

Emergency Call IP Video Phone Solution

Emergency Call IP Video Phone solution

- AP-EVP100 Emergency Call IP Video Phone
- AP-EVP95 Emergency Call IP Video Phone
- AP-EVP90 Emergency Call IP Video Phone
- AP-EVP70 Emergency Call IP Video Phone

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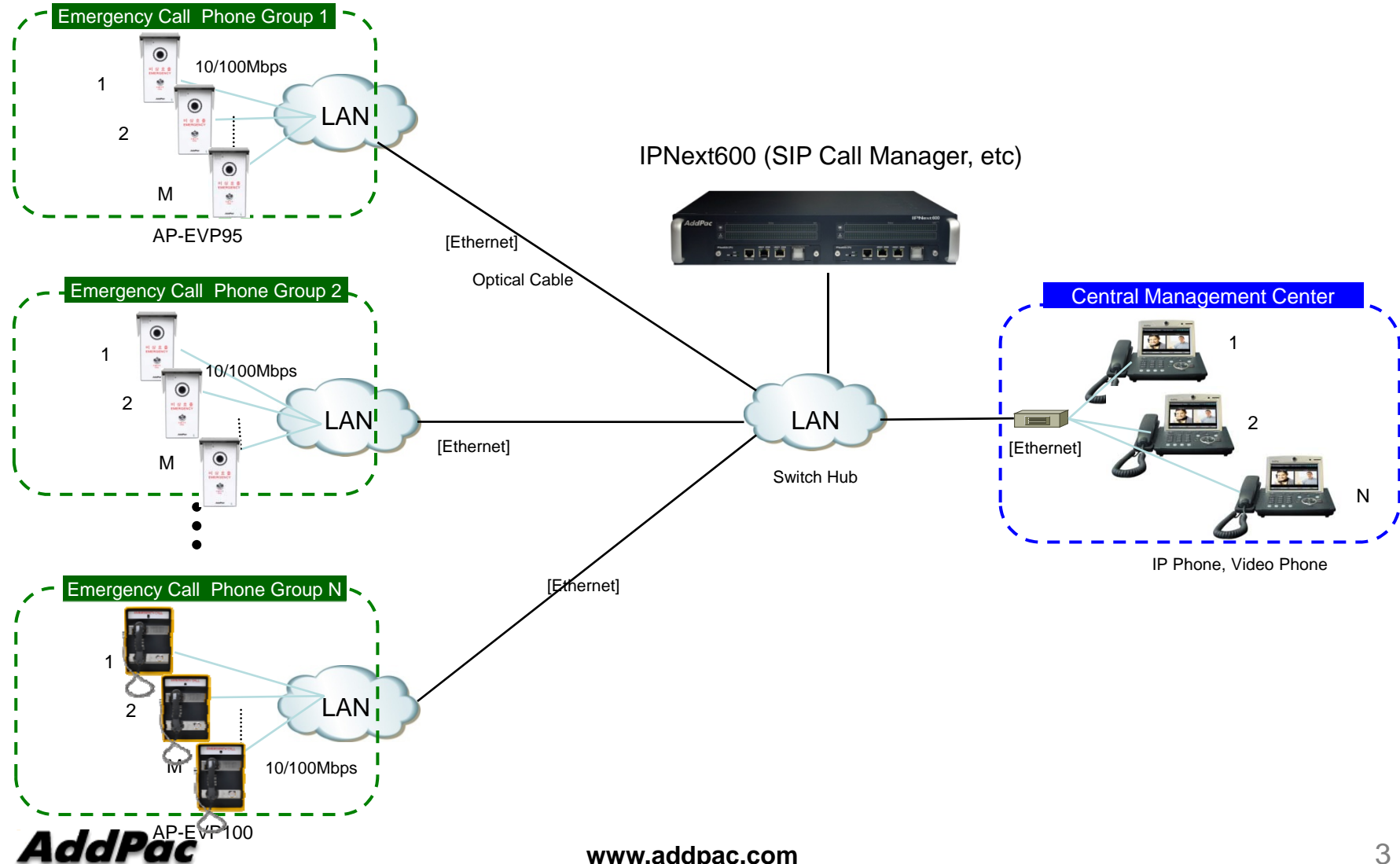
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- Video Recording Solution for Emergency Call Center
- NMS (Network Management System) for Emergency Call IP Video Phone

Emergency Call IP Video Phone Service Diagram



Emergency Call IP Video Phone Comparison Table

| Model | AP-EVP100 | AP-EVP95 | AP-EVP90 | AP-EVP70 |
|------------------|---|---|---|---|
| Service Features |  |  |  |  |
| Voice Duplex | Full 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(Optional) | Support | Support | Support | Support |



AP-EVP100

Emergency Call IP Video Phone

Product Overview

AP-EVP100 Emergency IP Video Phone

- Emergency Call IP Video Phone Solution
- High-performance Video, Audio and Voice Service
- SIP VoIP Signaling Stack Embedded
- High-performance Video/Voice Codec Support
 - H.264/MPEG4/H.263, G.711, etc
- One(1) 10/100Mbps Fast Ethernet
- PoE(Power over Ethernet) Support
- High Quality Speaker Phone Features
- Powerful Acoustic Echo Canceller Chip Embedded
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Firmware Upgradeable Architecture
- VVoIP Solution with Outstanding Network Service Capability
- Audio/Video Privacy Protection

Hardware Specification

AP-EVP100 Emergency IP Video Phone

- RISC+DSP Microprocessor Computing Power (Dual Processor Architecture)
- Video Camera Interface
- Audio and Voice Interface
 - Internal MIC
 - Internal Speaker
 - Hand Set, On/Off Hook
 - 3 x 4 keyPAD
- Emergency Call Button
- Network Interface
 - One(1) 10/100Mbps Fast Ethernet
- Power Supply
 - Power over Ethernet

