



AP-SVG3000

8-Port STT VoIP Gateway

High Performance 8 Port STT (Speech-to-Text) VoIP Gateway Solution

Product Overview



AddPac

AddPac Technology

Sales and Marketing

www.addpac.com

Contents

- Product Overview
- Hardware Specification
- APOS Technology
- VoIP (Voice over IP) service
- Advanced QoS Features
- Network Protocols
- Network Management
- Security Management
- STT VoIP Network Diagram
- Ordering Information

Product Overview

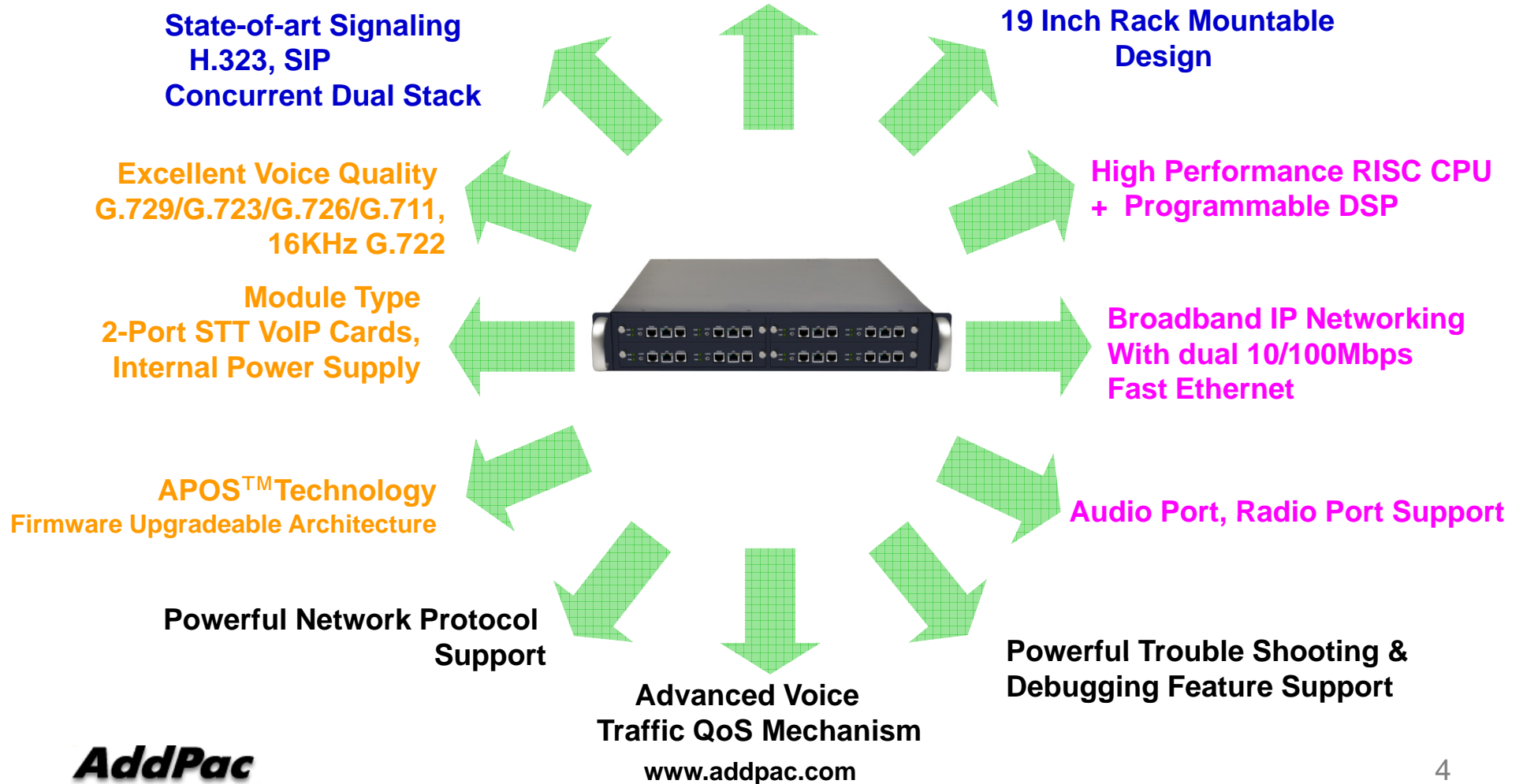
AP-SVG3000 8 Port STT VoIP Gateway

- H.323/SIP Dual Concurrent Stack Embedded
- High Performance RISC & Programmable DSP Architecture
- Various STT Audio Interface Module(16KHz G.722, etc) Support
- G.722(16KHz) beside 8KHzG.711/G.726, etc VoIP Codec Support for Backward Compatibility
- Independent Octal (8) STT VoIP Gateway Module
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Firmware Upgradeable Architecture
- SNMS (Smart Network Management System) for Large Scale Deployment
- Advanced Voice QoS Mechanism
- 19 Inch Rack Mountable Design with Internal Power Supply
- Four(4) VoIP Module Slot

