IP Emergency Video Call Center Solution





AddPac Technology

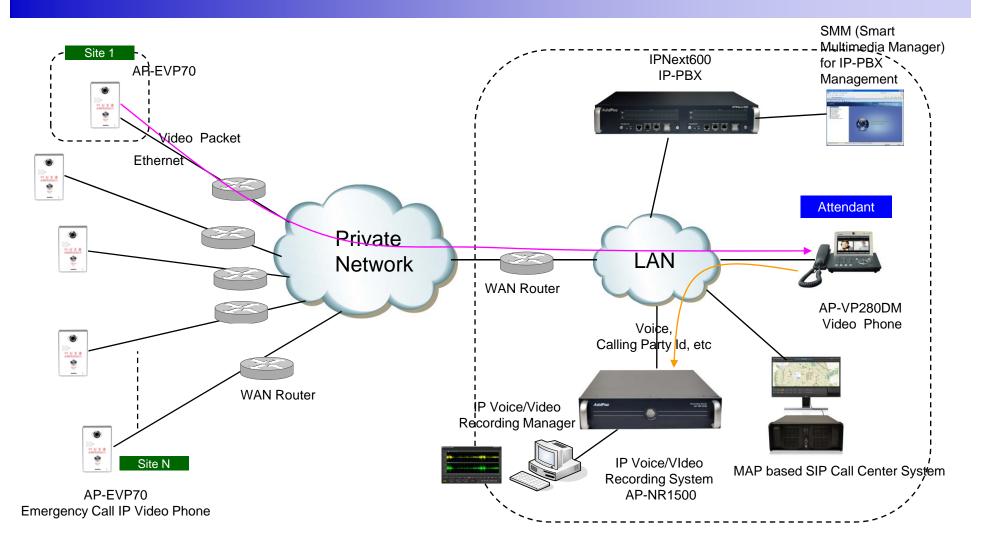
Sales and Marketing

www.addpac.com

Contents

- IP Emergency Video Call Center Network Diagram
- Emergency Call IP Video Intercom Comparison Table
 - AP-EVP90
 - AP-EVP70
- IPNext600 IP-PBX Solution for Call Center
- AP-VP280DM IP Video Phone Solution for Call Center
- AP-NR1500 IP Video Recording Server
- AP-MSCS MAP based SIP Emergency Call Center System
- AP-GTR1000 based Embedded NTP Server for Time Sync. (Option)

Network Diagram



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Emergency Call IP Video Intercom Solution



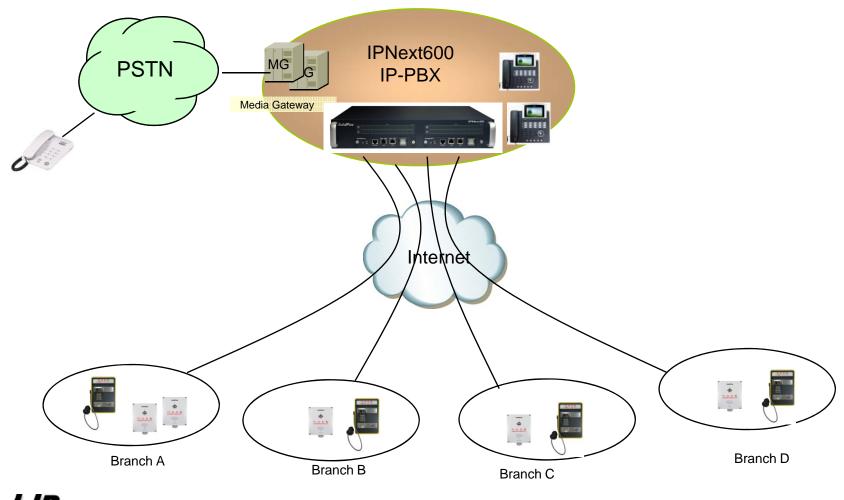
Emergency Call IP Video Intercom Comparison Table

Model	AP-EVP100	AP-EVP95	AP-EVP90	AP-EVP70
Service Features	ENERGINEY CALL		で は か で で の の の の の の の の の の の の の	
Voice Duplex	icul Duplex	Full Duplex	Full Duplex	Full Duplex
Key Pad	3x4 Key Support	Call Button	Call Button	Call Button
Handset	Support	N/A	N/A	N/A
Video Codec	H.264/MPEG4/H.263	H.264/MPEG4/H.263	H.264/MPEG4/H.263	H.264/MPEG4/H.263
HD/SD	SD	HD	SD	SD
AutoFocus	N/A	Support	N/A	N/A
Day & Night	N/A	Support	N/A	N/A
Voice Codec	G.711/G.726,etc	G.711/G.726,etc	G.711/G.726,etc	G.711/G.726,etc
Signaling	H.323/SIP	H.323/SIP	H.323/SIP	H.323/SIP
Speaker Phone	Support	Support	Support	Support
LAN Port	1	1	1	1
PoE(Option)	Support	Support	Support	Support

IPNext600 IP-PBX Solution for Call Center



Network Diagram





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Product Overview

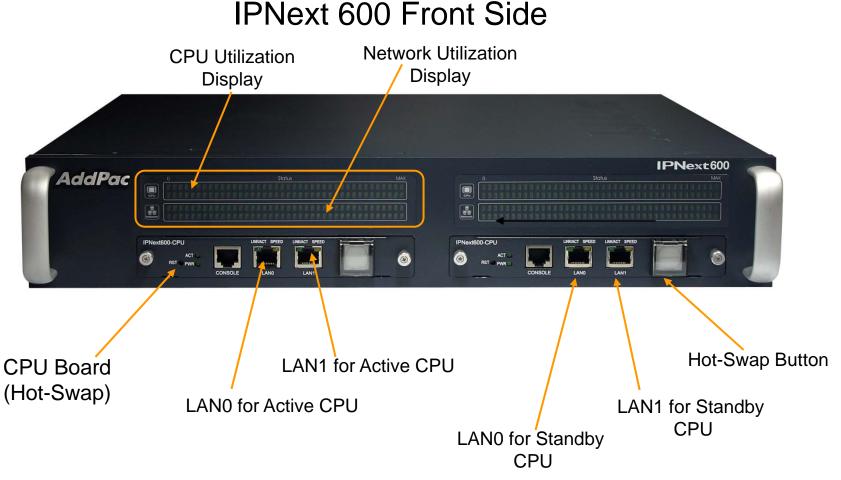
IPNext 600 Next Generation IP-PBX System