Hardware Specification

AP-EVP100 Emergency IP Video Phone

Hardware Specifications

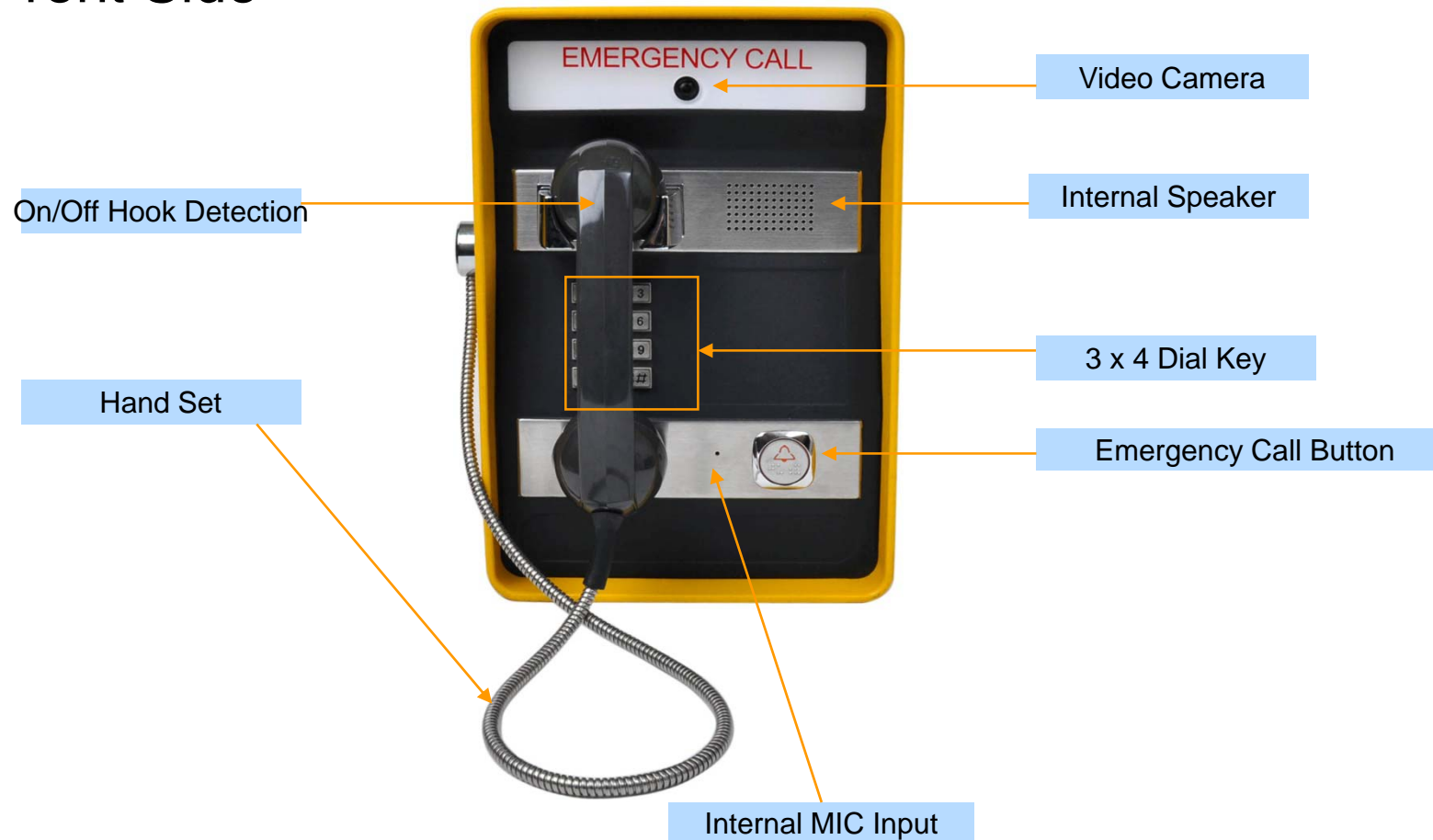
| AP-EVP100 IP Video Phone | Basic Specifications |
|--------------------------|--|
| CPU | RISC+ DSP Microprocessor |
| Ethernet Interface | 1-Ports 10/100Mbps Ethernet Interface(RJ-45) |
| Flash Memory | 512Mbyte NAND FLASH |
| Base Memory | 128Mbyte DDR |
| Power Requirement | Power over Ethernet, 12Watt |
| Operating Temperature | 0°C ~ 45°C (32 °F ~ 122°F) |
| Storage Temperature | -40°C ~ 85°C (-40°C ~ 185°F) |
| Relative Humidity | 5% ~ 95% (Non-condensing) |
| Dimensions | 235mm x 350mm x 80mm (W x H x D) |
| Weight (g) | 4.3 Kg |



Hardware Specification

AP-EVP100 Emergency IP Video Phone

Front Side



Hardware Specification

AP-EVP100 Emergency IP Video Phone

Bottom Side



Outlet for LAN cable





AP-EVP95 Emergency Call IP Phone

Product Overview

AP-EVP95 Emergency Call HD IP Video Phone

- Emergency Call HD IP Video Phone Solution
- High-performance HD Video, Audio and Voice Service
- SIP/H.323 VoIP Signaling Stack Embedded
- Autofocus HD Video Camera Module
- Day & Night Emergency Call Support
- High-performance Video/Voice Codec Support
 - H.264/MPEG4/H.263, G.711, etc
- One(1) 10/100Mbps Fast Ethernet
- PoE(Power over Ethernet) Support
- High Quality Speaker Phone Features
- Powerful Acoustic Echo Canceller Chip Embedded
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Firmware Upgradeable Architecture
- VVoIP Solution with Outstanding Network Service Capability
- Steel Chassis

Hardware Specification

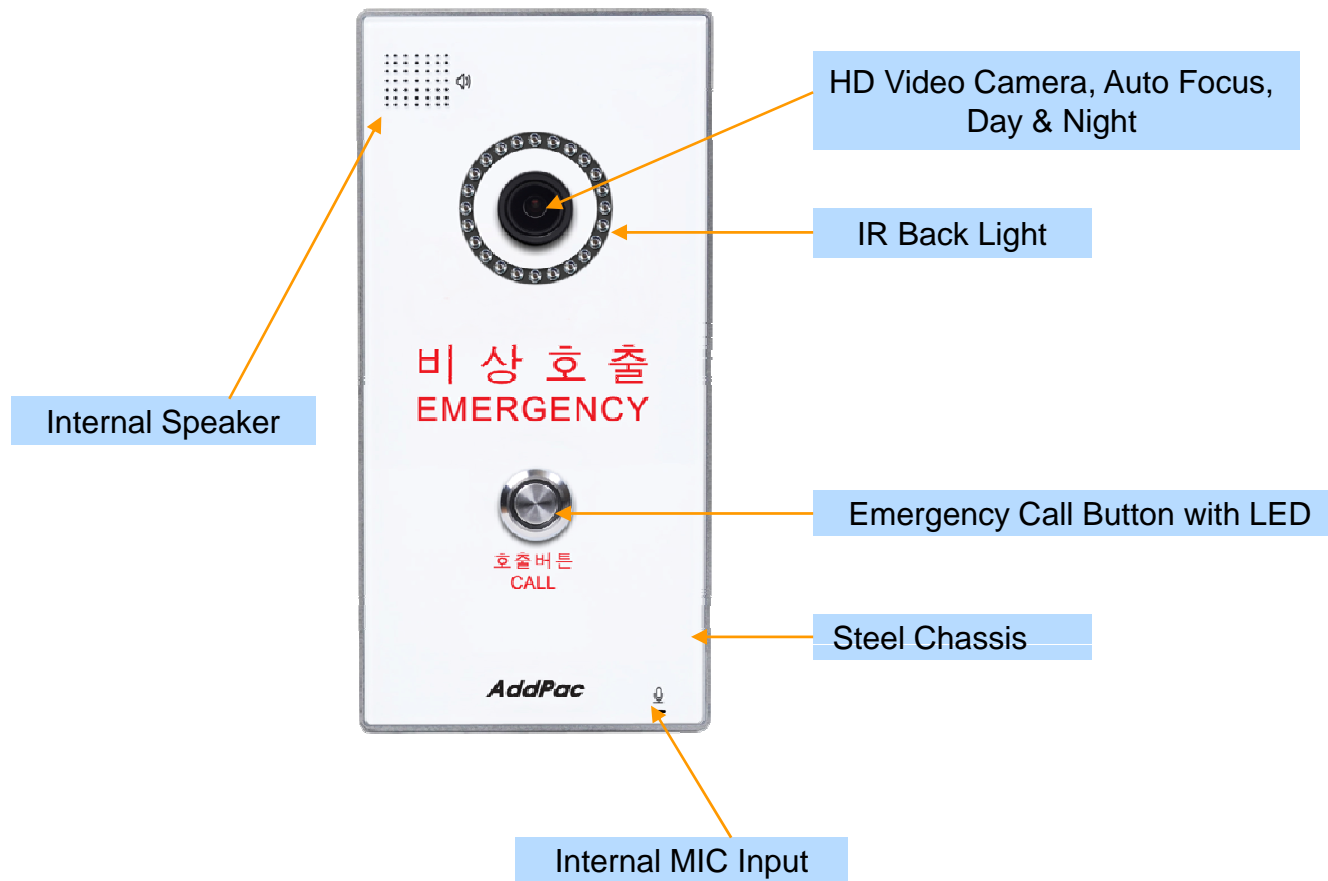
AP-EVP95 Emergency Call HD IP Video Phone

- RISC+DSP Microprocessor Computing Power (Dual Processor Architecture)
- HD Video Camera Interface with IR back light
- Autofocus, Day & Night Video Camera
- Emergency Call Button & LAMP
- Audio and Voice Interface
 - Internal MIC
 - Internal Speaker
- Alarm & Relay Out Interface (door open, etc)
- RS232/RS485 Interface
- Network Interface
 - One(1) 10/100Mbps Fast Ethernet
- Power Supply
 - Power over Ethernet
 - External Power Supply Adaptor
- Die-Casting Steel Chassis