Product Highlights

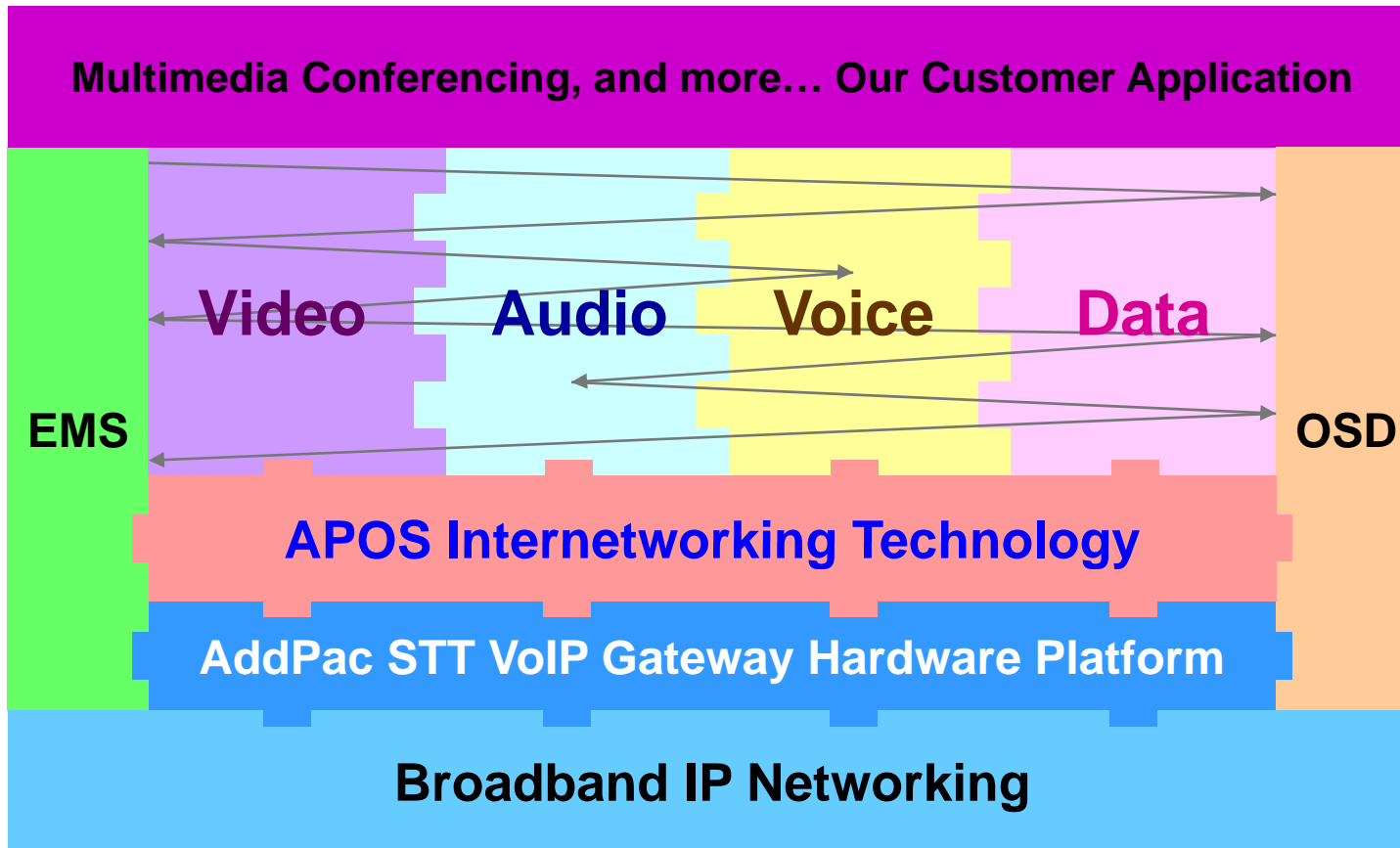
AP-SVG3000 8 Port STT VoIP Gateway

High Performance STT VoIP Gateway



APOS Technology

AP-SVG3000 8 Port STT VoIP Gateway



- APOS : AddPac Internetworking Operating System
- OSD : On- Screen Display
- EMS : Element Management System

