AP-LVAC100 Lobby SIP Video Door Phone

High Performance IP Video Door Phone Solution



Product Overview

(Without notice, following described technical spec. can be changed)



AddPac Technology

Sales and Marketing

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- Product Overview
- Product Highlights
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- Audio & Voice Service and Features
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Product Overview

- High Performance SIP Video Door Phone Solution for Lobby
- Video Camera, 3x4 Key, TFT Color LCD, Internal MIC & Speaker
- High Quality 3.5 Inch LCD, 320 x 240 Video Resolution
- RF Card Support
- SIP VoIP Signaling Stack Embedded
- High-performance Video/Voice Codec Support
 - H.264/MPEG4, 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
- Advanced Voice QoS Mechanism



Product Highlights

AP-LVAC100 Lobby SIP Video Door Phone

V²olP Telephony

SIP based Video Door Phone for Lobby

Powerful Acoustic Echo Canceller

RF Card Interface, Fingerprint Recognition Alarm & Relay Out Interface

> APOS[™]Technology Multimedia Network Protocol

> > IP based Network Protocol & Video/Voice Traffic QoS

3.5 Inch LCD Display 320 x 240 Resolution

High Performance RISC CPU & Programmable DSP

High-quality Image VGA, 30fps 64Kbps to 1Mbps

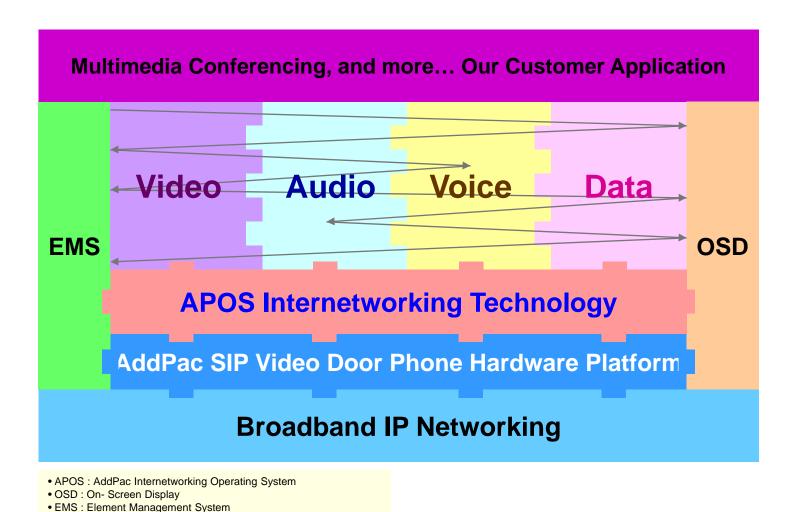
State-of-art Signaling SIP Signaling Stack

Broadband IP Networking With one 10/100Mbps ethernet

High-end Video Codec H.264, MPEG4, H.263 etc



Multimedia Service





- RISC+DSP Microprocessor Computing Power
- Audio and Voice Interface
 - Internal MIC
 - Internal Speaker
 - 3 x 4 key PAD
- Video Camera Interface
- TFT Color LCD Interface
 - 3.5 Inch LCD, 320 x 240 Video Resolution
- Network Interface
 - One(1) 10/100Mbps Fast Ethernet
- RF Card Interface
- Alarm & Relay Out Interface (door open, etc)
- RS232/RS485 Interface
- External RCA Audio Line Out and MIC In (back side)
- Steel Chassis
- Power Supply
 - Power over Ethernet (Option)
 - External Power Supply









AP-LVAC100 Lobby SIP Video Door Phone

Acoustic Echo Canceller

- Full-duplex operation during double-talk situations
- One channel AEC, one channel LEC up to 256ms shared
- Cancels echoes with up to 10dB echo return
- Advanced noise reduction(up to 20dB)

Speaker

- Impedance: 8 +-15%ohm at 1kHz, 1.0 Vrms
- Sound Pressure: 90 +- 3dB at 0.1W/10 CM

at 800Hz, 1.0kHz, 1.2kHz, 1.5kHz

- Resonance Level: 550Hz +- 20%Hz at Fo Hz, 1.0Vrms
- Frequency Range : Fo Hz ~20kHz
- Input Power: Normal: 1.0 W, Max: 2.0W

