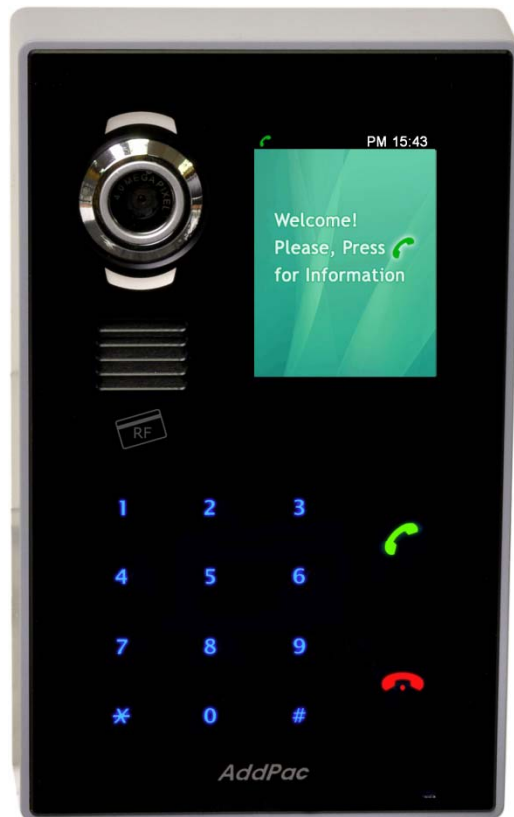


AP-VAC50H

Handset IP Video Door Phone

High Performance IP Video Door Phone Solution



AddPac

AddPac Technology

Sales and Marketing

www.addpac.com

Contents

- Product Overview
- Product Highlights
- Hardware Specification
- Software Service
- Video Service & Features
- Audio & Voice Service and Features
- OSD Software Features
- Smart Web Manager
- Application Area
- Ordering Information