Hardware Specification

AP-SVG3000 8 Port STT VoIP Gateway

RISC
CPU

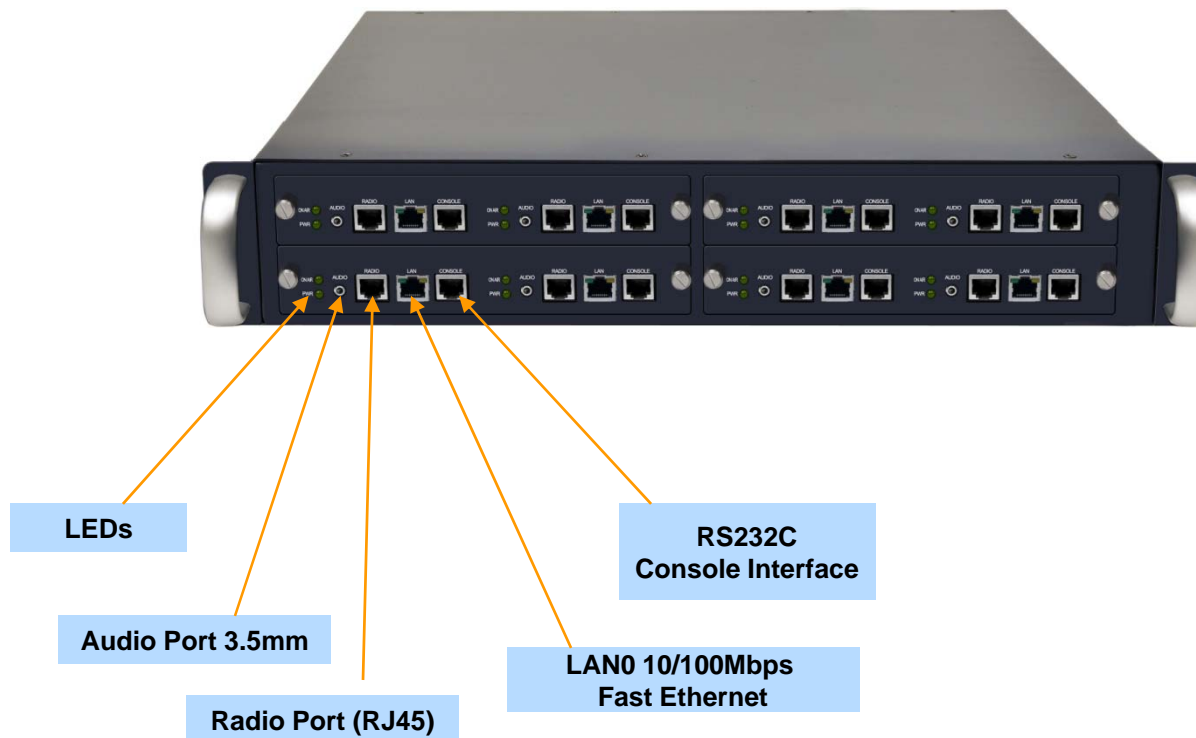
High-end
DSP

- RISC Microprocessor Computing Power
- Up to 8 Port STT VoIP Gateway
- Four VoIP Module Slots
 - 2-Port STT Audio Module Card (Audio (3.5mm), Radio(RJ45))
 - One(1) 10/100Mbps Fast Ethernet (RJ45)/ Port
 - One(1) RS232C Console Interface (RJ45)/Port
 - Status LEDs/Port
- Internal Power Supply

Hardware Specification

AP-SVG3000 8 Port STT VoIP Gateway

Front Side



Hardware Specification

AP-SVG3000 8 Port STT VoIP Gateway

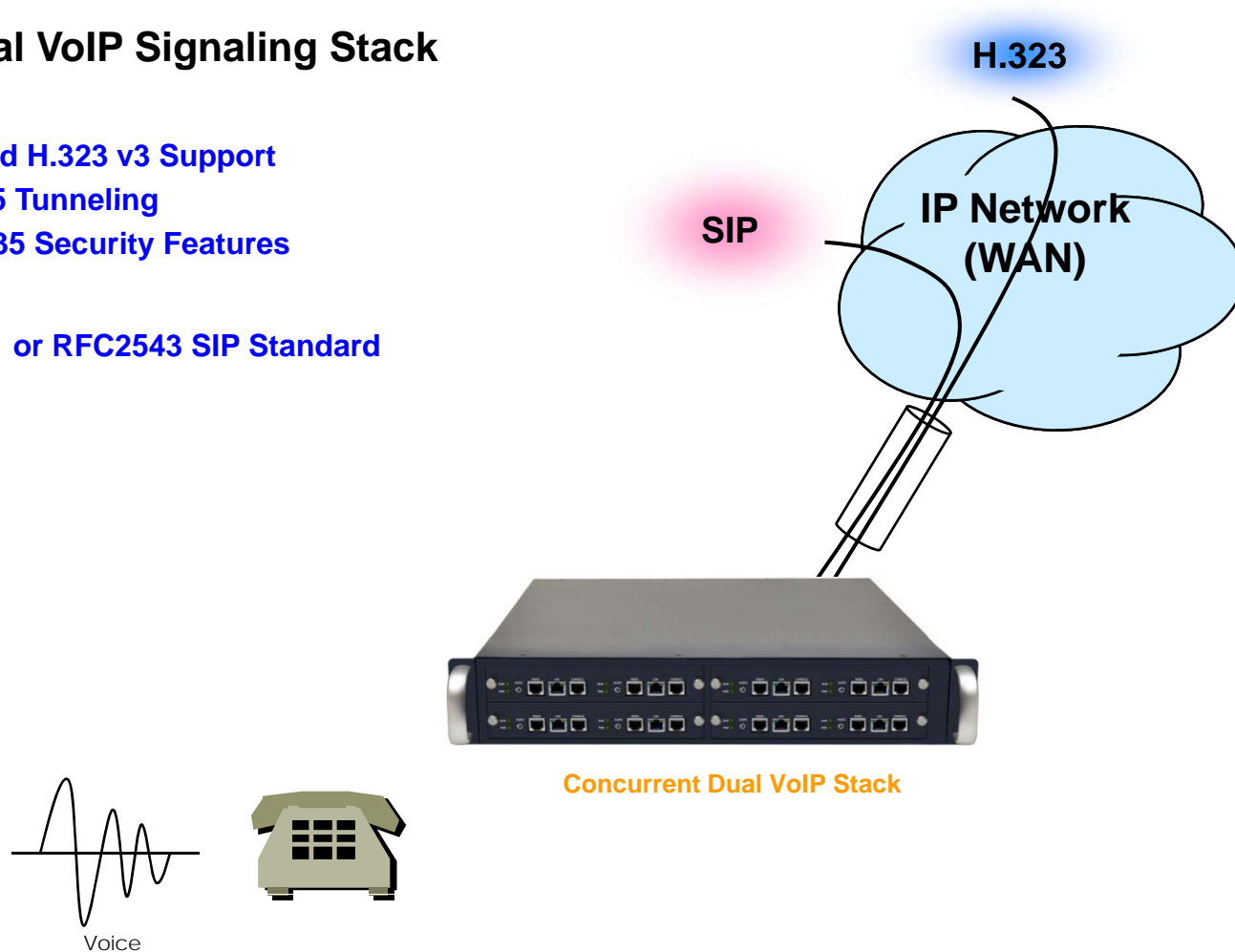
Back Side



VoIP (Voice over IP) Service

AP-SVG3000 8 Port STT VoIP Gateway

- **H.323, SIP Dual VoIP Signaling Stack**
- **H.323**
 - ITU-T Standard H.323 v3 Support
 - Support H.245 Tunneling
 - Including H.235 Security Features
- **SIP**
 - IETF RFC3261 or RFC2543 SIP Standard