Hardware Specification

AP-EVP95 Emergency Call HD IP Video Phone

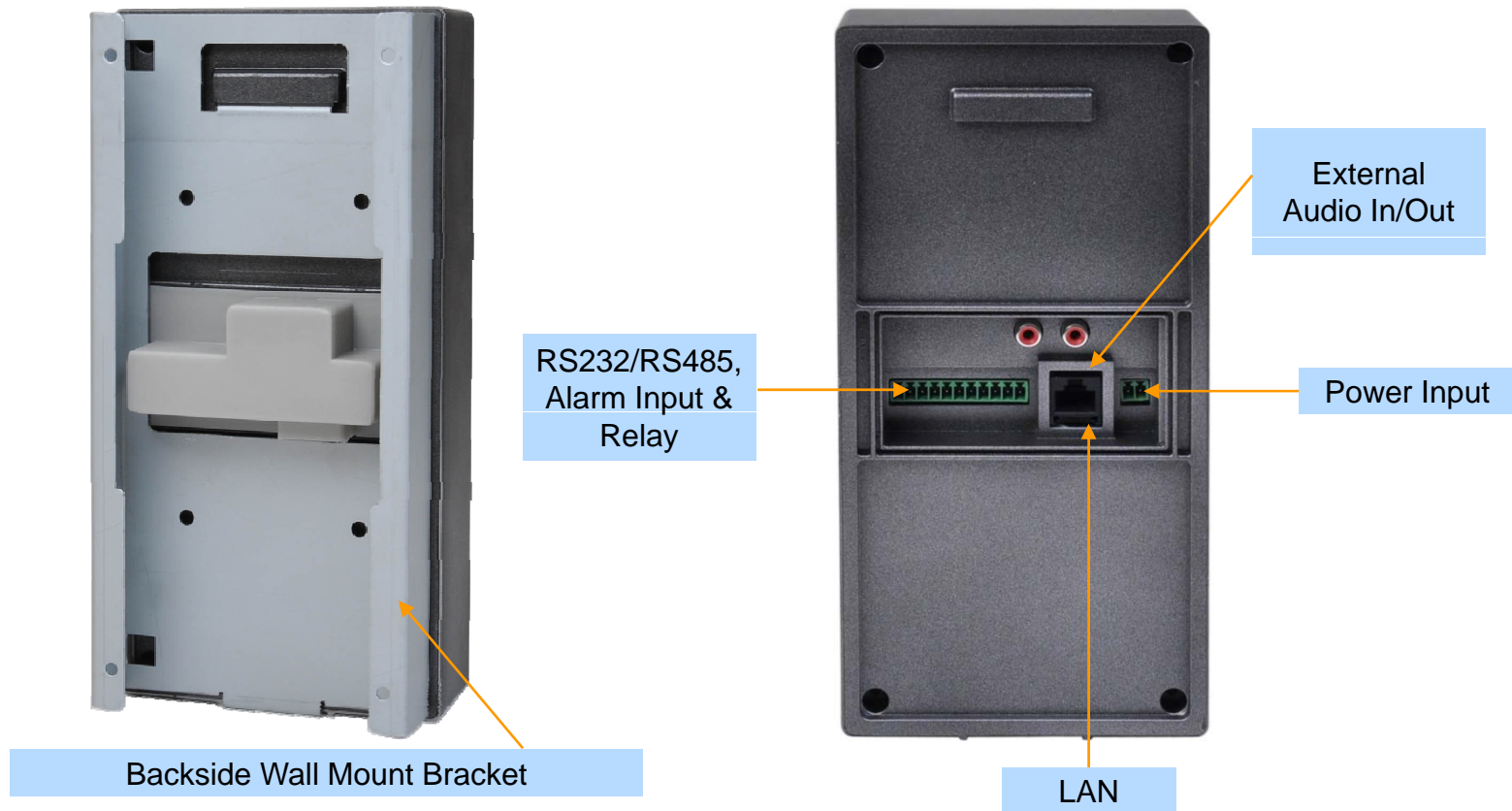
Front Side



Hardware Specification

AP-EVP95 Emergency Call HD IP Video Phone

Back Side



Hardware Specification

AP-EVP95 Emergency Call HD IP Video Phone

Power Supply

Terminal Block



12V 1A Power Adaptor

Example





AP-EVP90

Emergency Call IP Video Phone

Product Overview

AP-EVP90 Emergency IP Video Phone

- Emergency IP Video Phone Solution for Outdoor Application
- High-performance Video, Audio and Voice Service
- SIP VoIP Signaling Stack Embedded
- High-performance Video/Voice Codec Support
 - H.264/MPEG4/H.263, G.711, etc
- One(1) 10/100Mbps Fast Ethernet
- PoE(Power over Ethernet) Support
- High Quality Speaker Phone Features
- Powerful Acoustic Echo Canceller Chip Embedded
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Firmware Upgradeable Architecture
- VVoIP Solution with Outstanding Network Service Capability
- Audio/Video Privacy Protection
- Steel Chassis

Hardware Specification

AP-EVP90 Emergency IP Video Phone

- RISC+DSP Microprocessor Computing Power (Dual Processor Architecture)
- Video Camera Interface
- Emergency Call Button & LAMP
- Audio and Voice Interface
 - Internal MIC
 - Internal Speaker
- Alarm & Relay Out Interface (door open, etc)
- RS232/RS485 Interface
- Network Interface
 - One(1) 10/100Mbps Fast Ethernet
- Power Supply
 - Power over Ethernet
 - External Power Supply Adaptor
- Die-Casting Steel Chassis



Hardware Specification

AP-EVP90 Emergency IP Video Phone

Front Side



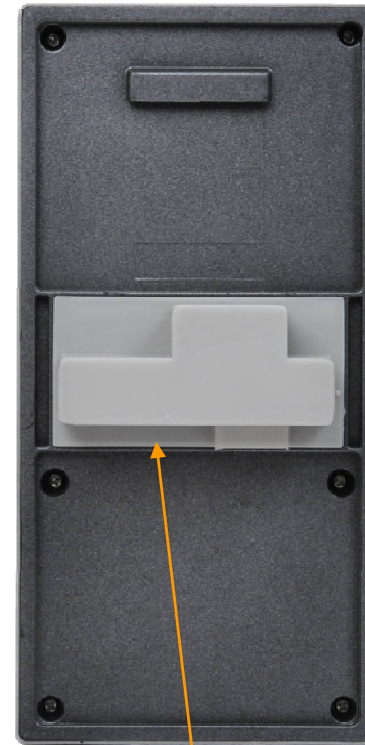
Hardware Specification

AP-EVP90 Emergency IP Video Phone

Back Side



Backside Wall Mount Bracket



Rubber Cover for Water Protect

Hardware Specification

AP-EVP90 Emergency IP Video Phone

Power Supply

Terminal Block



12V 1A Power Adaptor

Example





AP-EVP70

Emergency Call IP Video Phone

Product Overview

AP-EVP70 Emergency Call IP Video Phone

- Emergency Call IP Video Phone Solution
- High-performance Video, Audio and Voice Service
- SIP VoIP Signaling Stack Embedded
- High-performance Video/Voice Codec Support
 - H.264/MPEG4/H.263, G.711, etc
- One(1) 10/100Mbps Fast Ethernet
- PoE(Power over Ethernet) Support
- High Quality Speaker Phone Features
- Powerful Acoustic Echo Canceller Chip Embedded
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Firmware Upgradeable Architecture
- VVoIP Solution with Outstanding Network Service Capability
- Audio/Video Privacy Protection
- Steel Chassis