Audio Amplifier

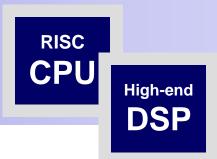
- 1-W BTL Output(5V, 0.11 % THD+N)
- Uncompensated Gains of 2 to 20 (BTL Mode)
- Thermal and Shot-circuit Protection
- High Supply Ripple Rejection Ratio

PoE(Power over Ethernet)

- IEEE802.3af compliant
- Input voltage range 36V to 57V

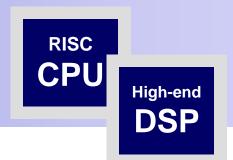
Short-circuit Protection







AP-LVAC100 Lobby SIP Video Door Phone



LCD Controller

- One-Chip Solution for amorphous TFT-LCD
- Support resolution up to 240xRGBx320
- Built-in 172800 bytes internal RAM
- 6,8,16, and 18-bit RGB Interface
- Resize Function (x ½, x ¼)
- On-Chip Power Management System

Camera

- High Sensitivity for low-light operation
- Output support for Raw RGB, RGB, and YCrCb format
- Image Size : VGA, QVGA, and any size scaling down from CIF to 40x30
- Support AEC, AGC, AWB, ABF, ABLC
- Saturation Level, Edge Enhancement Level, De-noise level Auto adjust



AP-LVAC100 Lobby SIP Video Door Phone

RF Card Sensor

Protocol Supported

ISO14443A/B all bit rates

> 106,212,424 and 848 kbps

Compatible to MiFare Classic

ISO15693 all modes

- > 1.65/6.6 & 26.5 kbps
- > Uplink 1 & 2 sub-carrier

Receiver

Rx Sensitivity down to 1mVrms
Rx Automatic Gain Control
Accept external baseband signal from
external circuitry for frame level processing
Integrated signal strength indicator (SSI)
On-Chip Framing handler for supported standard

Transmitter

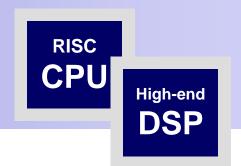
Typical proximity operating distance up to 100mm.

Software configurable modulation index

Maximum driving current up to 200 mA/PIN @ 5V

Accept external baseband signal for RF modulation

Wide Transmitter driver supply range from 2.7~7.0V

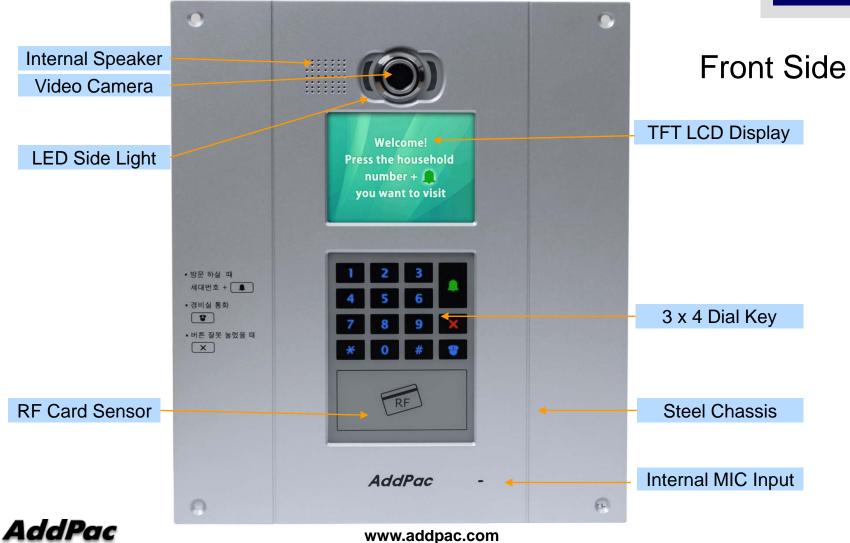




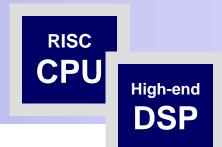
RF Card Sensor







AP-LVAC100 Lobby SIP Video Door Phone





RS485

RS232

2 Alarm, 2 Relay Out



Option: Line Out

Option: MIC In

LAN Port

Power Input : Terminal Block 12V 1A



AP-LVAC100 Lobby SIP Video Door Phone



High-end DSP

Power Supply



Example





Software Service

- Built-in AddPac APOS Internetworking Software
 - Scalability, Functionality, and Stability Features
 - Video Traffic QoS Control
- Programmable Video, Audio, and Voice Services
 - Video Codes, Audio, and Voice Codec
- Firmware Upgradeable DSP Architecture
- OSD (On-screen Display) Function Support
- Industry Standard IP based Network Protocol Features