VoIP (Voice over IP) Service

AP-SVG3000 8 Port STT VoIP Gateway

- **H.323**

- Fast connect, normal connect support
- H.245 tunneling support
- Q.931 response message setting for inbound VoIP calls
- H.245 logical channel open timing selection function
- Start H.245 procedure support
- DTMF / Hook flash relay with H.245 alphanumeric / signal
- Secondary gatekeeper support
- Gatekeeper assignment according to the domain name
- Gatekeeper discovery with multicast
- Lightweight RRQ support
- Signaling TCP port assignment
- Resource threshold setting with RAI
- H.235 clear-token, crypto-token support
- canMapAlias support
- Technical prefix (supported prefix) support
- Public IP assignment in NAT environment

- **SIP**

- Gateway-based / Endpoint-based registration support
- Secondary proxy-server assignment function
- SIP signaling port change function
- SIP proxy server assignment according to the domain name
- T.38 real-time fax relay support
- DTMF relay support with RFC2833 / OPTION message
- Re-INVITE support

VoIP (Voice over IP) Service

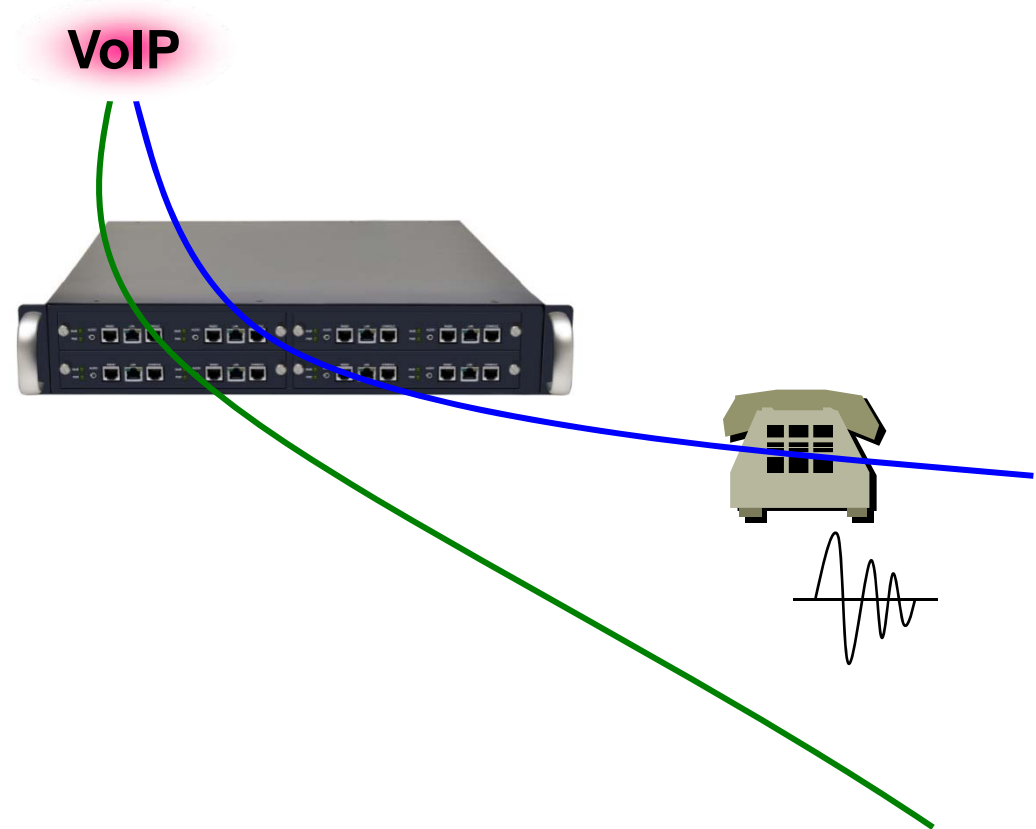
AP-SVG2500 8 Port STT VoIP Gateway

- **Voice Codec**

- G.722 16KHz
- G.711 A-Law, G.711 U-Law
- G.726 r16, G.726 r32
- VAD (Voice Activity Detection) function support
- DTMF relay support (H.323, SIP) based on RFC2833

- **RTP**

- Redundant RTP packet transmission in case of severe packet loss
- Dynamic jitter buffer management and RTP packet jitter and loss compensation with heuristic & DSP error concealment
- Static jitter buffer setting support
- Voice frame per RTP packet number control for each codec
- In-band ring-back tone support
- Virtual ring-back tone support
- Tone parameter change support