Hardware Specification

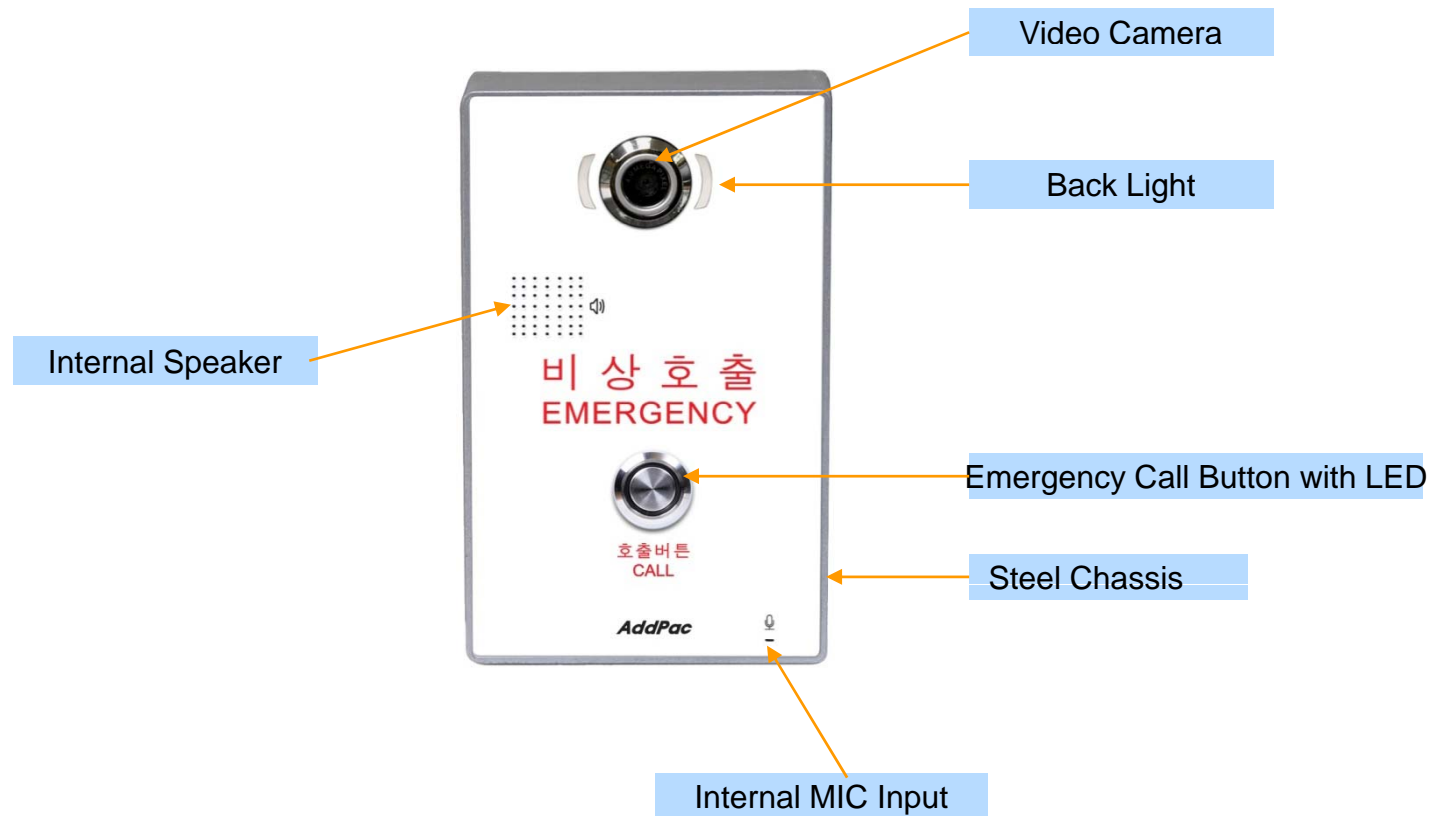
AP-EVP70 Emergency Call IP Video Phone

- RISC+DSP Microprocessor Computing Power (Dual Processor Architecture)
- Video Camera Interface
- Emergency Call Button & LAMP
- Audio and Voice Interface
 - Internal MIC
 - Internal Speaker
- Alarm & Relay Out Interface (door open, etc)
- RS232/RS485 Interface
- Network Interface
 - One(1) 10/100Mbps Fast Ethernet
- Power Supply
 - Power over Ethernet
 - External Power Supply Adaptor
- Die-Casting Steel Chassis