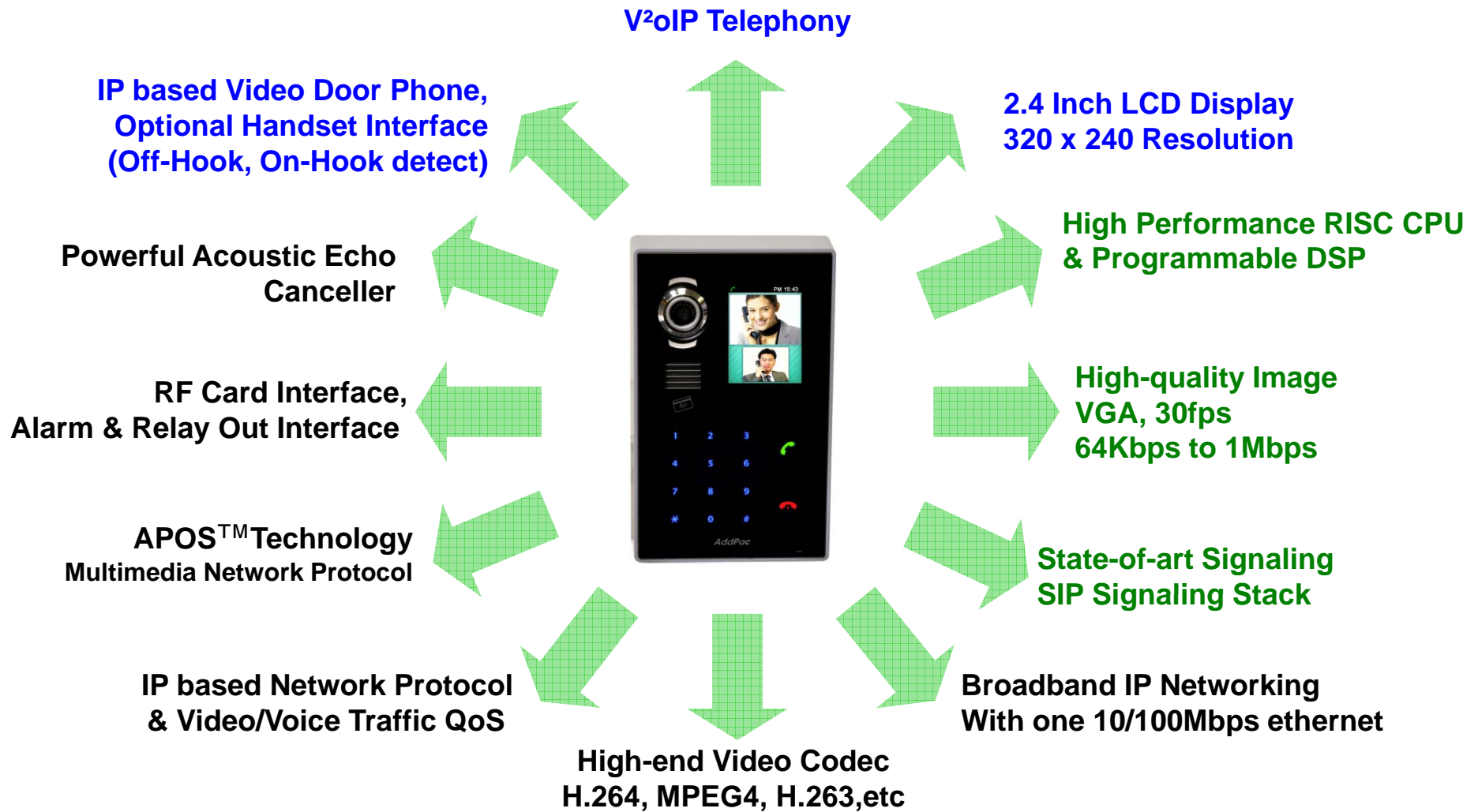
Product Overview

AP-VAC50H IP Video Door Phone

- High Performance Handset IP Video Door Phone Solution
- Video Camera, 3x4 Key, TFT Color LCD, Internal MIC & Speaker
- Optional Handset Interface, Off-Hook/On-Hook Detect
- High Quality 2.4 Inch LCD, 320 x 240 Video Resolution
- 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-VAC50H IP Video Door Phone