- SIP Application Server, Proxy, Registrar and Location Server
- Multiple ITSP Trunk with SIP & H.323 Accounts Support
- Dual System Redundancy Architecture
 - Two(2) Fast Ethernet Interface / System
- High Performance RISC Architecture
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- IPv4/IPv6 Dual Stack
- RTP Proxy Function Embedded for Private IP and IPv6 Address Interworking
- User Presence Service Features for Smart Multimedia Messenger and Smart IP Phone
- IVR Scenario Editor, Voice Mail, Media Service (Coloring), Conference
- Firmware Upgradeable Architecture
- Smart Multimedia Manager for IP-PBX Management
- Smart Messenger Service (click to dial) for Unified Communication
- Smart NMS for Large Scale Deployment
- Advanced Voice QoS Mechanism
- Dual Redundancy Power Module

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IPNext 600 Next Generation IP-PBX System

RISC CPU



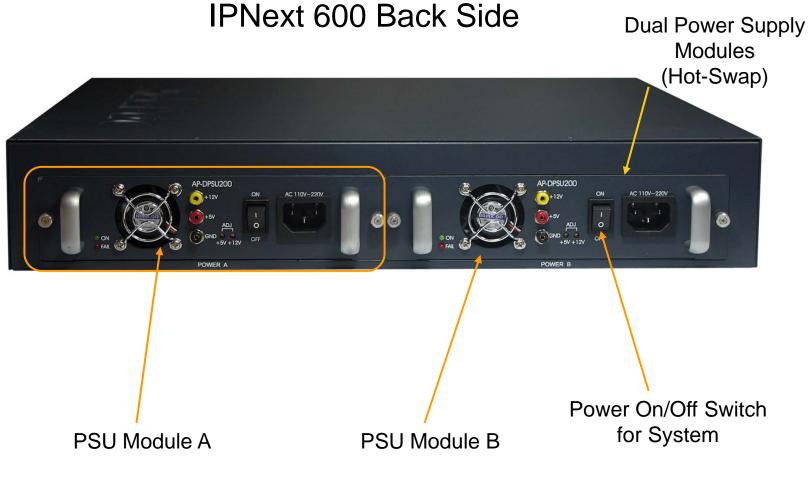
IPNext 600 Front Side

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IPNext 600 Next Generation IP-PBX System

RISC CPU



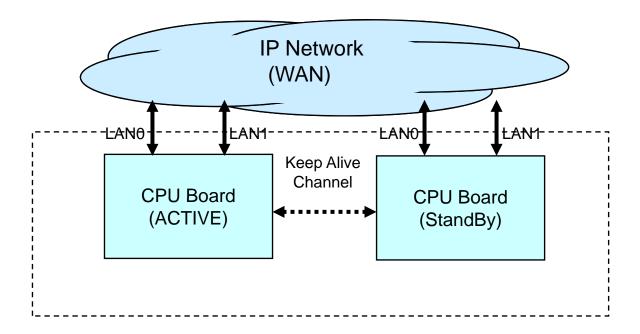


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System Redundancy Features

IPNext 600 Next Generation IP-PBX System

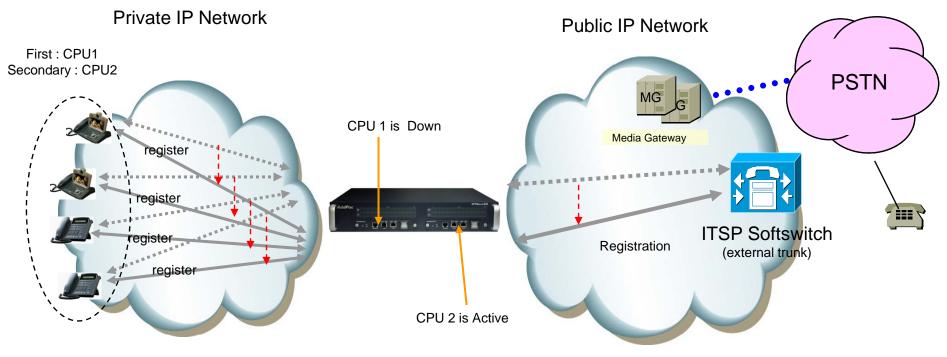
IPNext600 System Block Diagram



System Redundancy Features

IPNext 600 Next Generation IP-PBX System

- Active-Active Duplication Scheme
- Active Standby Duplication Scheme
- VRRP based Duplication Scheme



Active - Standby Duplication Scheme (example)



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IP Video Phone Solution for Emergency Call Center



IP Video Phone Comparison Table

	AP-VP280DM						
LCD Size	7 Inch Touch Screen						
Camera	CMOS						
Video Codec	H.263 MPEG4 H.264						
Signaling	H.323/SIP						
Camera Sensor	SD						
Video Resolution	SD						
External Monitor	HDMI						
LAN Port	1						
PoE	Support						
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AP-NR1500 IP Video Recording Server





Product Overview

AP-NR1500 IP Video Recoding Server

- IP based Network Video Recording Server
- Linux Operating System
- Powerful Management and User Friendly Features
- High-performance Video Recording Service
- External AddPac Video Terminal (Ex: Video Phone) Interworking Support
- Firmware Upgradeable Architecture
- One(1) 10/100/1000Mbps Gigabit Ethernet Interface
- Up to Two(2) 3.5Inch SATA Hard Disk Interface Support
- Two(2) USB Interface Support
- One(1) RS232C Console Interface



AP-N1500 IP Video Recording Server

- High Performance Computing Power
- Network Interface
 - One(1) 10/100/1000Mbps Gigabit Ethernet Port
- Two(2) USB 2.0 Interfaces for Mouse, Secondary Storage, etc
- One(1) RS232C Console Interface (RJ45)
- Up Two(2) SATA type Hard Disk (4~8 Tera HDD Capacity)
- Power On/Off Soft Switch with LED Indication Lamp (Front Side)