Hardware Specification

AP-EVP70 Emergency Call IP Video Phone

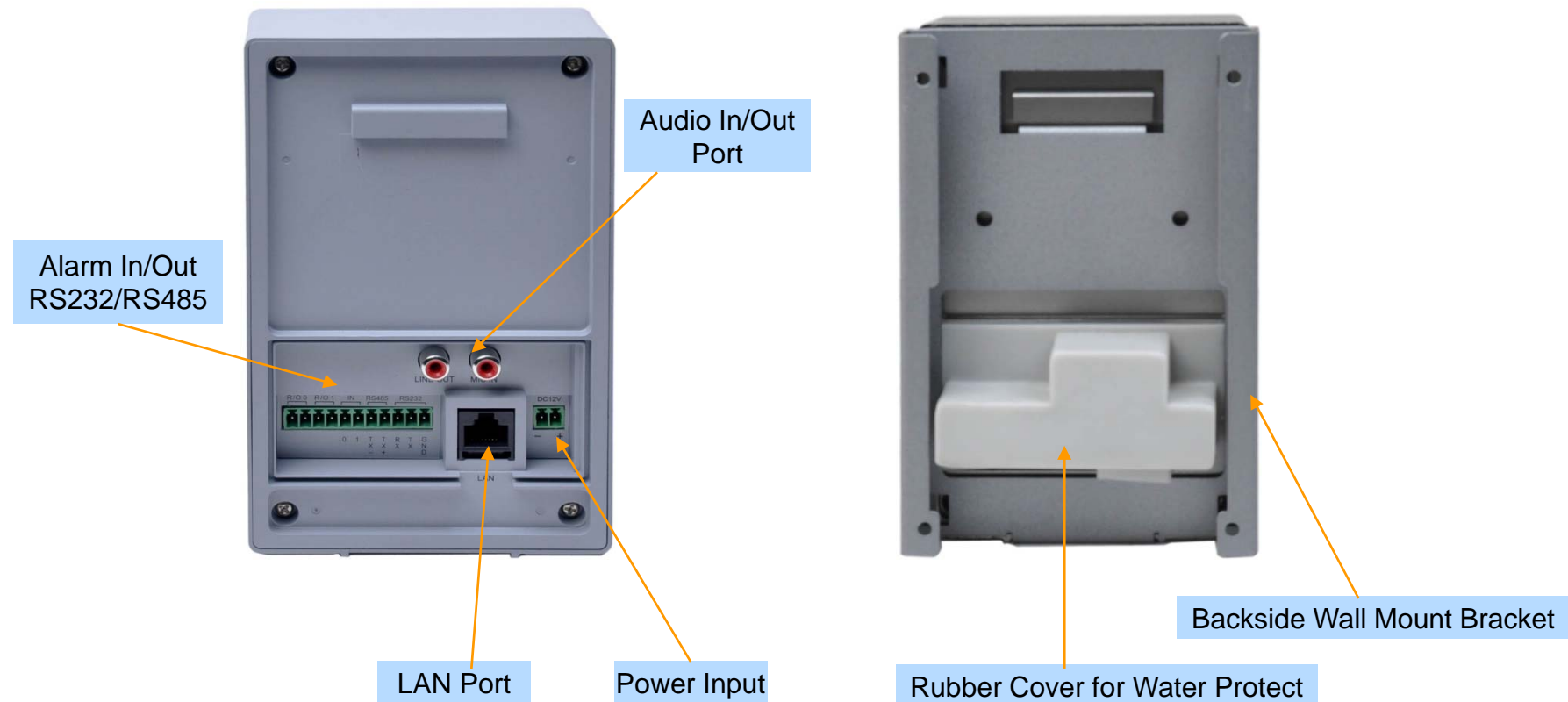
Front Side



Hardware Specification

AP-EVP70 Emergency Call IP Video Phone

Back Side



Hardware Specification

AP-EVP70 Emergency Call IP Video Phone

Power Supply

Terminal Block



12V 1A Power Adaptor

Example



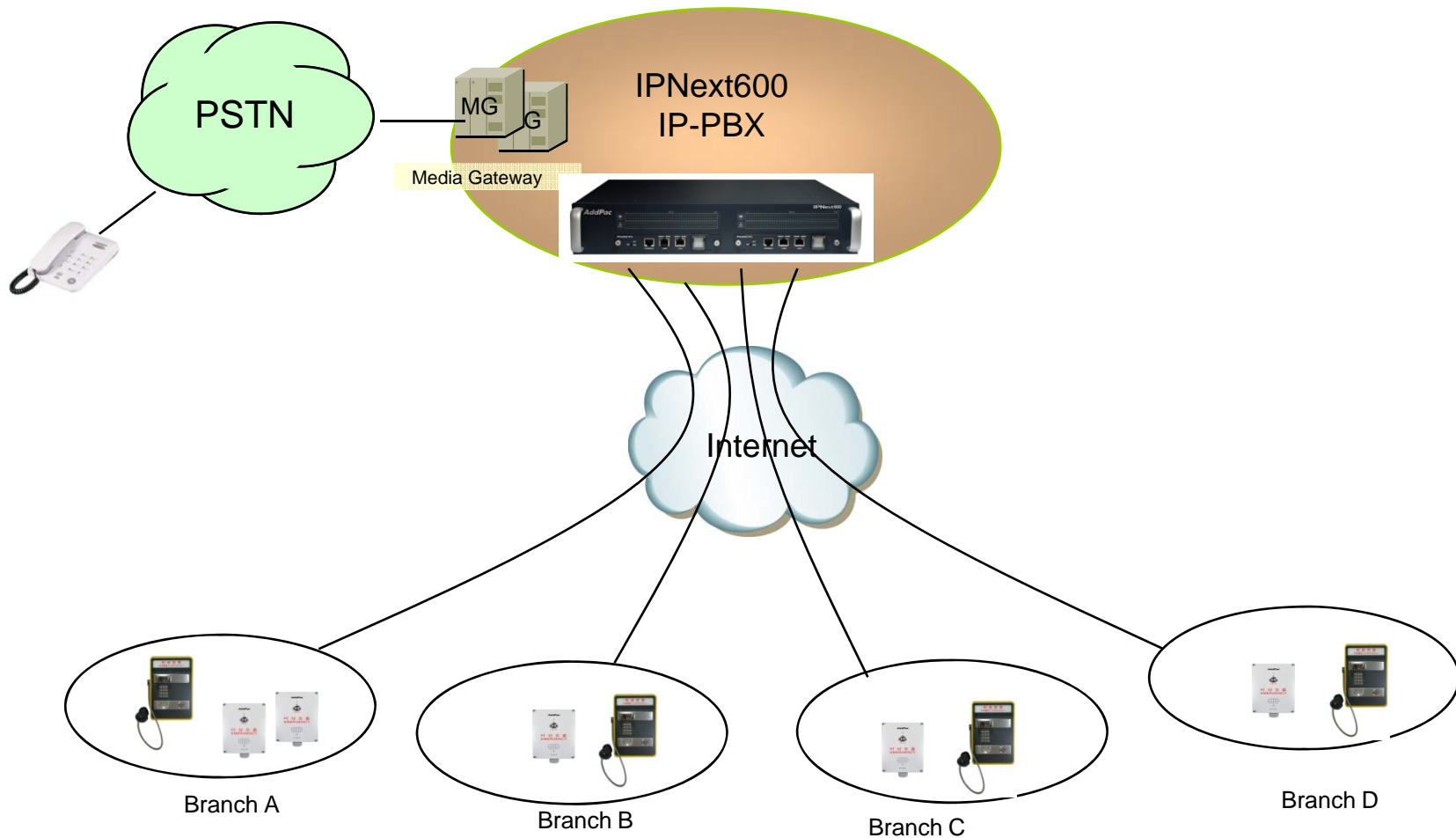


IP-PBX Solution for Emergency Call Center



IPNext600 IP-PBX Solution for Call Center

Network Diagram



Product Overview

IPNext600 Next Generation IP-PBX System

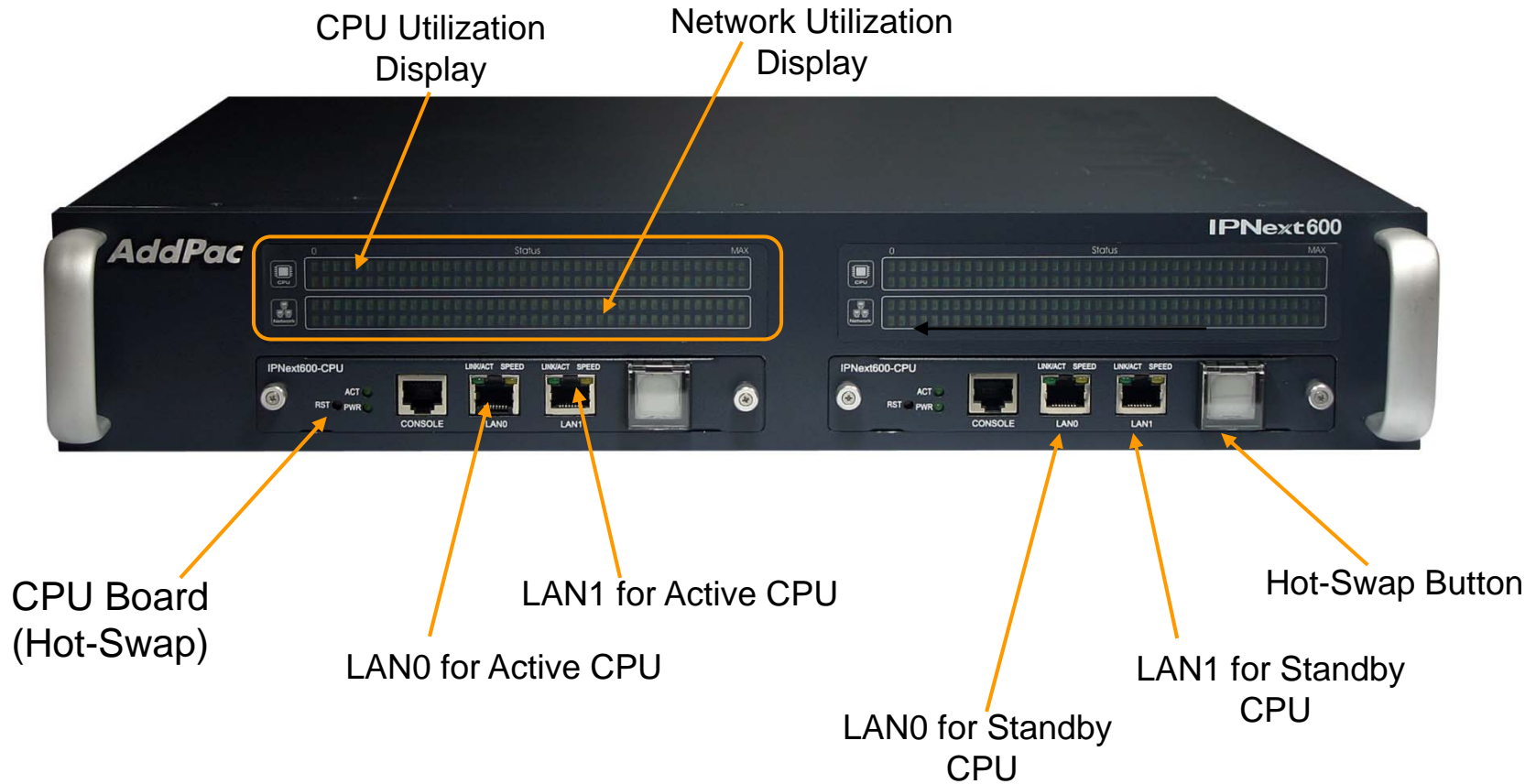
- SIP Application Server, Proxy, Registrar and Location Server
- Multiple ITSP Trunk with SIP & H.323 Accounts Support
- Dual System Redundancy Architecture
 - Two(2) Fast Ethernet Interface / System
- High Performance RISC Architecture
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- 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