VoIP (Voice over IP) Service

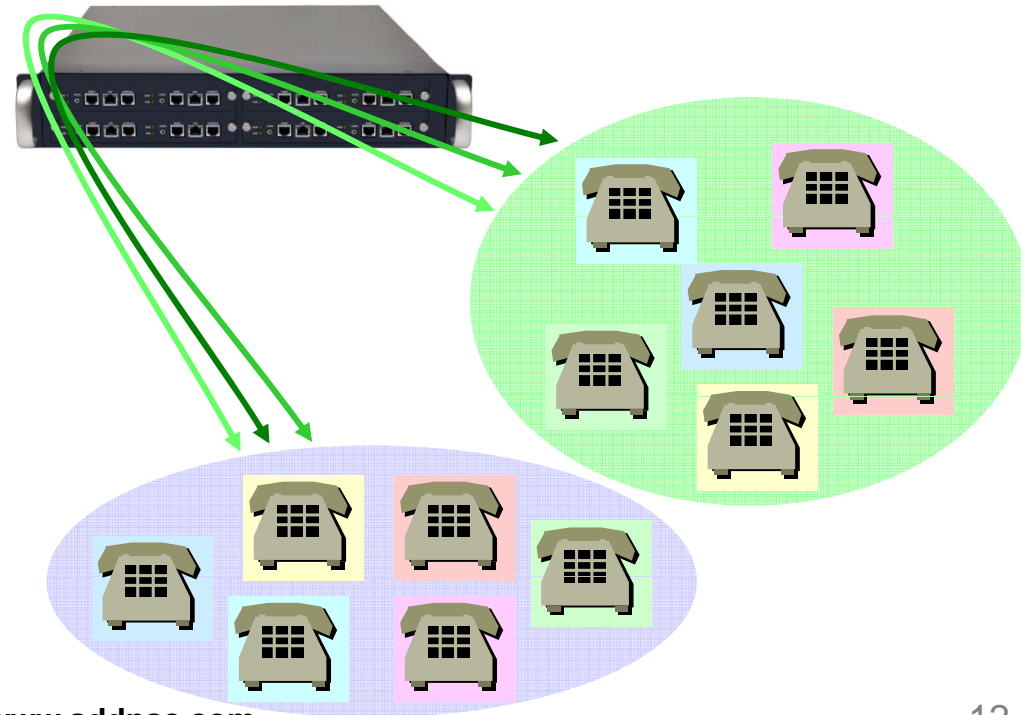
AP-SVG3000 8 Port STT VoIP Gateway

• VoIP Call Controls

- Hot line connection function with PLAR (Private Line Auto Ring Down)
- Leased line emulation function
- Connection monitoring function
- Fault tolerant with Redundancy and Call Distribution among Gateways for load balancing
- Call attempt with IP address
- H.323, SIP, MGCP inbound call connection for each voice port
- Multiple E.164 setting for one voice port
- One E.164 or digit pattern can be assigned to more than one voice port
- Hunting with Longest match/ priority/ sequence/ random
- One stage call setup by Digit forwarding
- Call barring with specific digit patterns
- Calling and called number conversion for PSTN outbound calls
- PSTN rerouting in case of VoIP call attempt failure

• VoIP Call Controls (cont.)

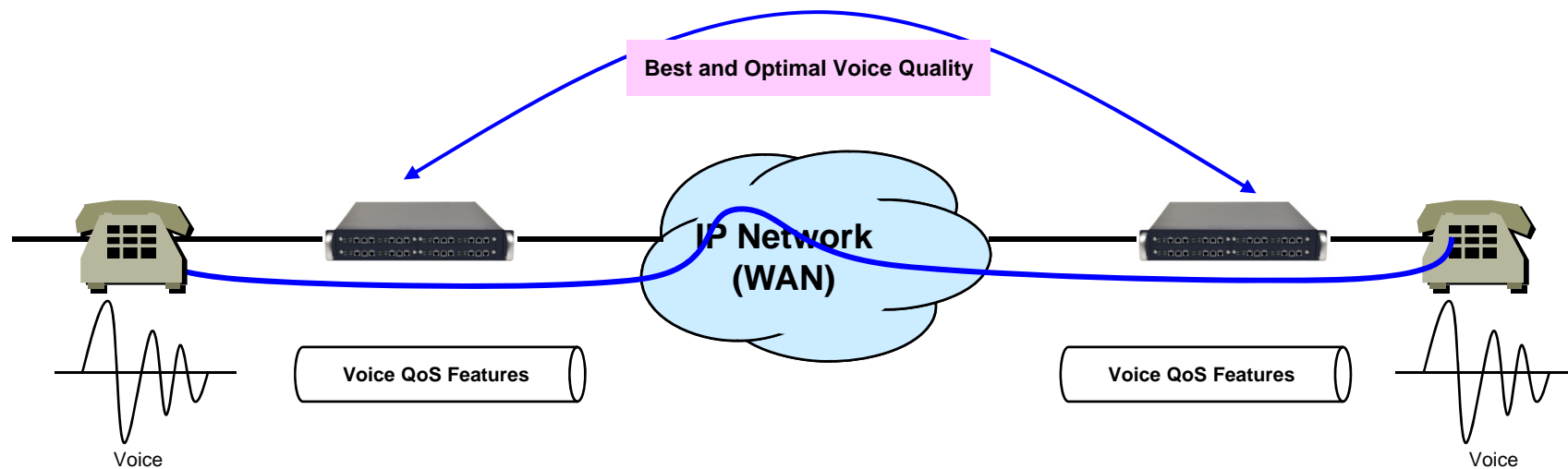
- Call transfer for internal calls
- Call pickup for internal calls
- Calling and called number conversion for VoIP outbound calls
- Calling and called number conversion for VoIP inbound calls
- Fax broadcasting call control