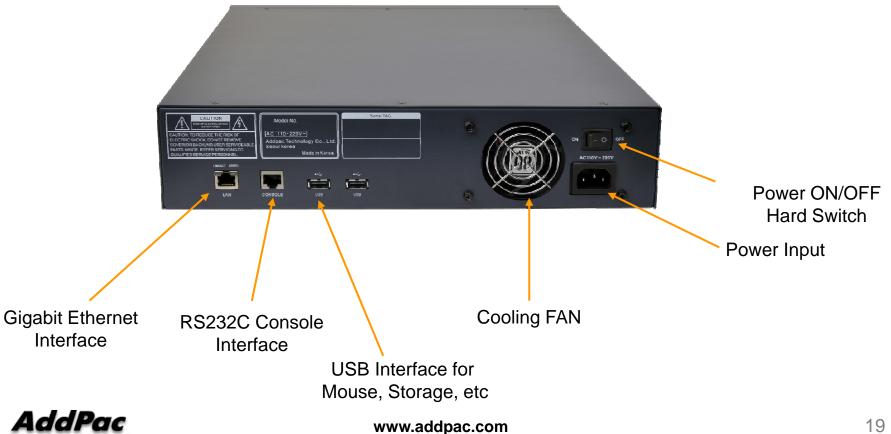
AP-NR1500 IP Video Recording Server

AP-NR1500 Front Side



AP-NR1500 IP Video Recording Server

AP-NR1500 Back Side



Software Service

AP-NR1500 IP Video Recording Server

- Built-in AddPac Internetworking Software
 - Scalability, Functionality, and Stability Features
 - Advanced Network Video Recording & Live Streaming Features
- Firmware Upgradeable Architecture
- Industry Standard Network Protocol Features
- Highly User Friendly Management Features
 - PC based Window Program
 - Smart Recording Manager

AddPac APOS
AddPac Smart DVR Manager



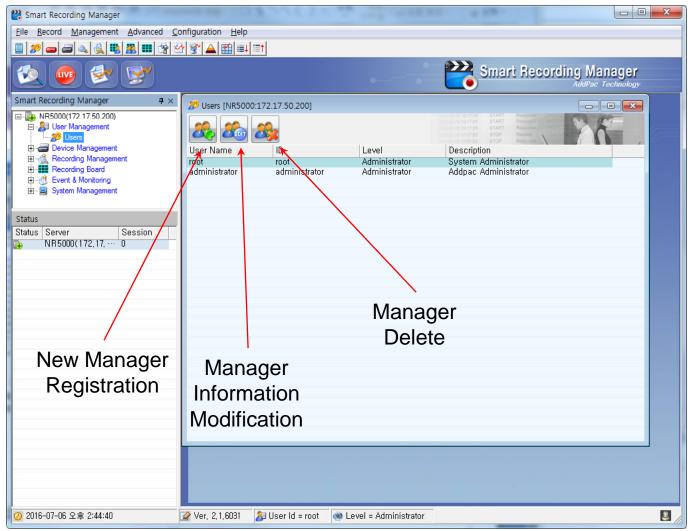
Smart Recording Manager Program

AP-NR1500 IP Video Recording Server

- User Management (registration/modify/delete/search)
- Recording Server Management
- Recording File Management
- Recording File Play with VLC application
- Export Recording History to File(EXEL)
- Live Call Monitoring (Play)
- Event Management
- Recording Board Management
- Smart Recording File Manager