Video Service and Features

- High-performance Video Codec Support
 - H.264, MPEG4,etc
- Image Resolution Support
 - Local Display : 160 x 120
 - Remote Display: 240 x 160
 - Video Encoding: VGA(640x480), QVGA(320x240)
- Up to 30fps with VGA Resolution
- 128Kbps to 1Mbps Operating Video Traffic Bandwidth
- Rate Control for Video Traffic QoS
 - Ensuring Optimized Quality
 - Frame Rate with Limited Bandwidth
- High-end Error Resilient Against Various Packet Error



Audio & Voice Service and Features

- Audio & Voice Networking Interface
 - External Audio Line-Out Interface (RCA Connector)
 - External Audio MIC-In Interface (RCA Connector)
- VolP based Signaling Protocol Support
 - SIP Signaling Protocol Stack
- High-performance Audio & Voice Codec Support
 - G.711, G.726 Audio Codec
- Enhanced QoS Management Features for Voice Traffics



Smart Web Manager (Example)



Smart Web Manager

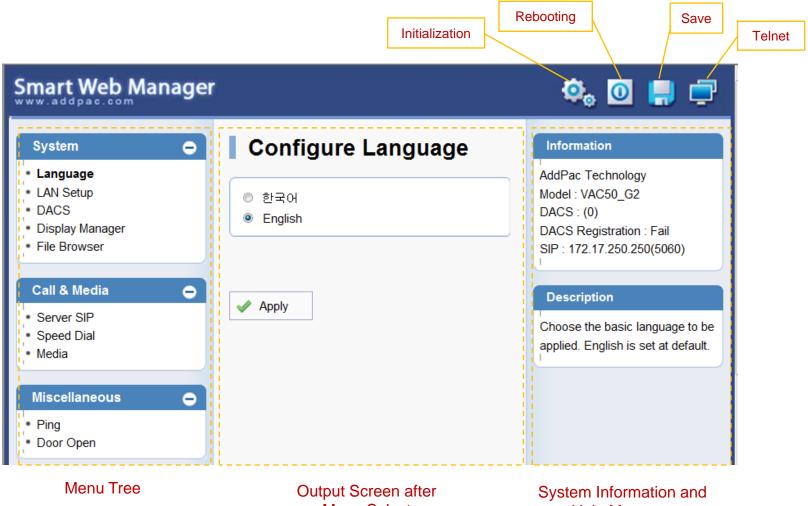
- Main Screen
- System
 - Language
 - LAN Setup
 - DACS
 - Display
 - File Browser
- SIP Call & Media
 - SIP (Session Initiation Protocol)
 - Speed Dial
 - Media
- Miscellaneous
 - Door Control and Test
 - Network Test





Smart Web Manager: Main Screen

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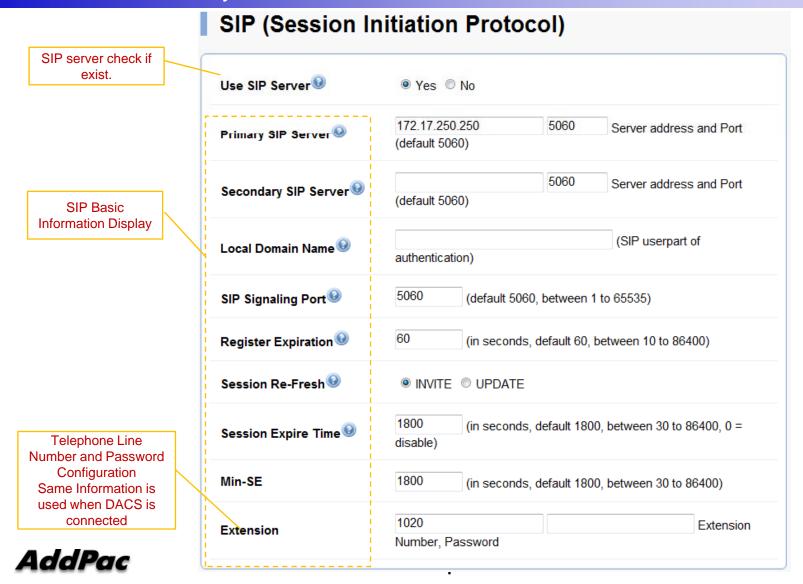