Advanced QoS Features

AP-SVG3000 8 Port STT VoIP Gateway

- Enhances **Transmit** Voice QoS Features
 - Voice Traffic Priority Queuing
 - QoS Service Profiling
 - Providing Virtual Network Transmit Algorithm
 - Real-time Voice Traffic QoS Support
 - RTP Packet Transmit Interval Control
 - Supporting RTP Packet Redundancy Scheme
 - IP Header Control such as ToS, Diffserv
- Enhances **Receive** Voice QoS Features
 - Dynamic Jitter Buffer Management
 - Error Concealment
 - Support T.38 FAX Data Error Recovery Scheme



Network Protocols

AP-SVG3000 8 Port STT VoIP Gateway

Basic Network Protocols

- ARP, IPv4, TCP, UDP, ICMP, SCTP, IGMP, MLD

Routing Protocol

- IPv4 : Static

Service Protocol

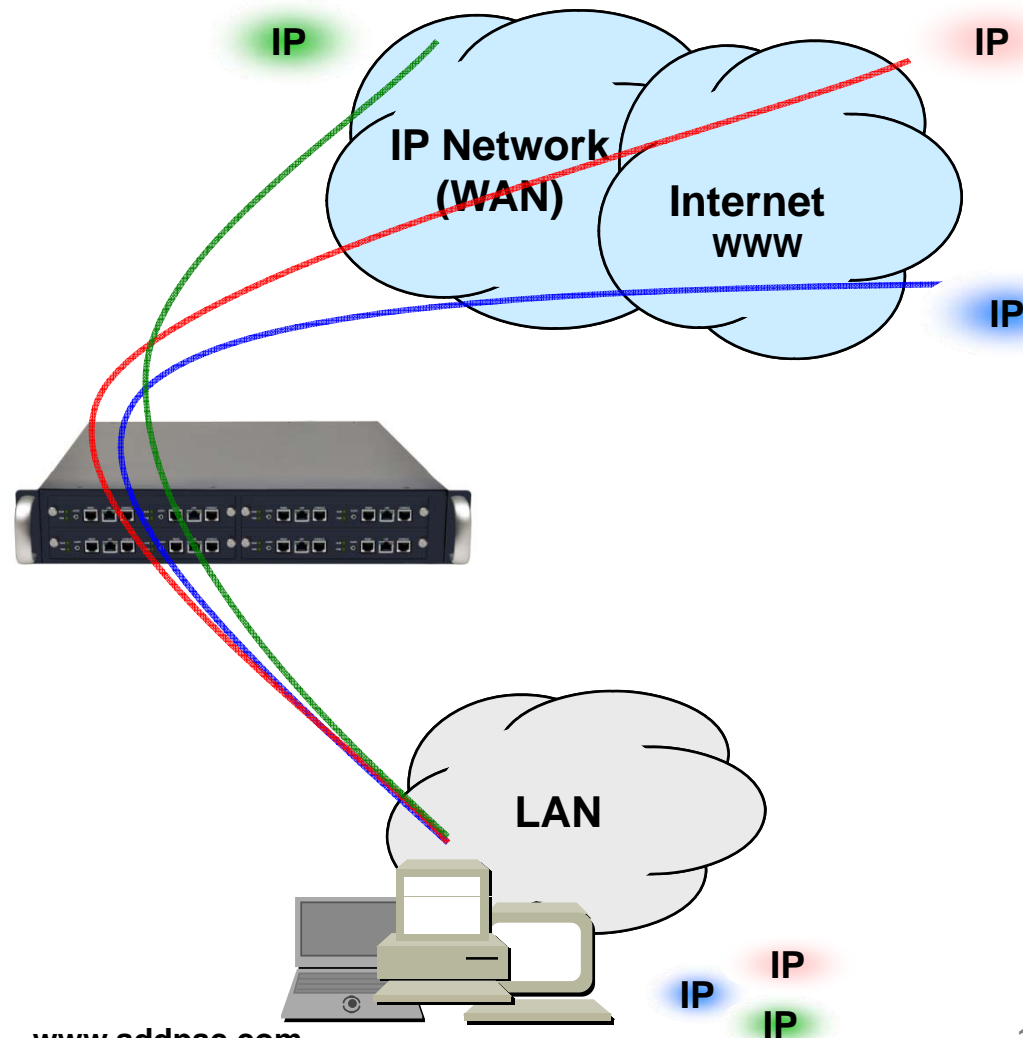
- FTP, Telnet, TFTP, DHCP Server/Relay, SNMP Server
- CDP (Cisco Discovery Protocol)
- DNS Resolver , DDNS(nsupdate)
- Bridge
- Syslog

IPv4 Address Configuration

- Fixed (Static)
- DHCP
- PPPoE

Miscellaneous

- Cisco Style CLI
- Standard & Extended IPv4 Access List
- Multi-level User Account Management
- IP accounting
- STUN Client



Network Management

AP-SVG3000 8 Port STT VoIP Gateway

- **SNMP**

- Standard Simple Network Management Protocol(SNMP) Agent support
- MIB v1 and v2 Support