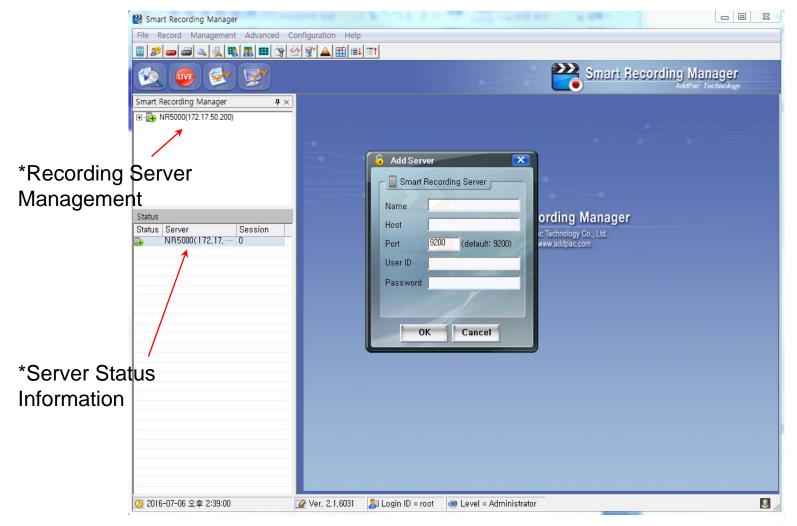


User Management



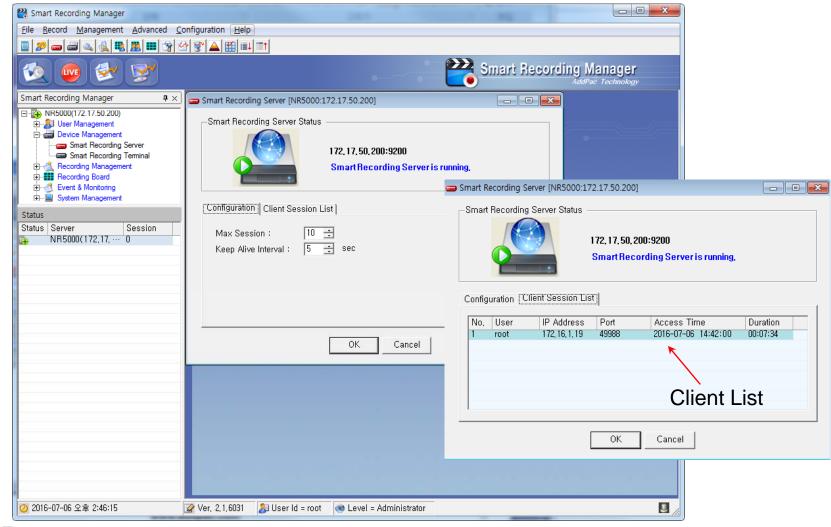


Recording Server Management





Recording Server Status Monitoring



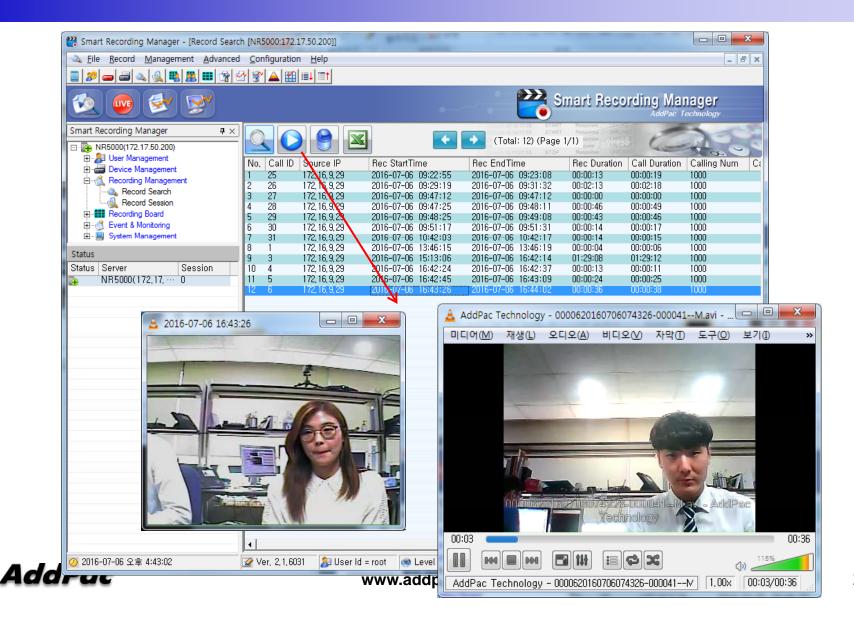


Recording File Management

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Recording File Play with VLC application



Live Call Monitoring

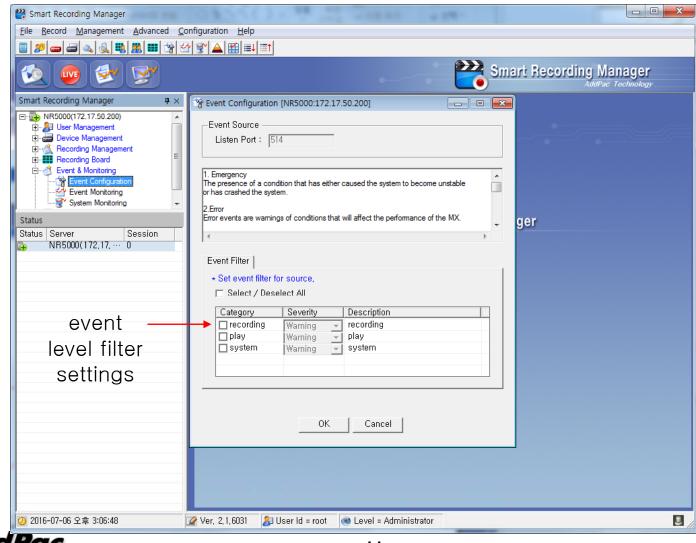
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aarac				w.addpa		28 28 172.16.9.29 29 29 172.16.9.29	2016-07-06 9:47 2016-07-06 9:48			0/0/0	3000	0/0/0	

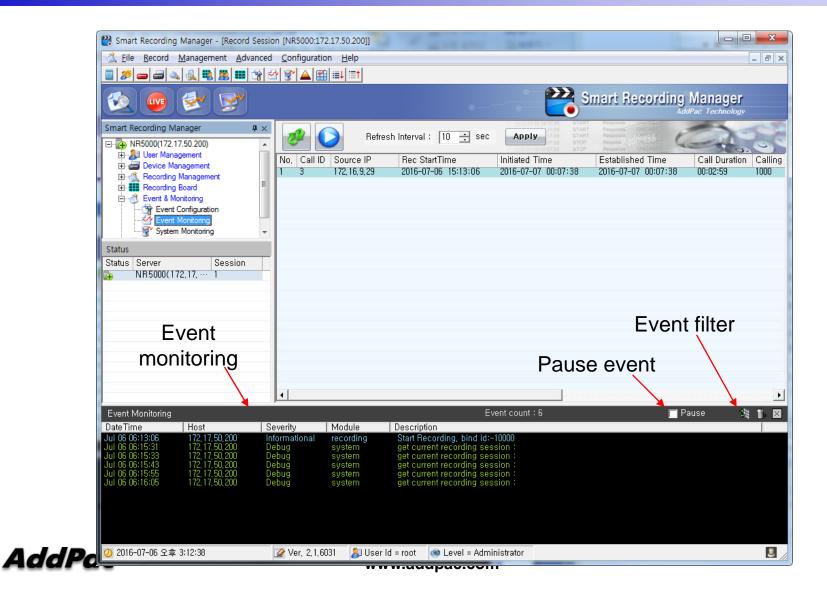
28

Event Configuration





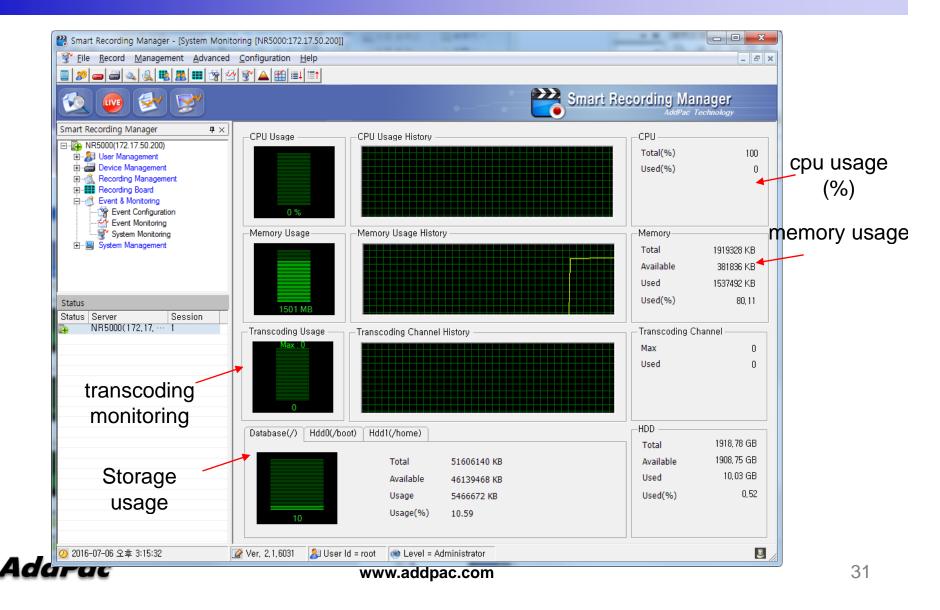
Event Management (Monitoring)



30

Event Management

(System Monitoring)



Recording Board (User)