Menu Select

Help Message

Smart Web Manager: SIP configuration



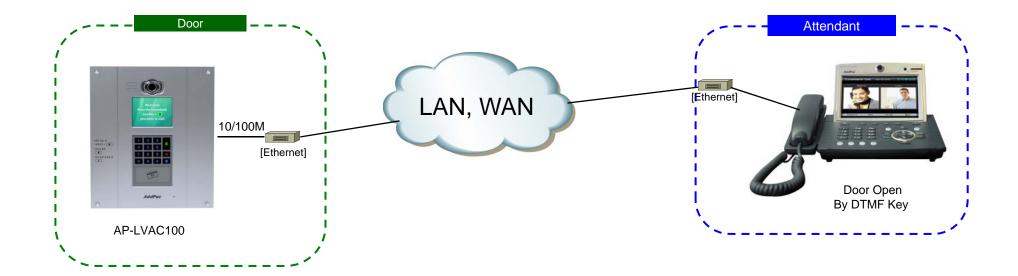
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Application Area

- Point-to-Point Application (Simple Application)
- Point-to-Multipoint Application
 - All AddPac Solution
 (Call Manager + Door Access Control Server)
 - Legacy PBX Environment
 - Legacy IP-PBX Environment

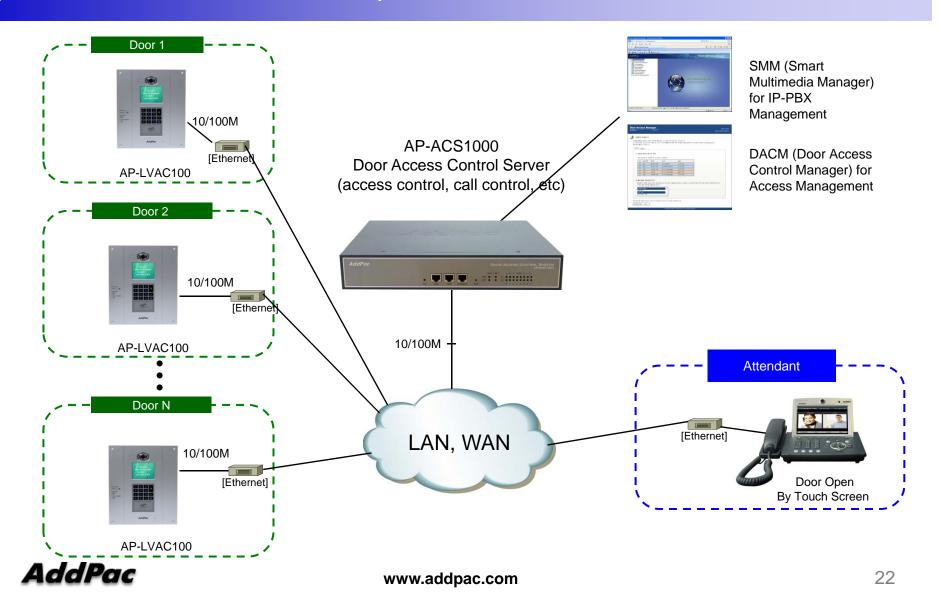


Point-to-Point Connection (Simple Appl.)