Hardware Specification

IPNext600 Next Generation IP-PBX System

RISC
CPU

IPNext 600 Front Side



Hardware Specification

IPNext600 Next Generation IP-PBX System






IPNext 600 Back Side





IP Video Phone Solution for Emergency Call Center

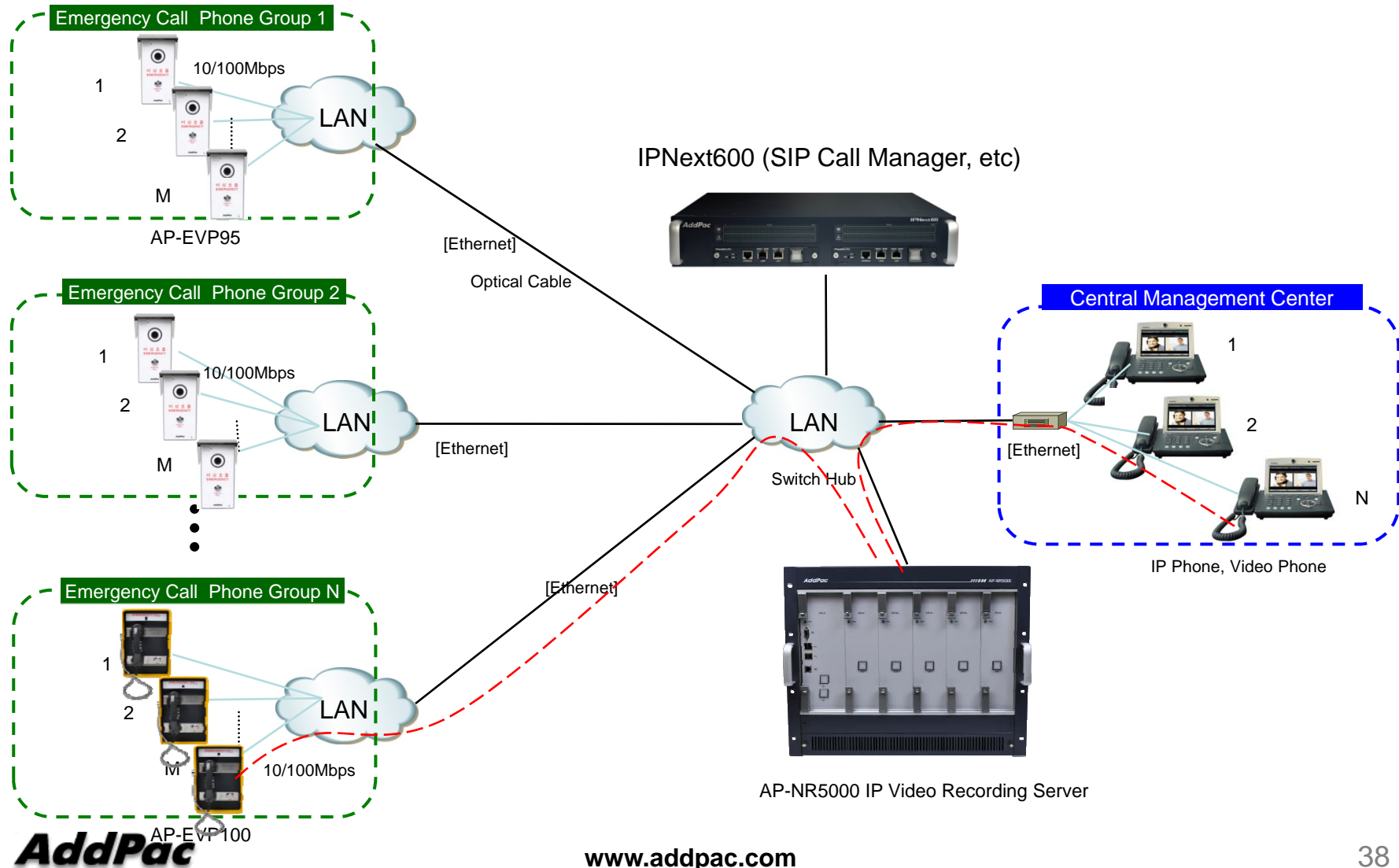
IP Video Phone Comparison Table

| | AP-VP700 | AP-VP280 | AP-VP230N |
|------------------|---|---|---|
| |  |  |  |
| LCD Size | 12.1 Inch Touch Screen | 7 Inch Touch Screen | 5 Inch Touch Screen |
| Camera | CMOS | CMOS | CMOS |
| Video Codec | H.263 MPEG4 H.264 | H.263 MPEG4 H.264 | H.263 MPEG4 H.264 |
| Signaling | H.323/SIP | H.323/SIP | H.323/SIP |
| Camera Sensor | HD | SD | SD |
| Video Resolution | HD | SD | SD |
| LAN Port | 2 | 2 | 2 |
| PoE | N/A | Support | Support |

Video Recording Server for Emergency Call Center



Network Diagram for Video Recording Service



Product Overview

AP-NR5000 Network Voice Recoding Server

- IP based Network Video Recording Server
- Linux Operating System
- Powerful Management and User Friendly Features
- High-performance Video Recoding Service
- IP based Video Terminal Interworking Support
- Legacy Video Player Support (AVI format, etc)
- Firmware Upgradeable Architecture
- One(1) 10/100/1000Mbps Gigabit Ethernet Interface
- Up to Five(5) 3.5Inch SATA Hard Disk Interface Support
- USB Interface Support