Smart Recording Manager - [Users [NR500]	00:172.17.50.200]]	10.0		-	
Eile Record Management Advanced	<u>C</u> onfiguration <u>H</u> elp				_ 8 ×
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	2 jhkwon 3 jschoi	Kwon Choi Jin suk	3000 1007		NMS NMS
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Groups Map List					
Imap ⊔st Event & Monitoring					
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Status					
Status Status Server Session					
№ NR5000(172,17,… 1					
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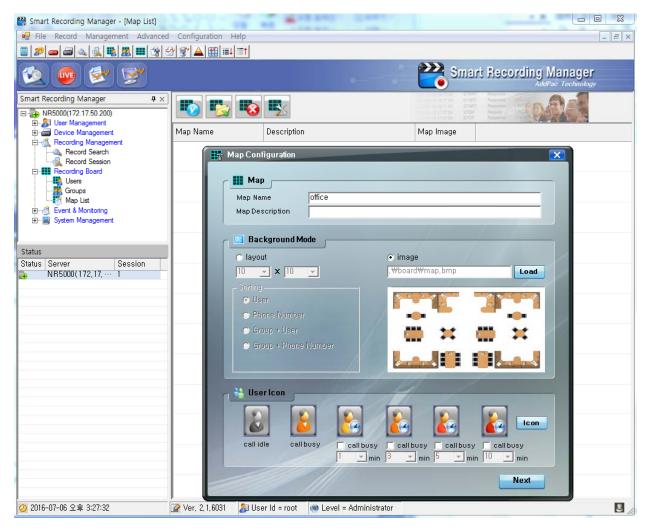


Recording Board (Group)

😤 Smart Recording Manager - [Groups [NR56	000:172.17	7.50.200]]				
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🕗 2016-07-06 오후 3:26:00	📝 Ver, 2	2,1,6031 🛛 👃 User Id = root 🛛 💿 Level = Administrator				.

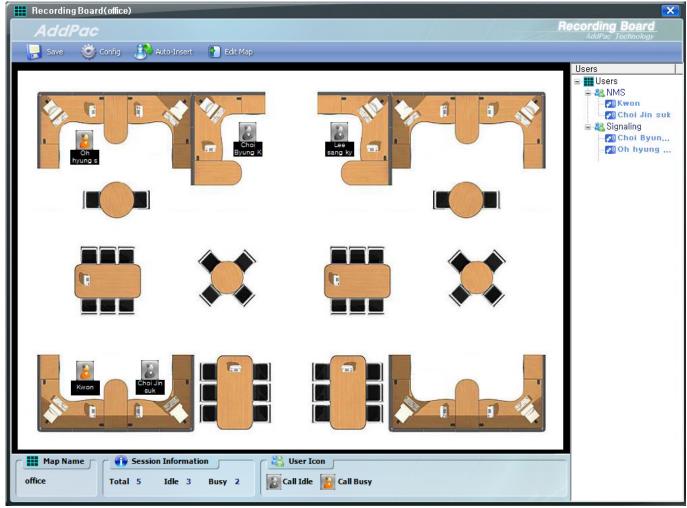


Recording Board (Map)





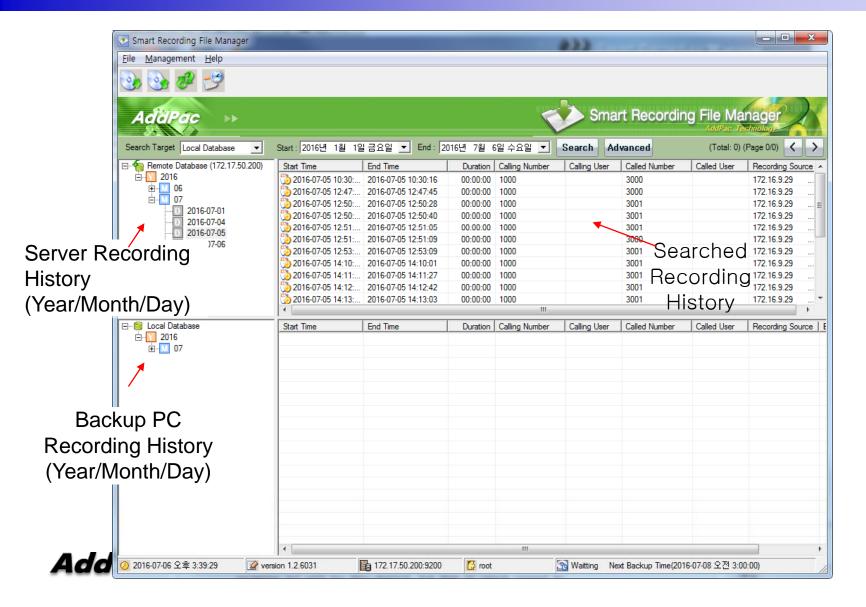
Recording Board (Map Editing and user monitoring)





Smart Recording File Manager

(Recorded Call List Search)



Smart Recording File Manager (Configuration)

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AddPc						Sma	art Recordin	ng File Ma	Inager
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Ė… <u>M</u> 07–		2016-07-05 12:47:	2016-07-05 12:47:45	00:00:00	1000		3000 3001		172.16.9.29 172.16.9.29
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	F II Information						3000		172.16.9.29
	Port	(Default:	21)				3001		172.16.9.29
	Username	root	- 217				3001		172.16.9.29 172.16.9.29
		-					3001 3001		172.16.9.29
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	-Media Player-								
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Smart Recording File Manager

(Call List Properties)

Smart Recording File Manager					#22	-				
e Management Help										
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AddPac 🕠					Sma	irt Re	cordin	g File N	lanager	
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2016-07-05	2016-07-05	Delete		0:00:00 1000		3000			172.16.9.2	
	2016-07-05	Refresh F5		0:00:00 1000		3001			172.16.9.2	
	2016-07-05	Properties		0:00:00 1000		3001			172.16.9.2	
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	2016-07-05 14:13:	Recording Session Inf	orma	tion						
😝 Local Database		Filename		Start Time	End Time		Duration	Size	Audio Codec	Transcoding Cod
ien <u>1</u> 2016	Start Time	((0003020160706005	117	2016-07-06 09:51:17	2016-07-06 09:5	51:31	00:00:14	1,763 KB	G711U	G711U
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Smart Recording File Manager

(Server to Local Backup)