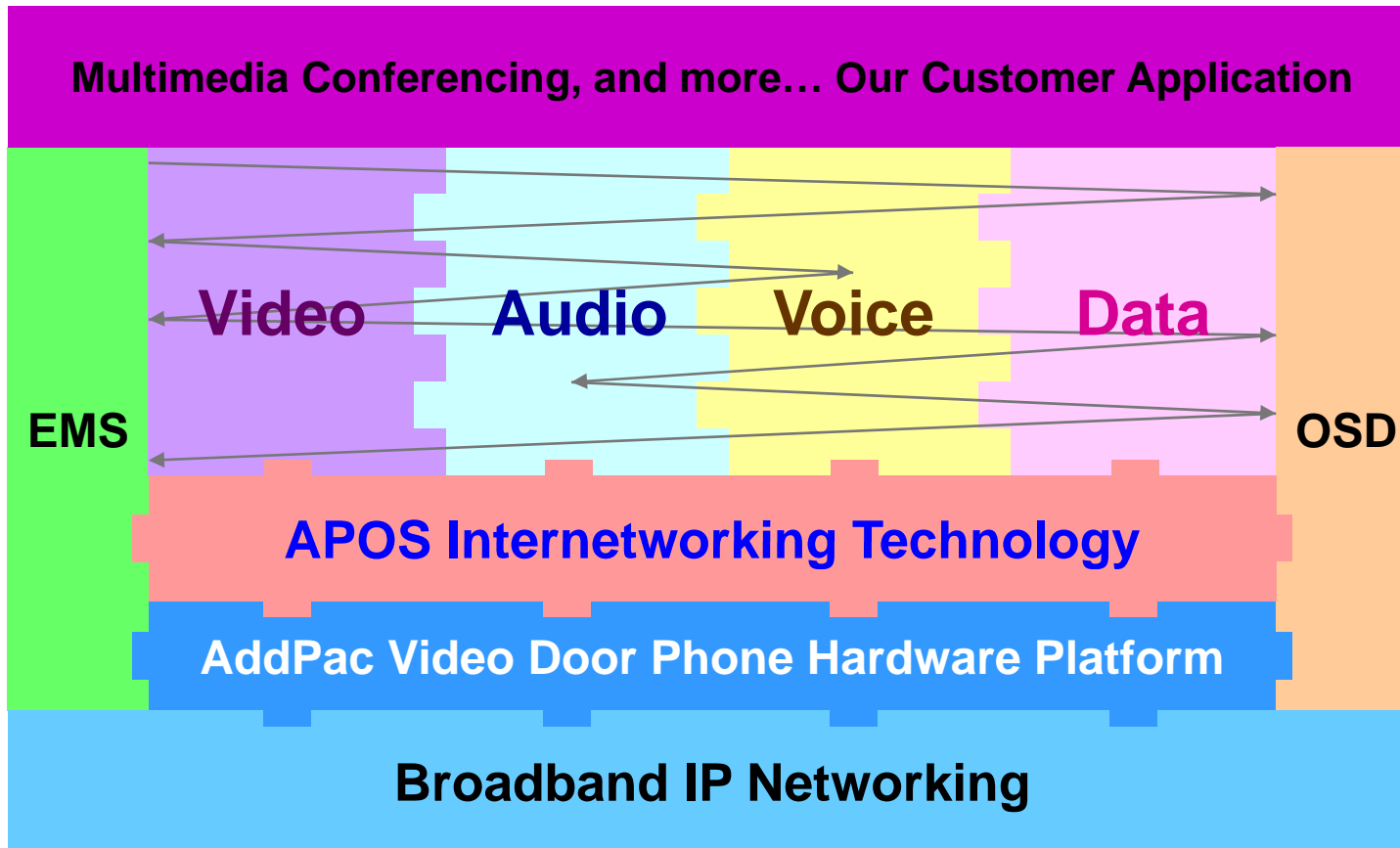


AddPac

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Multimedia Service

AP-VAC50H IP Video Door Phone



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

Hardware Specification

AP-VAC50H IP Video Door Phone

RISC
CPU

High-end
DSP

- 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
 - 2.4 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 Interface
- Handset Interface(Optional), Off Hook/On-Hook Detect
- Power Supply
 - Power over Ethernet (Option)
 - External Power Supply