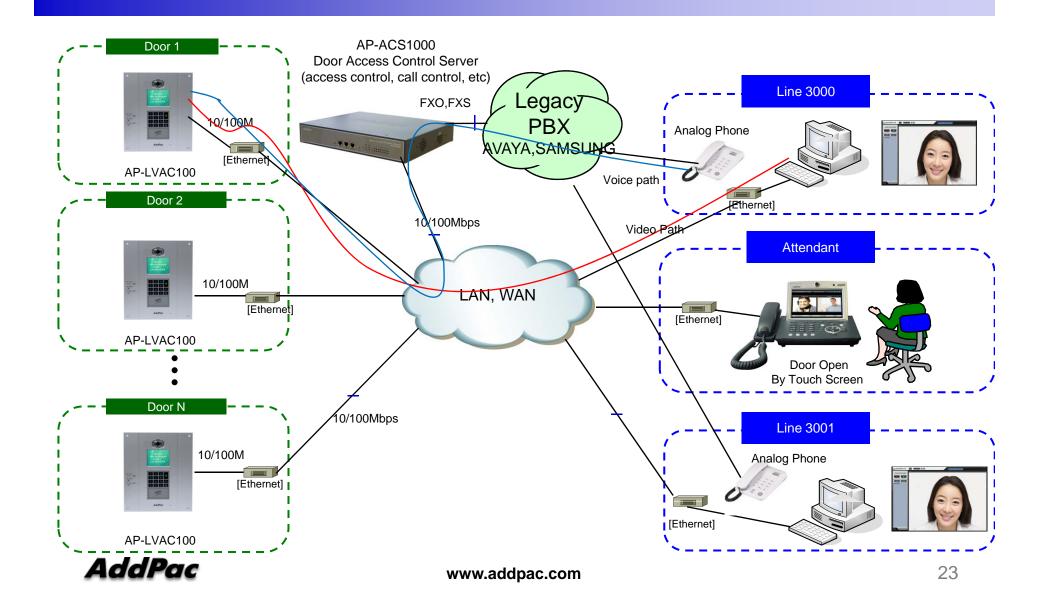




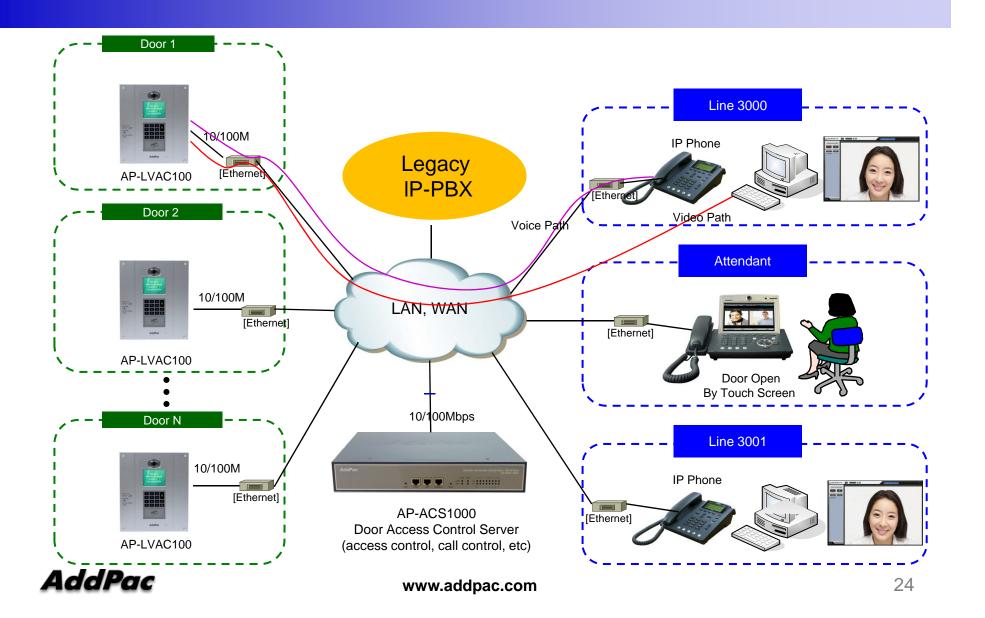
Integrated Door Access Control and Call Control (All AddPac Solution)



Legacy PBX Environment



Legacy IP-PBX Environment



Ordering Information

AP-LVAC100 Lobby SIP Video Door Phone Hardware

- AP-LVAC100 Lobby SIP Video Door Phone Main Body
- RISC Microprocessor with High-end Programmable DSP Architecture
- 3.5 Inch LCD, Built In Camera, Side Light
- RF card Interface
- Steel Chassis
- Internal MIC, Internal Speaker
- 1-ports 10/100Mbps Fast Ethernet
- PoE Interface
- Including Network Cable Set & Ext. Power Supply, etc.
- Built-in APOS Internetworking Software for AP-LVAC100
- 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



Thank you!

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