File Management Help							
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					initia de la casa	100000000000000000000000000000000000000	65
AddPac >>						ng File Ma	nager
	Download				×	AddPac To	chnolog)
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	/home/callrecfiles/20160706/0/00 00:		2016-07-06 09:2				172.16.9.29
	home/callrecfiles/20160706/0/00 00:		2016-07-06 09:2				172.16.9.29
2016-07-01	/home/callrecfiles/20160706/0/00 00:		2016-07-06 09:2				172.16.9.29
2016-07-04	/home/callrecfiles/20160706/0/00 00:						172.16.9.29
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2016-07-06	2 million 2 mill						172.16.9.29
	/home/callrecfiles/20160706/0/00 00: home/callrecfiles/20160706/0/00 00:		2016-07-06 09:4				172.16.9.29
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		Start	Cancel	Close			
	Error Log History	Jidit	Canuel	Ciuse			
	G						
Ø 2016-07-06 오후 3:43:41	rsion 1.2.6031	root	61		-	6-07-08 오전 3:0	



Smart Recording File Manager (Recorded Call List Search)

Stat Time End Time Duration Calling Number Called Number Called User Recording ● 06 ○ 2016-07-06 12:04: 2016-07-06 5155 172:17:50 ● 07 016:07-01 ○ 2016-07-06 12:04: 2016-07-06 5167 172:17:50 ○ 2016-07-04 ○ 2016-07-06 12:04: 2016-07-06 5085 5185 172:17:50 ○ 2016-07-06 12:04: 2016-07-06 12:04: 2016-07-06 12:04: 2016-07-06 12:04: 2016-07-06 12:04: 2016-07-06 12:07:50 172:17:50 ○ 2016-07-06 12:04: 2016-07-06 12:04: 2016-07-06 12:07:50 172:17:50	Search Target Remote Database Start 2016년 1월 1일 금요일 ▼ End: 2016년 7월 6일 수요일 ▼ Search Advanced (Total: 492248) (Page 1493) Search Database (172.17.50.30) Start Time End Time End Time Duration Calling Number Calling User Called Number Called User Recording 2016/07/06 12:04 2016/07/06 12:04.35 00:00:09 5055 5155 172.17.50 2016/07/01 2016/07/01 2016/07/06 12:04 2016/07/06 12:04.42 00:00:09 5055 5155 172.17.50 2016/07/01 2016/07/01 2016/07/06 12:04 2016/07/06 12:04.42 00:00:09 5055 5155 172.17.50 2016/07/01 2016/07/06 2016/07/06 12:04 2016/07/06 12:04.42 00:00:09 5085 5158 172.17.50 2016/07/06 2016/07/06 12:04 2016/07/06 12:04.42 00:00:09 5098 5138 172.17.50 172.17.50 2016/07/06 2016/07/06 12:04 2016/07/06 12:04.42 00:00:09 5098 5138 172.17.50 172.17.50 2016/07/06 2016/07/06 12:04 2016/07/06 12:04.42 00:00:09 5098 5138 172.17.50 172.17.50 Search Filter Precord Time 172.17.50 Start 2016/07/06 2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/	File Management Help	
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Start Time End Time Duration Calling Number Called Number Called User Recording 0	Remote Database (172:17:50.30) Stat Time End Time Duration Calling Number Sarch Filter T22 T5:0 T	AddPac >>	
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Filter Filter Name Rule Search Calling Number IsExactly 5067 Glank> Calling Number IsExactly Glank>	Filter Filter 172.17.50 Filter Filter Name Rule Search Calling Number ISExactly 5067 CBlank> Called User Recording CBlank> ISExactly CBlank> CBlank> ISExactly CBlank> Called User Called User		2016-07-06 12:04: 2016-07-06 12:04:34 00:00:09 5055 5155 172.17.50. 2016-07-06 12:04: 2016-07-06 12:04:35 00:00:09 5067 5167 172.17.50. 2016-07-06 12:04: 2016-07-06 12:04:38 00:00:09 5085 5185 172.17.50. 2016-07-06 12:04: 2016-07-06 12:04:42 00:00:09 5085 5185 172.17.50. 2016-07-06 12:04: 2016-07-06 12:04:42 00:00:09 5098 5198 172.17.50. 3earch Filter 172.17.50. 172.17.50. 172.17.50. 172.17.50. Record Time
	<blank> IsExactly Clear Recording Service Unavailable Files (not G711U codec) OK Cancel</blank>	2016	Filter 172.17.50. Filter Name Rule Search 172.17.50. Calling Number IsExactly <blank> IsExactly <blank> IsExactly <blank> IsExactly</blank></blank></blank>
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Smart Recording File Manager (Periodical Backup)

Smart Recording File Manager File Management Help		
AddPac >> Search Target Local Database	Start: 2016년 1월 1일 금요일 End: 2016년 7월 6일 수요일 Search Advanced	File Manager
Remote Database (172.17.50.30		
E 2016	Start Time End Time Duration Calling Number Calling User Called Number 3 2016-07-06 12:04: 2016-07-06 12:04:34 00:00:09 5055 5155	Called User Recording Source 172.17.50.26
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	Schedule Setting	172.17.50.26
0 2016-07-01 0 2016-07-04	And a second sec	172.17.50.26
2016-07-05	Recording Source 🔽 Scheduler Run / Stop	172.17.50.26
	□-♥ Source	172.17.50.26
		172.17.50.26
		172.17.50.26
	□ 🔂 172, 17, 50, 80	172.17.50.26
	⊂ Monthly : Day 1 💌	172.17.50.26
🕞 🙀 Local Database		alled User Recording Source
<u>⊢</u>	Start Time : 03:00:00 ÷	172.16.9.29
<u>⊢</u> <u>M</u> 07	Option	172.16.9.29
2016-07-06	Delete files after download	
	Download to file overwrite	
	Directory C:#AddPac#RecordingBackupData	
	OK Cancel	
	< III	
🕗 2016-07-06 오후 3:56:43 🛛 📝	version 1.2.6031 👔 172.17.50.30:9200 🚺 root 🔯 Waitting Next Backup Time(2016-0	07-08 오전 3:00:00)
-uc		,

41

MAP based SIP Emergency Call Center System (AP-MSCS)

