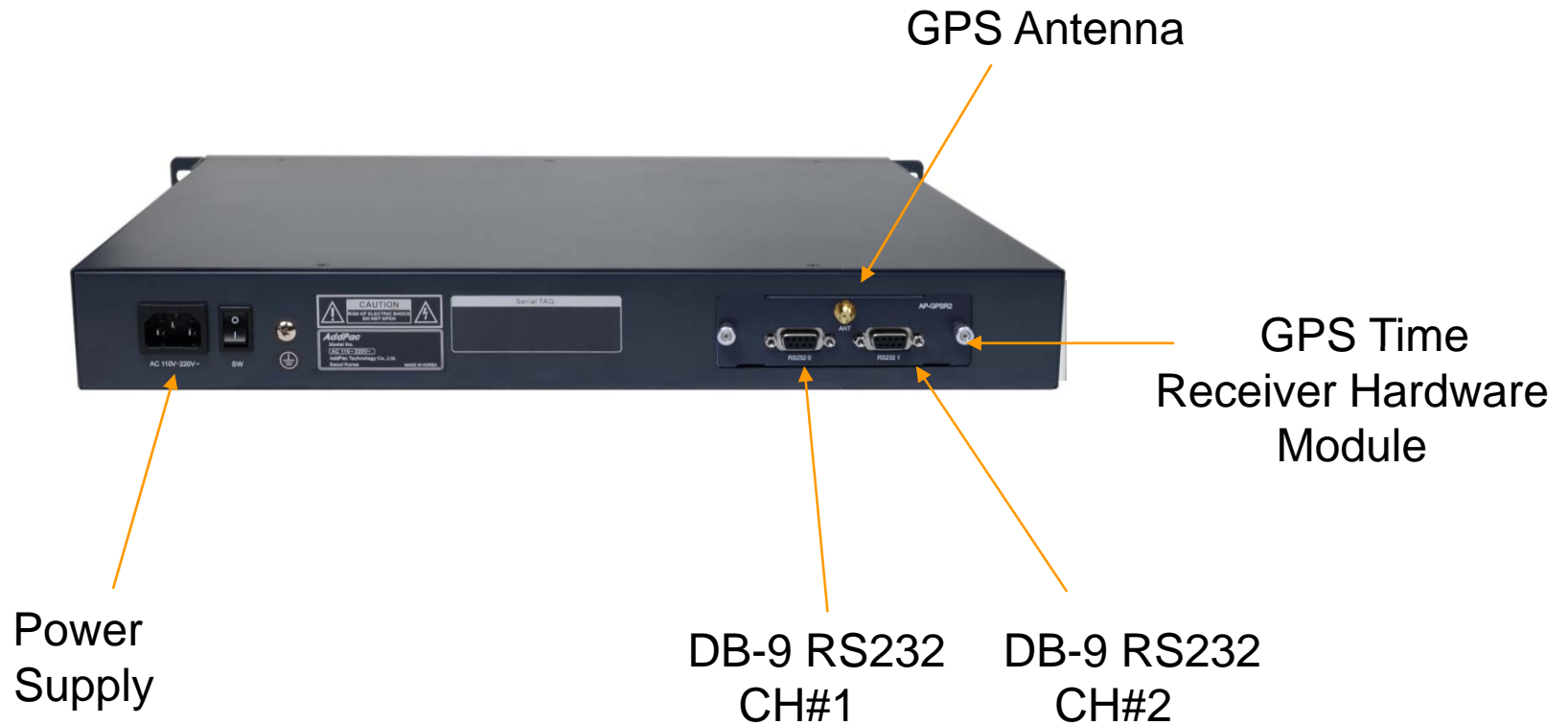
# Hardware Specification

AP-GTR2000 Embedded GPS NTP Server

RISC  
CPU

High-end  
GPS

## Back Side



# Hardware Specification

AP-GTR2000 Embedded GPS NTP Server

RISC  
CPU

High-end  
GPS

## GPS Antenna





# Embedded NTP Server AP-GTR1000



# Product Overview

## AP-GTR1000 Embedded GPS NTP Server

- Embedded NTP Server with GPS Time Receiver Module
- High Performance GPS Time Receiver Terminal Solution
- IP based GPS Time Receiver (Location Free, etc)
- Real-time APOS Operating System
- Simple NTP Protocol Support
- Dual RS232 Port for GPS Time Information Transmission
- LCD Display for GPS Time Information
- External Antenna Interface Support
- Various Antenna Support for GPS Signal
- Blue LAMP for Device Status
- Smart Web Manager for System Configuration & Management
- Window, Linux Simple Socket API Program Support
- Firmware Upgradeable Architecture
- Application : Integrated Security Management System, etc