Hardware Specification

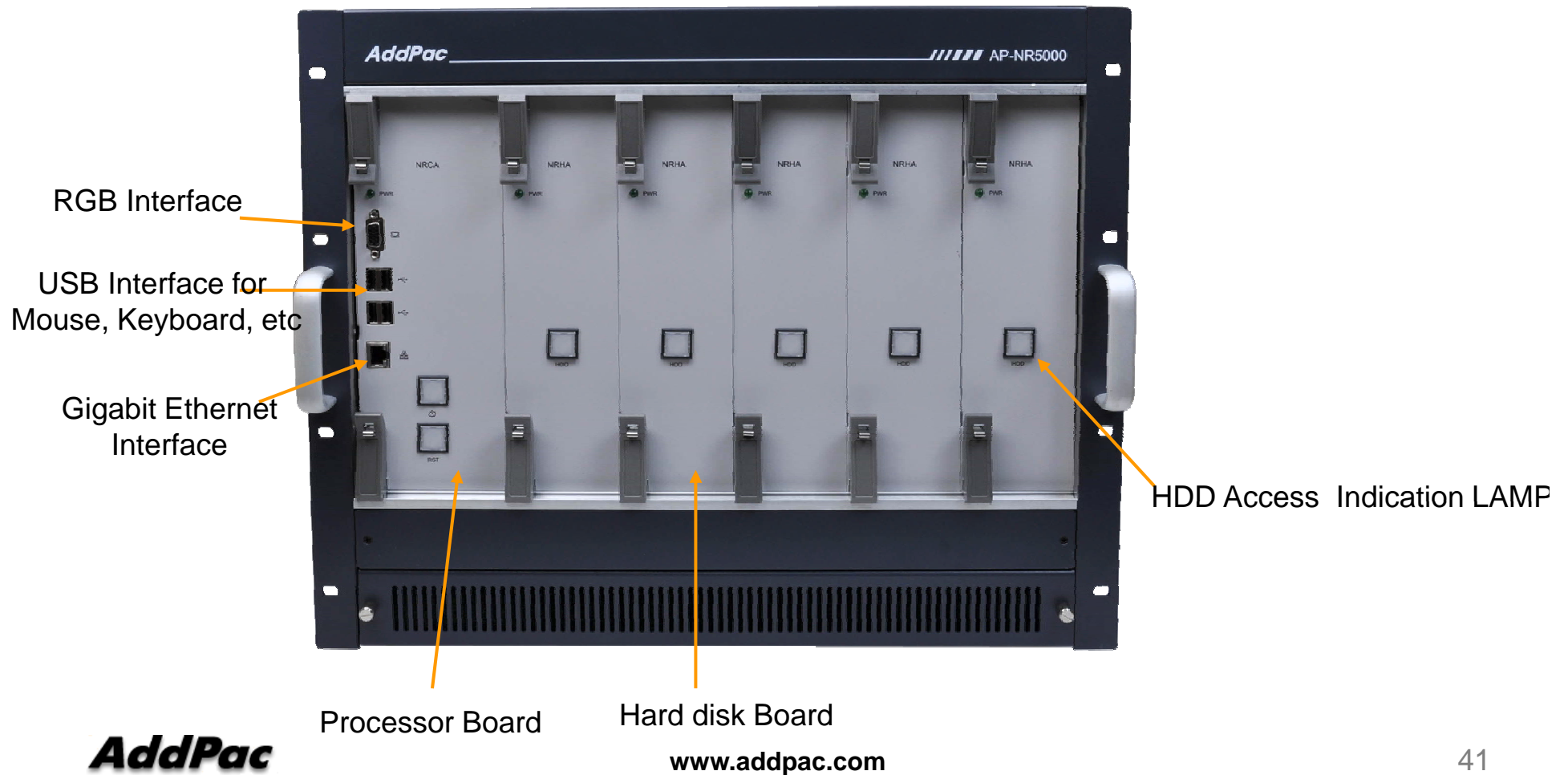
AP-N5000 Network Voice Recoding Server

- High Performance Computing Power
- Main Processor Board
 - Network Interface
 - One(1) 10/100/1000Mbps Gigabit Ethernet
 - Video Output Interface
 - RGB Video Output
 - USB 2.0 Interfaces for Mouse, Keyboard, etc
- Hard Disk Board
 - Module Type Design
 - Up Five(5) Hard Disk Slots
 - 10~20 Tera HDD Capacity
- Power Supply
 - Dual Power Supply for Power Redundancy
 - Module Type Power Supply

Hardware Specification

AP-NR5000 Network Voice Recording Server

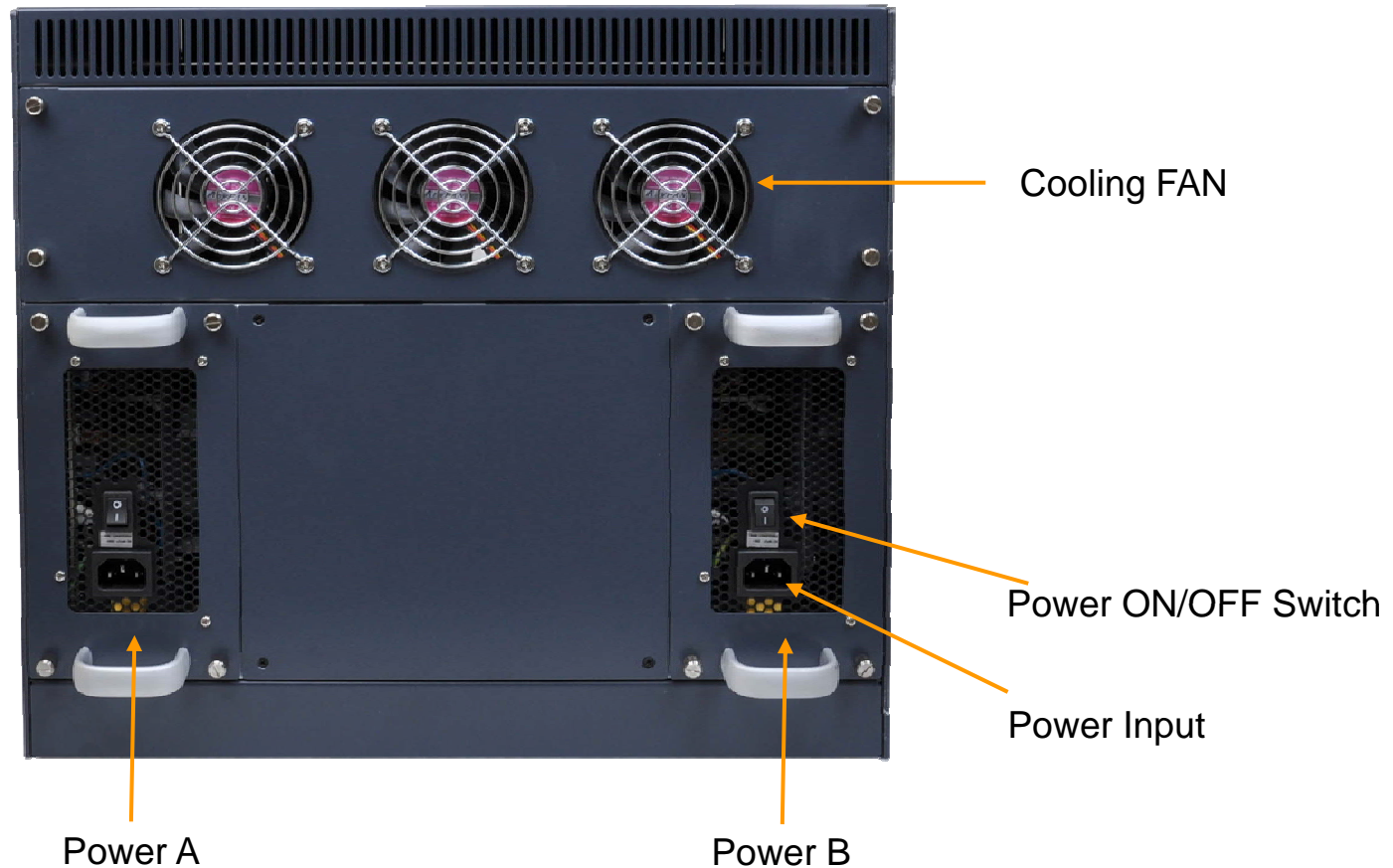
AP-NR5000 Front Side



Hardware Specification

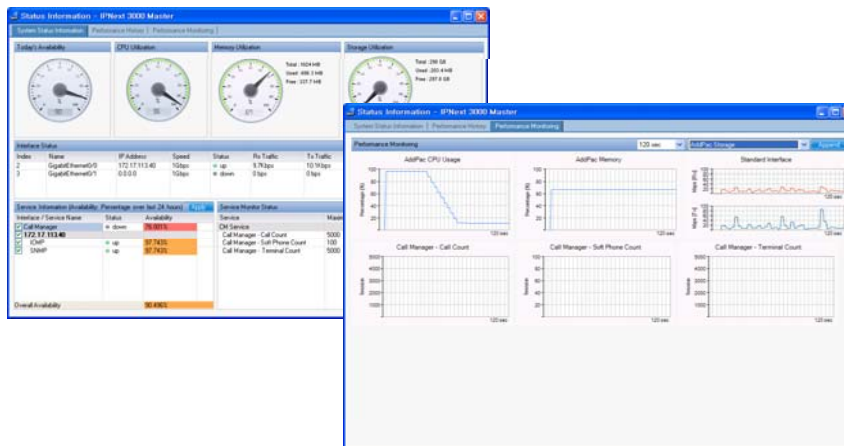
AP-NR5000 Network Voice Recoding Server

AP-NR5000 Back Side



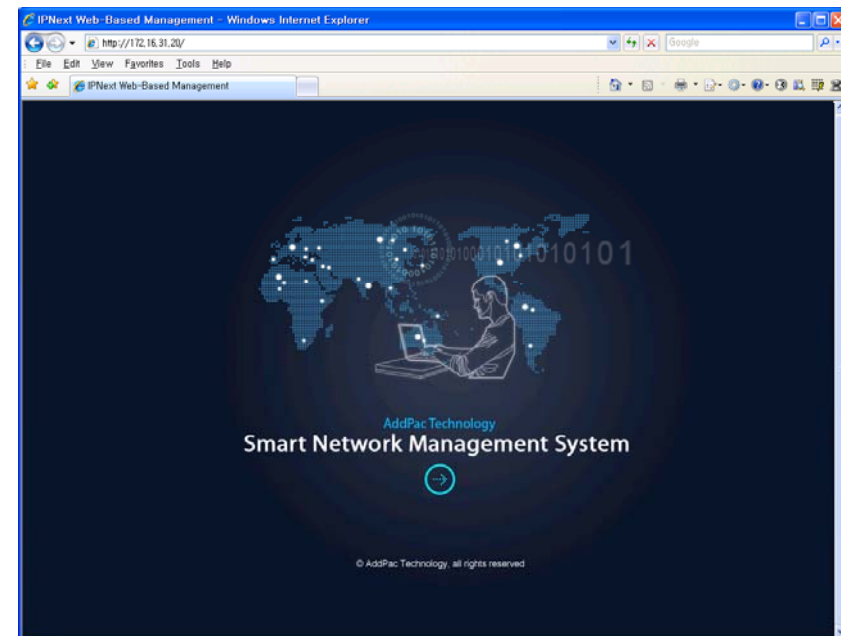
Smart NMS

Smart Network Management System for Video Phone



Contents

- System Requirement
- Smart NMS Networking Diagram
- Web-based Management
- Network Resource Management
- Device Fault Management
- Device Fault History Management
- Device Status Information
- Notification Management
- Fault Statistics
- Model & Service Management