- **Web-based Management**

- Smart Easy Setup
- Standard Voice Interface
- Standard PSTN Back-up Interface

- **Watch-dog Function**

- Hardware, Software watch-dog services

- **Remote Management**

- Telnet
- Rlogin

- **Auto Upgrade Service**

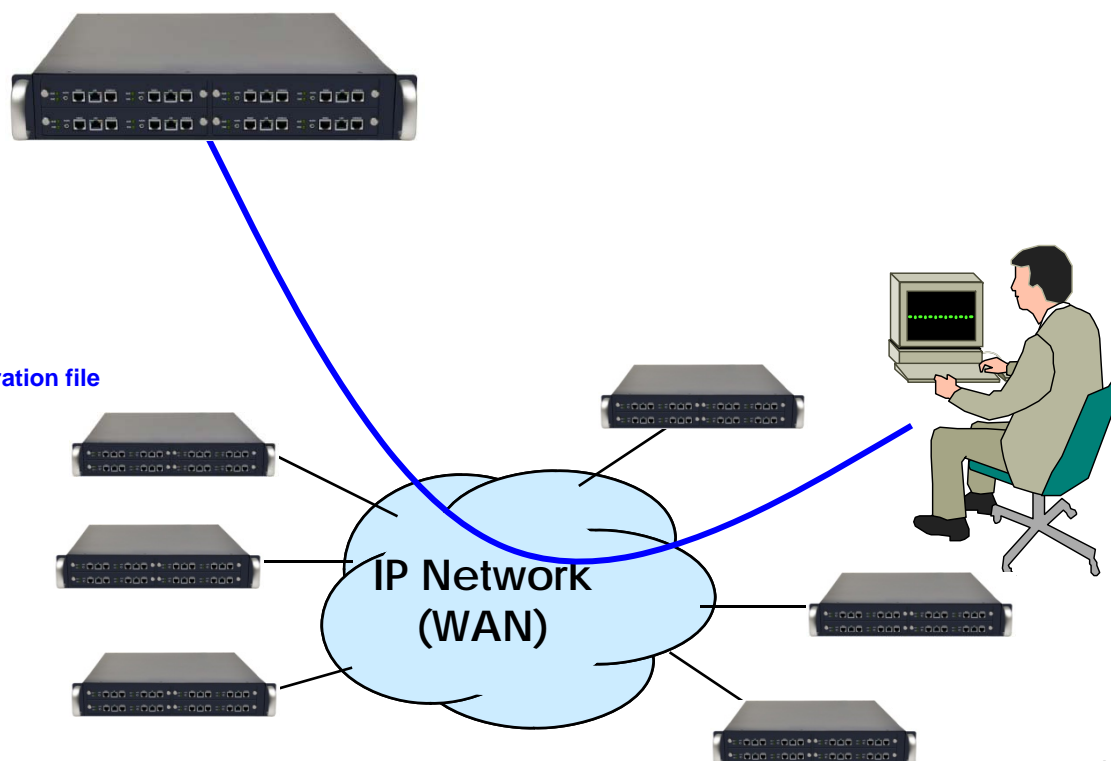
- HTTP server based APOS image and configuration file auto-upgrade support

- **Batch Job Function**

- Text based script downloading

- **Interoperable with AP-VPMS Service**

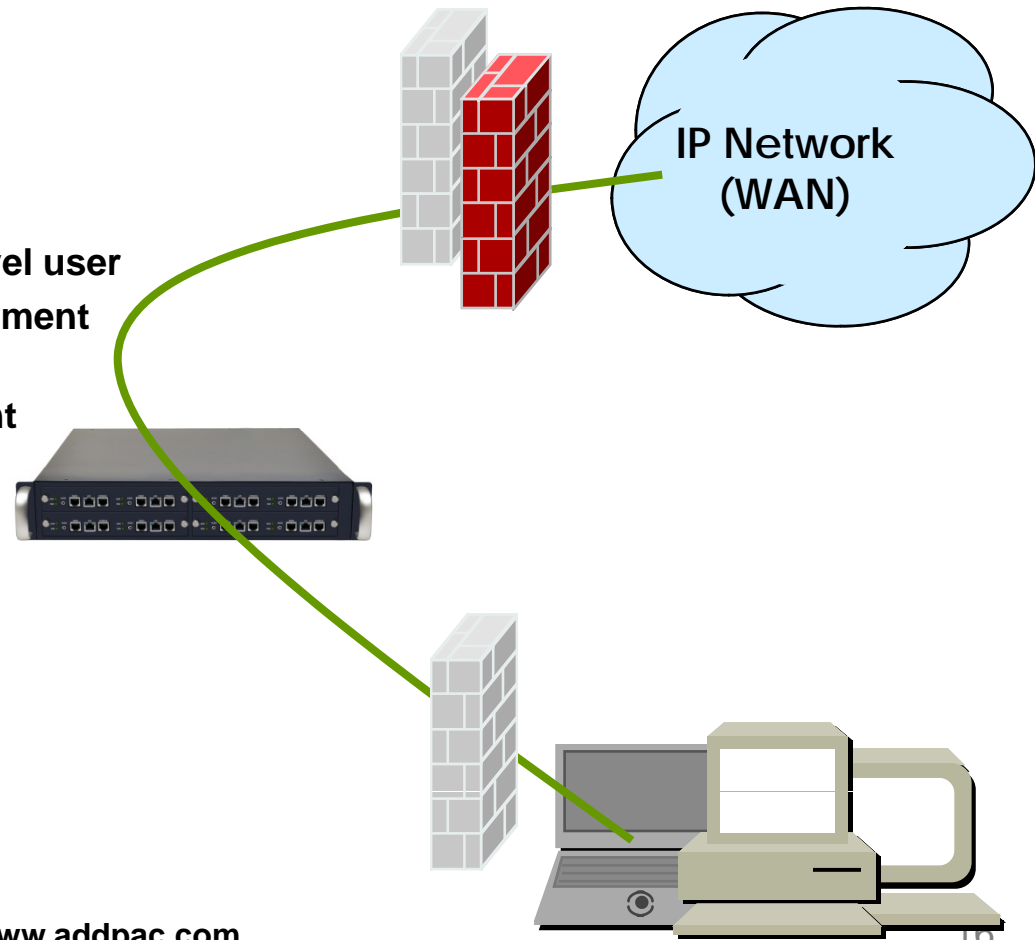
- AddPac VoIP Plug & Play Management System (AP-VPMS)