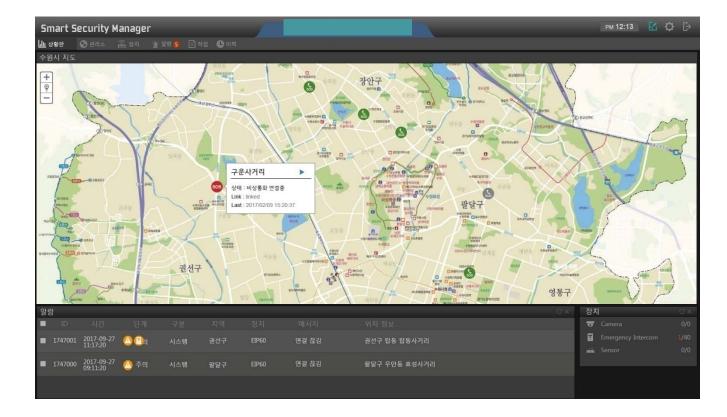




MAP based SIP Emergency Call Service Overview

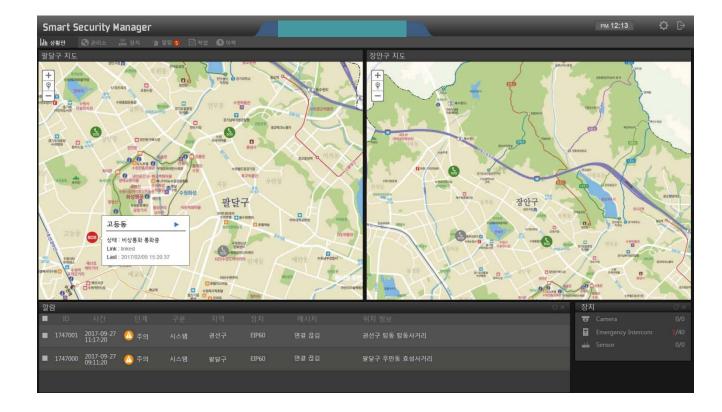
- JavaScript based Interactive MAP Service
- Integrated Security Management Service via MAP based Device Overlay Display
- SIP Emergency Call Phone, Video Phone, etc, Geographical Display on MAP for Instinctive Control Service
- MAP Editor Service (Background Image, Device Lists, etc)
- MAP based Emergency Call IP Video Intercom Status Display
- Zoom to Area, Double Click Zoom, Scroll Wheel Zoom, etc
- Tile Layer, etc

MAP based SIP Emergency Call Service Overview (Example)



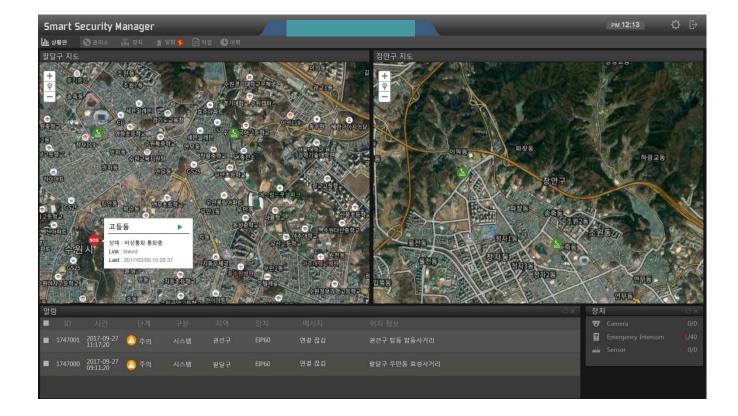
AddPac

MAP based SIP Emergency Call Service Overview (Tile Layer Example)

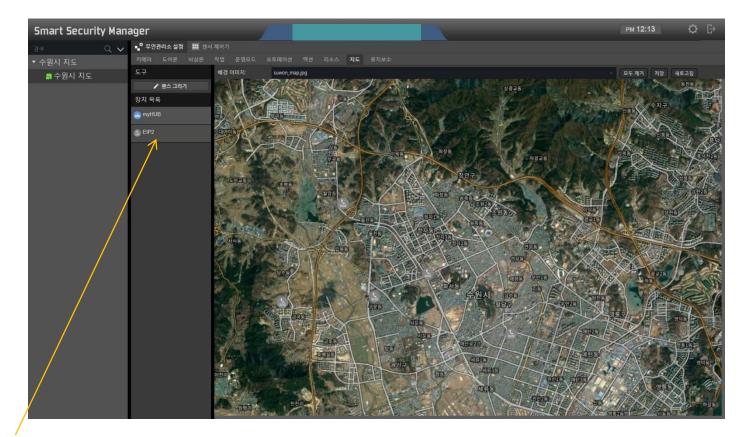


AddPac

MAP based SIP Emergency Call Service Overview (Tile Layer Example)



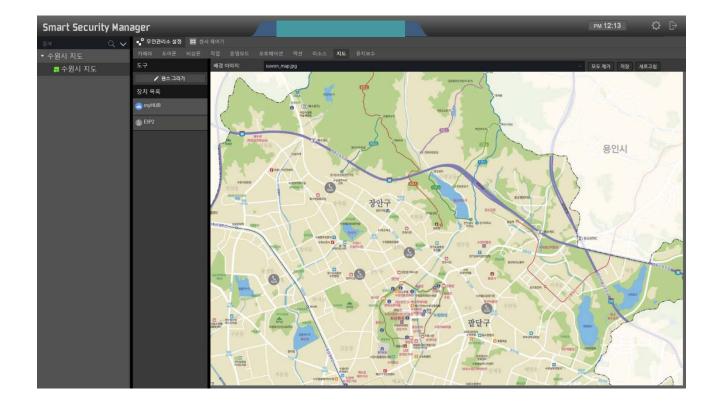
MAP based SIP Emergency Call Service Overview (MAP Editor Service)



Device Lists : IP Emergency Call Phone, IP paging terminal etc **AddPac**

www.addpac.com

MAP based SIP Emergency Call Service Overview (MAP Editor Service)



GPS based Embedded NTP Server for Time Sync. AP-GTR1000





Contents

- Product Overview
- Hardware Specification
- Simple NTP (Network Time Protocol)
- Network Diagram





Product Overview

AP-GTR1000 IP based GPS Time Receiver Terminal

- High Performance GPS Time Receiver Terminal Solution
- IP based GPS Time Receiver (Location Free, etc)
- NTP (Network Time Protocol) Sever Solution
- 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
- Broadcasting Solution with Outstanding Network Service Capability