System Requirement

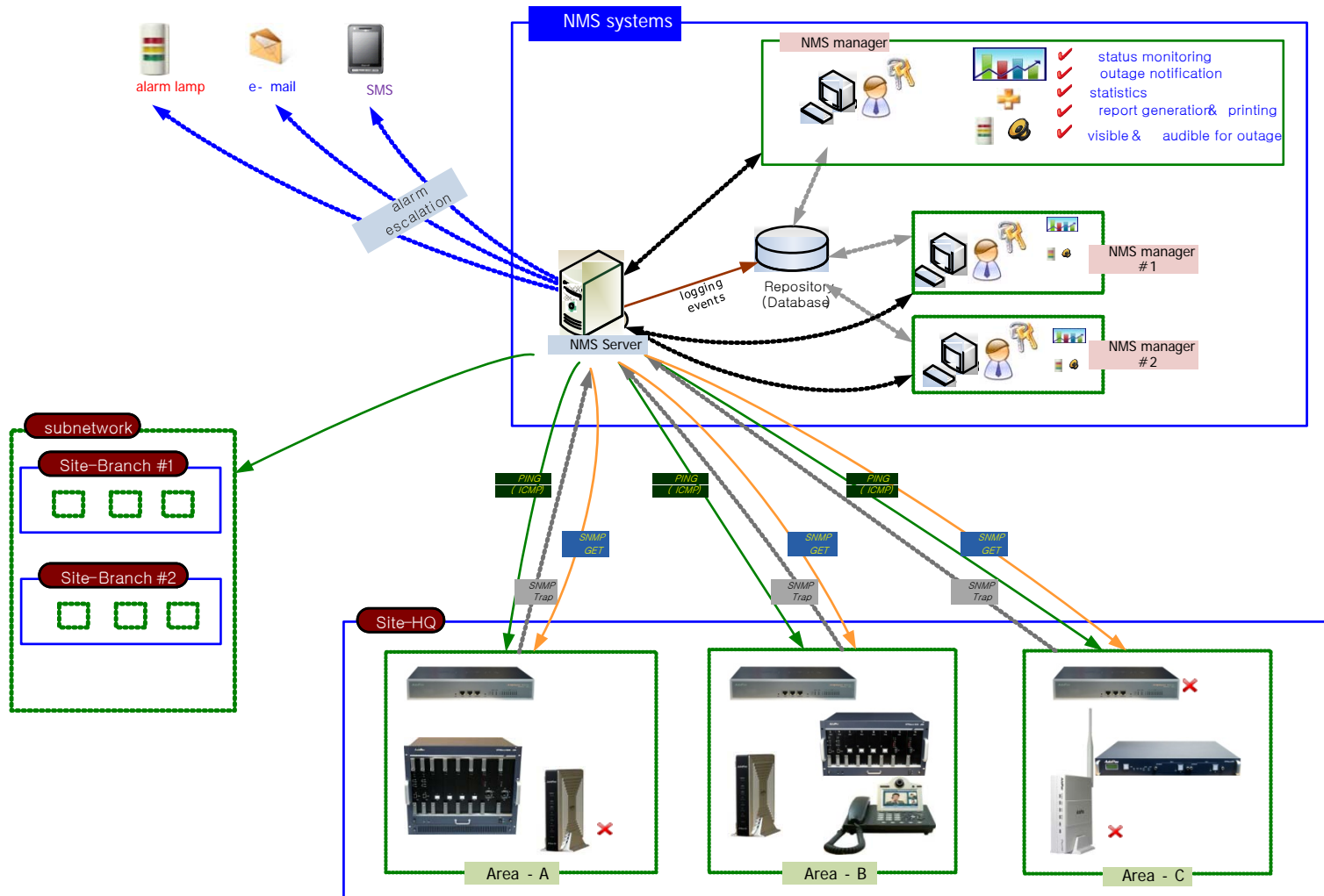
NMS Server

- OS : RHEL (Redhat Enterprise Linux) 5.0 or higher
- CPU : Quad-Core 2.0 GHz / 1333MHz FSB 2x4 MB cache
- Physical Memory : 4 GB
- HDD : 300 G
- JRE (Java Runtime Environment) 1.5.1 or Higher
- Database : PostgreSQL 8.1.11

NMS Client

- Windows XP, Vista, Windows Server 2000/2003
- Microsoft Internet Explorer 6.0 or higher

NMS Networking Diagram



Ex: Device Fault Management

Smart Network Management System - Windows Internet Explorer

http://172.16.31.20/smartnms.htm

NMS Account Configuration Monitoring Notification Fault Statistics View Help

Current Outage Devices [12] Site

Service Outages Device Monitoring - <All>

View Mode Large Small Refresh Import

display message icon when the device have a notification for event

device status matrix with several severity such as critical, major, minor

* severity color

- 1) red : critical
- 2) orange : major
- 3) light blue : normal

| Name | Service... | Availability |
|------------------|------------|--------------|
| Branch AQ | | |
| NMS Camera | 6 of 12 | 48.994 % |
| NMS_IP_PBX... | 3 of 3 | 0.000 % |
| Branch GX | | |
| 00_IVR_server | 3 of 3 | 0.000 % |
| 00_IVR_slave... | 3 of 3 | 0.000 % |
| 00_NR_server | 1 of 2 | 98.015 % |
| 00_PS_server | 3 of 3 | 0.000 % |
| 00_PS_slave... | 2 of 3 | 32.703 % |
| IPNext 3000 ... | 1 of 3 | 90.536 % |
| IPNext 3000 S... | 1 of 3 | 90.584 % |
| UMS slave | 3 of 3 | 0.000 % |
| UMS server(o... | 3 of 3 | 0.000 % |
| Subnetwork #2 | | |
| Center | | |
| NMS_SOHO_... | 2 of 2 | 92.939 % |

Total Monitoring Devices : 34

| ACK ID | Send Time | Site | Device Name | IP Address | Service | Message |
|--------|-----------------------|-----------------------|--------------------|---------------|--------------|--|
| 9525 | 4/10/2009 5:21:06 PM | /AddPac/Branch GX | 00_NR_server | 172.17.111.21 | SNMP | 인터페이스 172.17.111.21 (172.17.111.21)의 장비명 (00_NR_server)의 서비스 SNMP가 2009년 4월 10일 금요일 오후 5시 21분 06초에 실패함. |
| 9502 | 4/10/2009 3:34:29 PM | /Subnetwork #2/Center | NMS_SOHO_PBX | | | device NMS_SOHO_PBX, all services are down |
| 9495 | 4/10/2009 11:37:12 AM | /AddPac/Branch GX | IPNext 3000 Slave | 172.17.113.41 | Call Manager | interface 172.17.113.41 (172.17.113.41) device (IPNext 3000 Slave) service Call Manager 2009-4-10 11:37:12 failed |
| 9494 | 4/10/2009 11:37:12 AM | /AddPac/Branch GX | IPNext 3000 Master | 172.17.113.40 | Call Manager | interface 172.17.113.40 (172.17.113.40) device (IPNext 3000 Master) service Call Manager 2009-4-10 11:37:12 failed |
| 9418 | 4/9/2009 2:20:01 PM | /AddPac/Branch GX | 00_IVR_server | | | device 00_IVR_server all services are down |

Your Outstanding Notices [17] All Outstanding Notices [17]

4/10/2009 5:16:30 PM 172.16.31.20:5101 admin Version 1.2.3384

Emergency Call IP Phone Series

Thank you!

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