# Hardware Specification

AP-GTR1000 Embedded GPS NTP Server

RISC  
CPU

High-end  
GPS

- RISC Microprocessor Computing Power
- High-end GPS Module Hardware Architecture
- One(1) Module Slot for GPS Module
- LCD Display at Front Side
- Blue LAMP
- One(1) 10/100Mbps Fast Ethernet Interface
- Dual(2) DB-9 RS232C Interface
- Internal Power Supply
- Rack Mount Bracket (Option)
- GPS Antenna (Option)
- Option Module : AP-GPS-RS232
  - Two(2) DB-9 RS232C Interface Port
  - GPS Antenna Interface Port

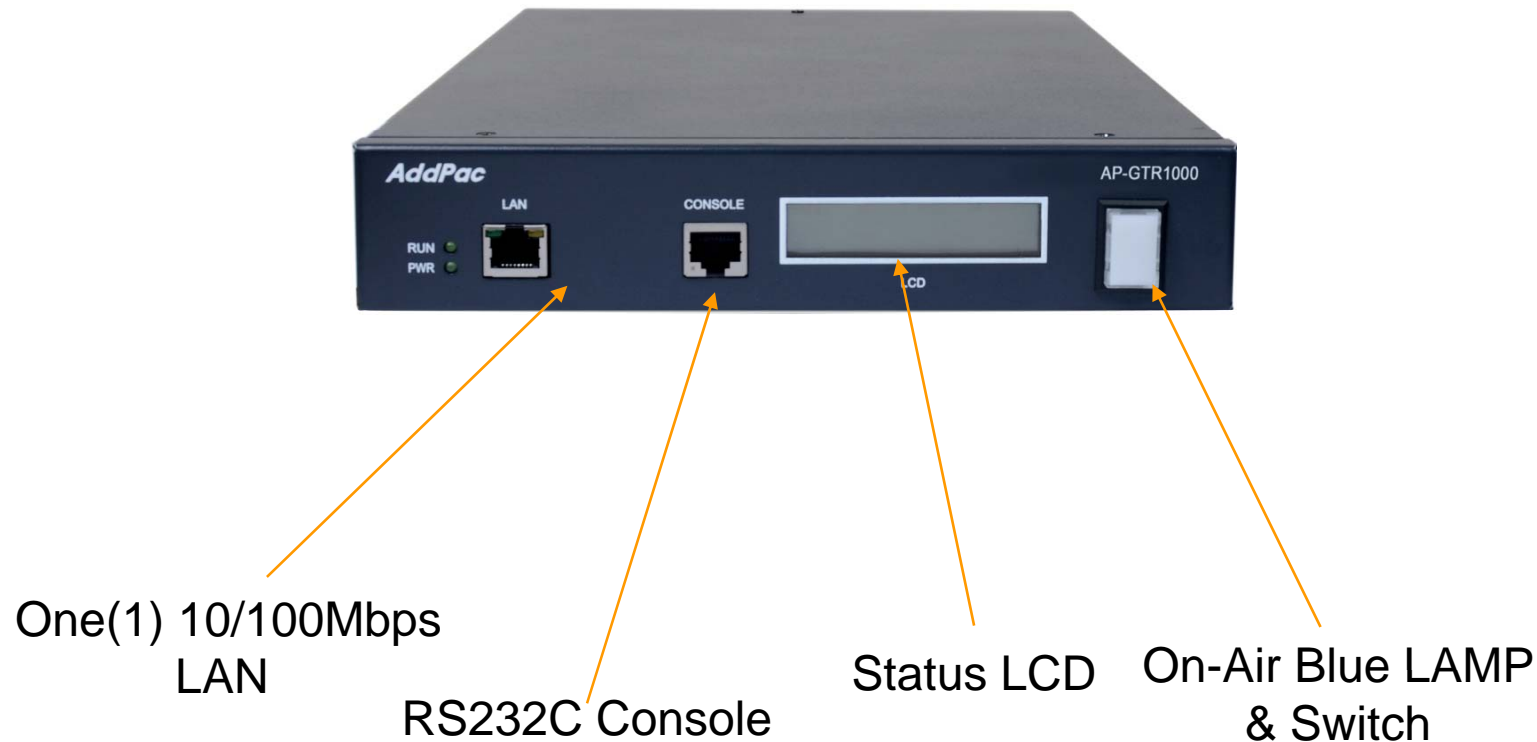
# Hardware Specification

AP-GTR1000 Embedded GPS NTP Server

RISC  
CPU

High-end  
GPS

## Front Side



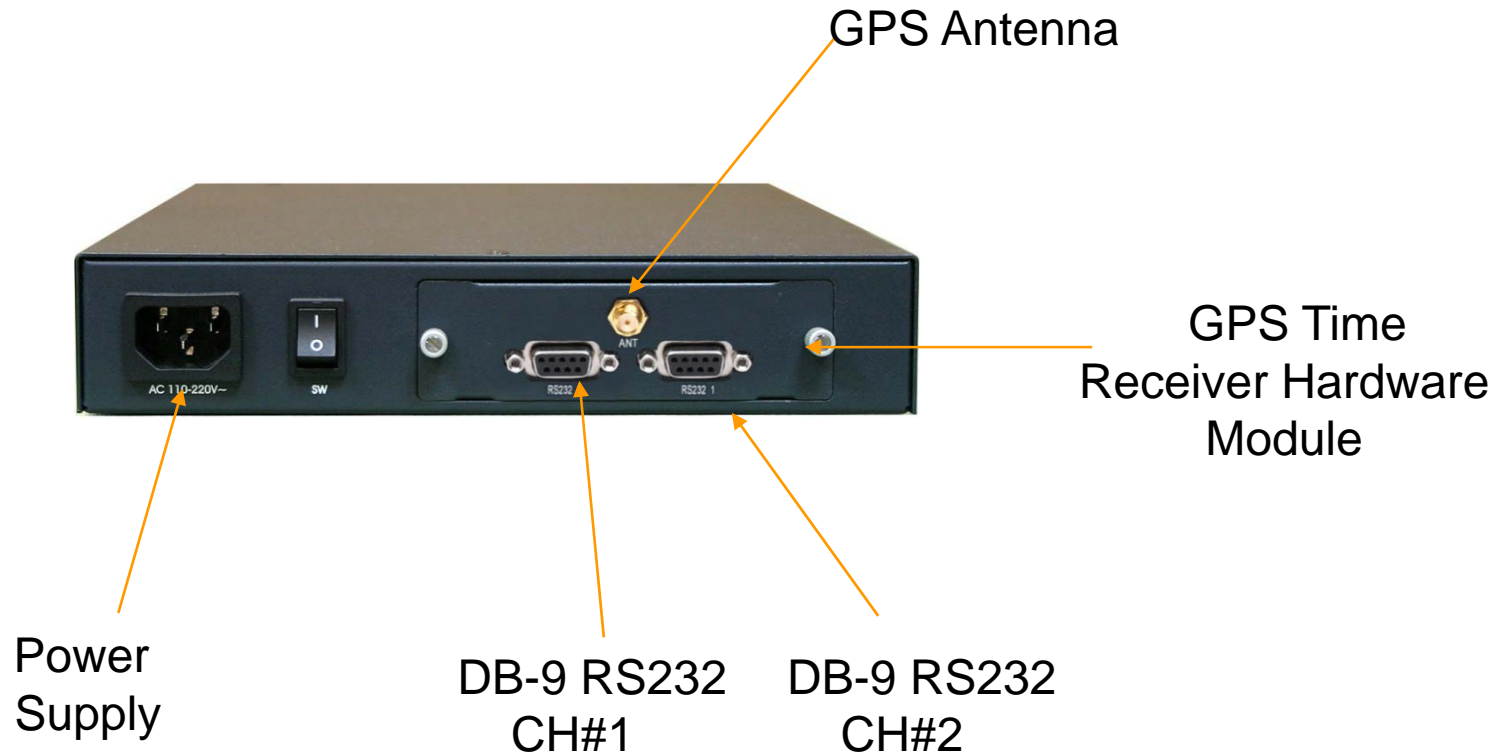
# Hardware Specification

AP-GTR1000 Embedded GPS NTP Server

RISC  
CPU

High-end  
GPS

## Back Side



# Hardware Specification

AP-GTR1000 Embedded GPS NTP Server

RISC  
CPU

High-end  
GPS

## GPS Antenna





# Thank you!

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