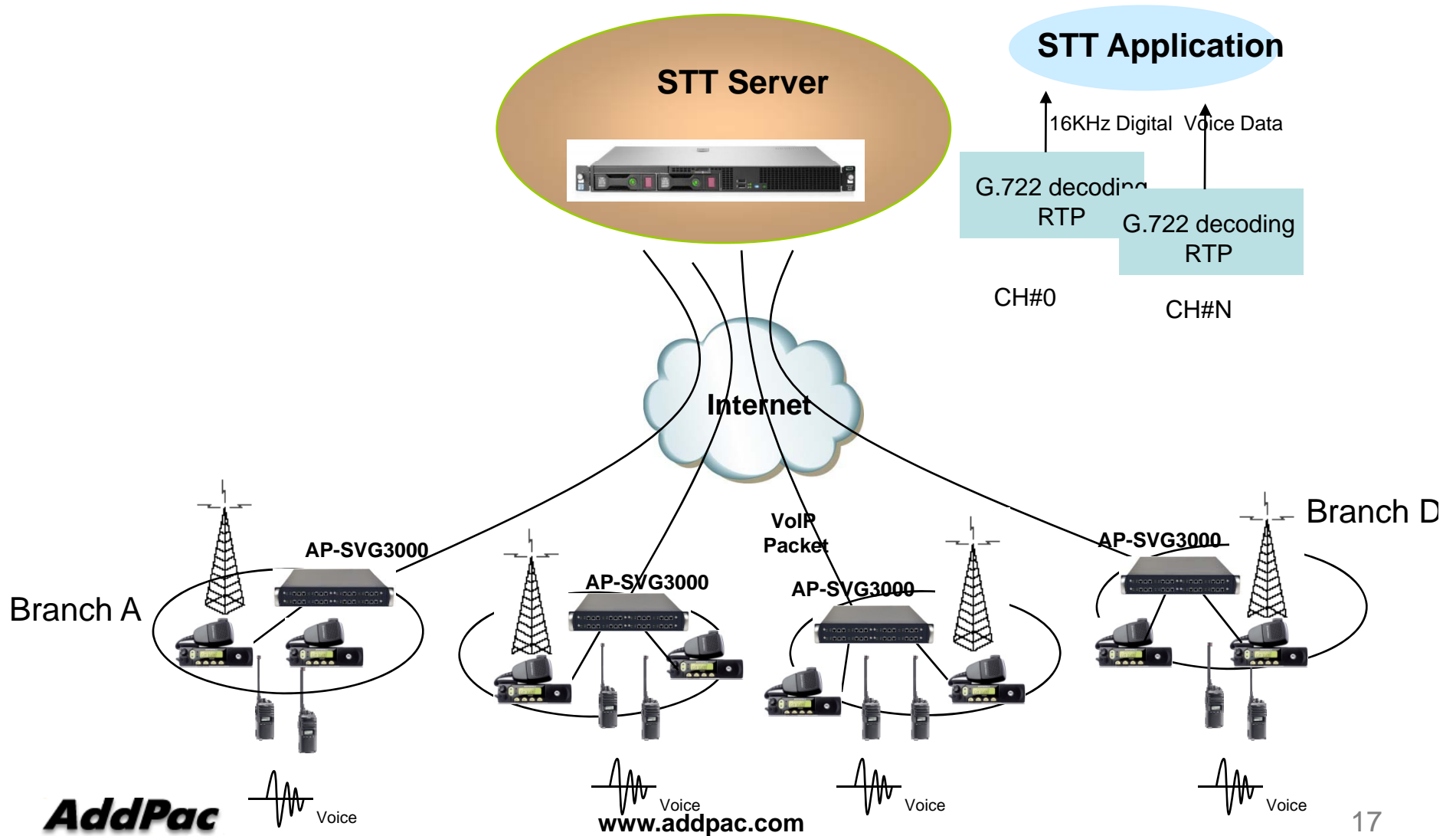
Security Management

AP-SVG3000 8 Port STT VoIP Gateway

- IP packet filtering
- IP access list
- User authentication function
 - Password Authentication Protocol (PAP)
 - Challenge Handshake Authentication Protocol (CHAP)
- Enable/Disable specific protocols
- Auto-square connect of Telnet session
- Account Management function for multi-level user
- SNMP/TELNET/FTP/HTTP/TFTP port assignment function
- SNMP/TELNET/FTP access list management
- Boot mode security checking function



STT (Speech to Text) VoIP Service



Ordering Information

- **AP-SVG3000 8 Port STT VoIP Gateway Hardware**
 - AP-SVG3000 STT VoIP Gateway Main Body
 - RISC Microprocessor with High-end Programmable DSP Architecture
 - Four(4) 2 Port STT VoIP Module Slot
 - 2 Port STT VoIP Module
 - STT VoIP Port : Audio (3.5mm) Interface, Radio(RJ45), LAN (RJ45), Console (RJ45)
 - Including Network Cable & Power Supply, etc.
- **Built-in APOS Internetworking Software for AP-SVG3000**
- **Including 1 Year Hardware Warranty**
- **Product Documents**
 - Install and Operation Guide (PDF)
- **Pricing**
 - AddPac Technology Regional Sales Manager
 - Authorized Sales and Marketing Representatives
 - Please Contact www.addpac.com

STT VoIP Gateway Series

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