Hardware Specification

AP-GTR1000 IP based GPS Time Receiver Terminal

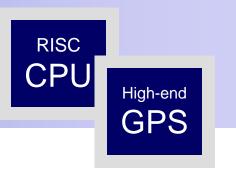
- RISC Microprocessor Computing Power
- High-end GPS Module Hardware Architecture
- One(1) Module Slot for GPS Module
- LCD Display at Front Side
- Blue LAMP
- One(1) 10/100Mbps Fast Ethernet Interface
- Dual(2) DB-9 RS232C Interface
- Internal Power Supply
- Rack Mount Bracket (Option)
- GPS Antenna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



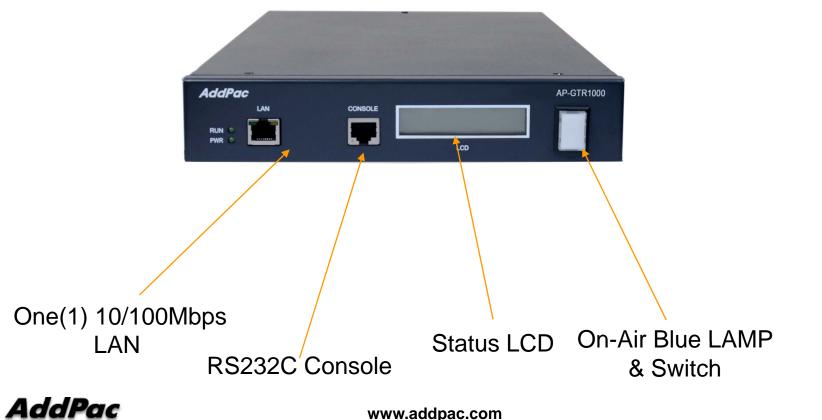


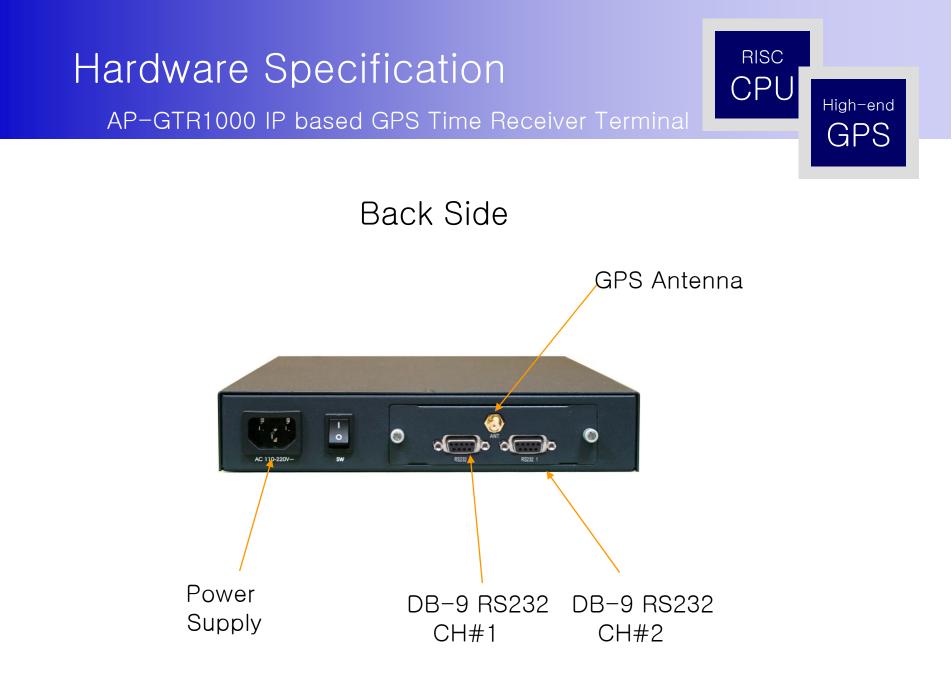
Hardware Specification

AP-GTR1000 IP based GPS Time Receiver Terminal



Front Side





Hardware Specification

AP-GTR1000 IP based GPS Time Receiver Terminal

GPS Antenna



RISC

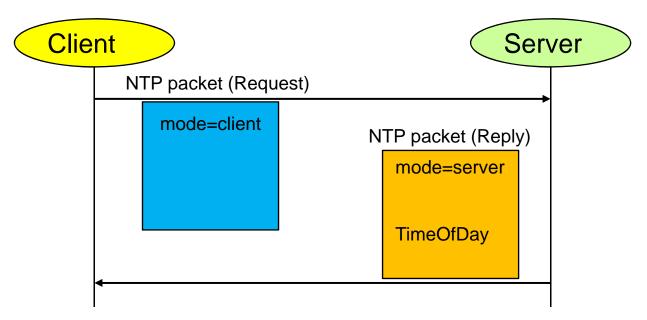
CPU

High-end

GPS

SNTP (Simple Network Time Protocol)

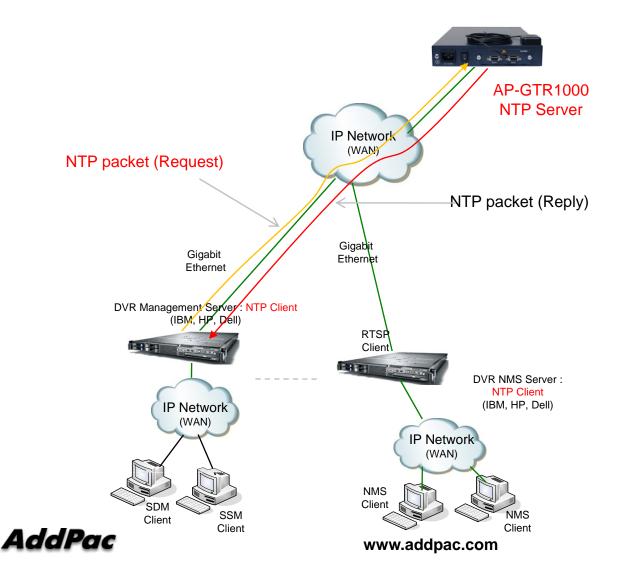
- Transport : UDP (port number 123)
- Protocol Version : 4
- Client/Server Mode



SNTP (Simple Network Time Protocol)

nt 1	Client N	Server
	NTP packet (Request)	
4	NTP packet (Reply)	
I		
	NTP packet (Request)	
	NTP packet (Reply)	
	·	

SNTP (Simple Network Time Protocol)



Thank you!

AddPac Technology Co., Ltd. Sales and Marketing

Phone +82.2.568.3848 (KOREA) FAX +82.2.568.3847 (KOREA) E-mail : sales@addpac.com