Hardware Specification

AP-VAC50H IP Video Door Phone

RISC
CPU

High-end
DSP

- **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



Hardware Specification

AP-VAC50H IP Video Door Phone

RISC
CPU

High-end
DSP

- **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

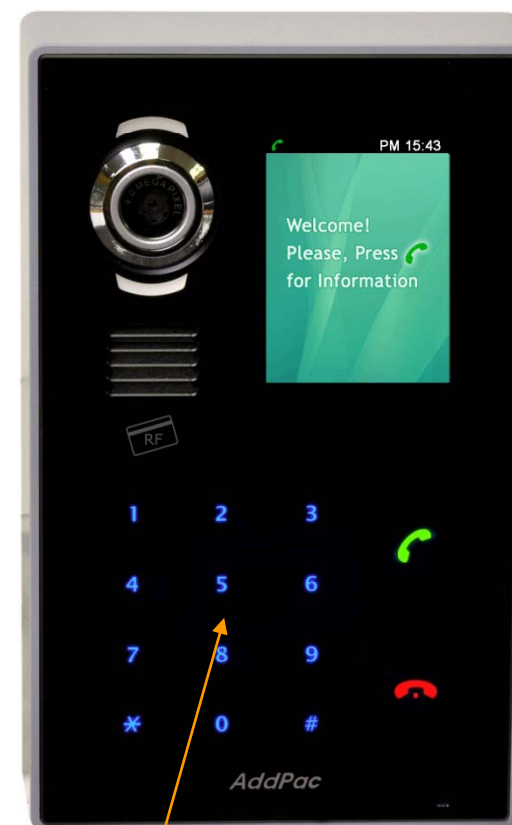
Hardware Specification

AP-VAC50H IP Video Door Phone

RISC
CPU

High-end
DSP

- 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

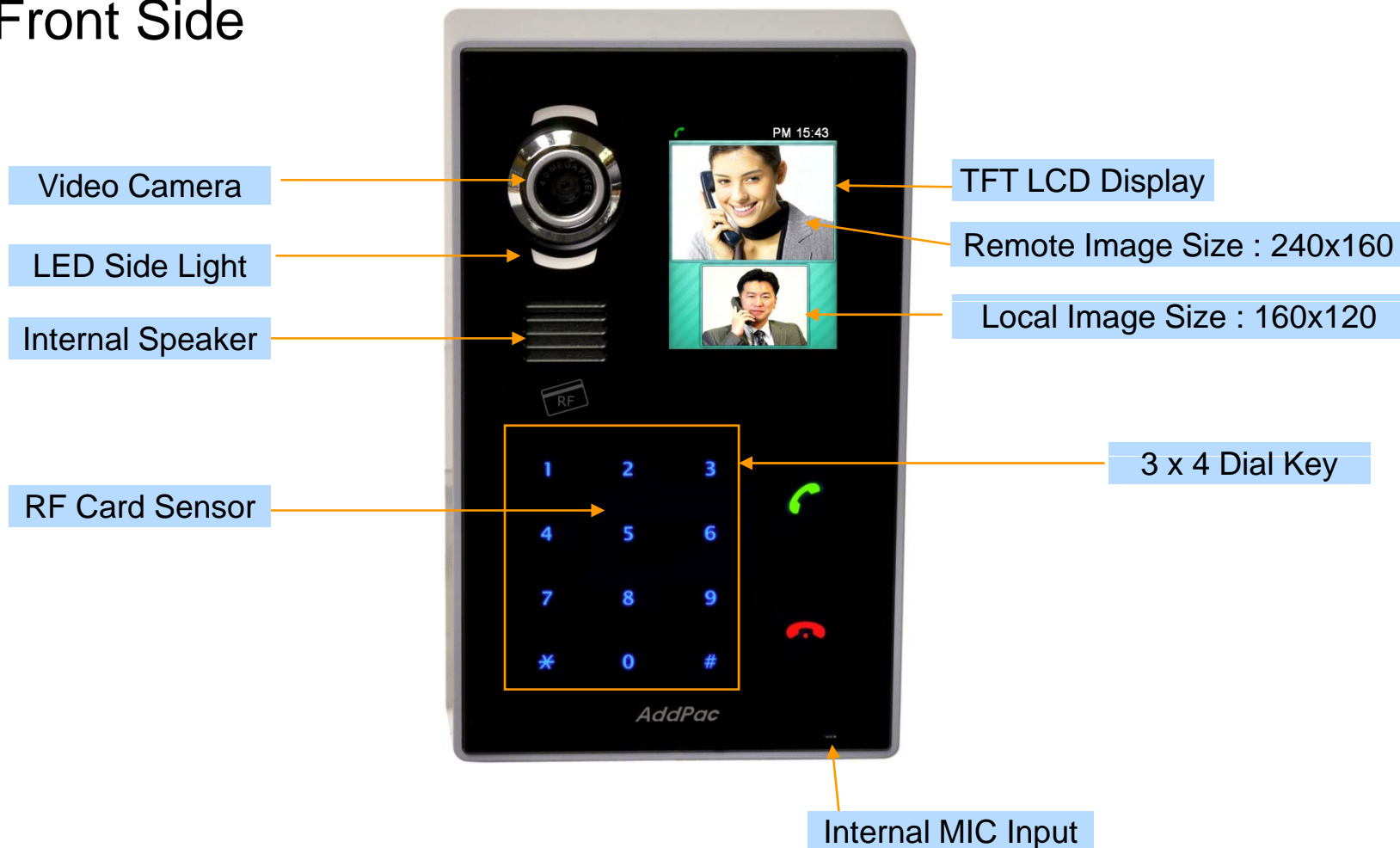
Hardware Specification

AP-VAC50H IP Video Door Phone

RISC
CPU

High-end
DSP

Front Side



Hardware Specification

AP-VAC50H IP Video Door Phone

RISC
CPU

High-end
DSP

Back Side



Wall Mount Bracket

Rubber Cover for light waterproof

Hardware Specification

AP-VAC50H IP Video Door Phone

RISC
CPU

High-end
DSP

Power Supply

Terminal Block



12V 1A Power Adaptor

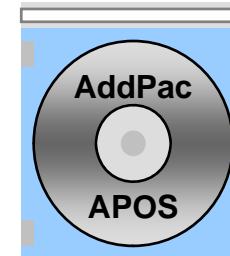
Example



Software Service

AP-VAC50H IP Video Door Phone

- **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

AP-VAC50H IP Video Door Phone

- **High-performance Video Codec Support**
 - H.264, MPEG, H.263, 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

AP-VAC50H IP Video Door Phone

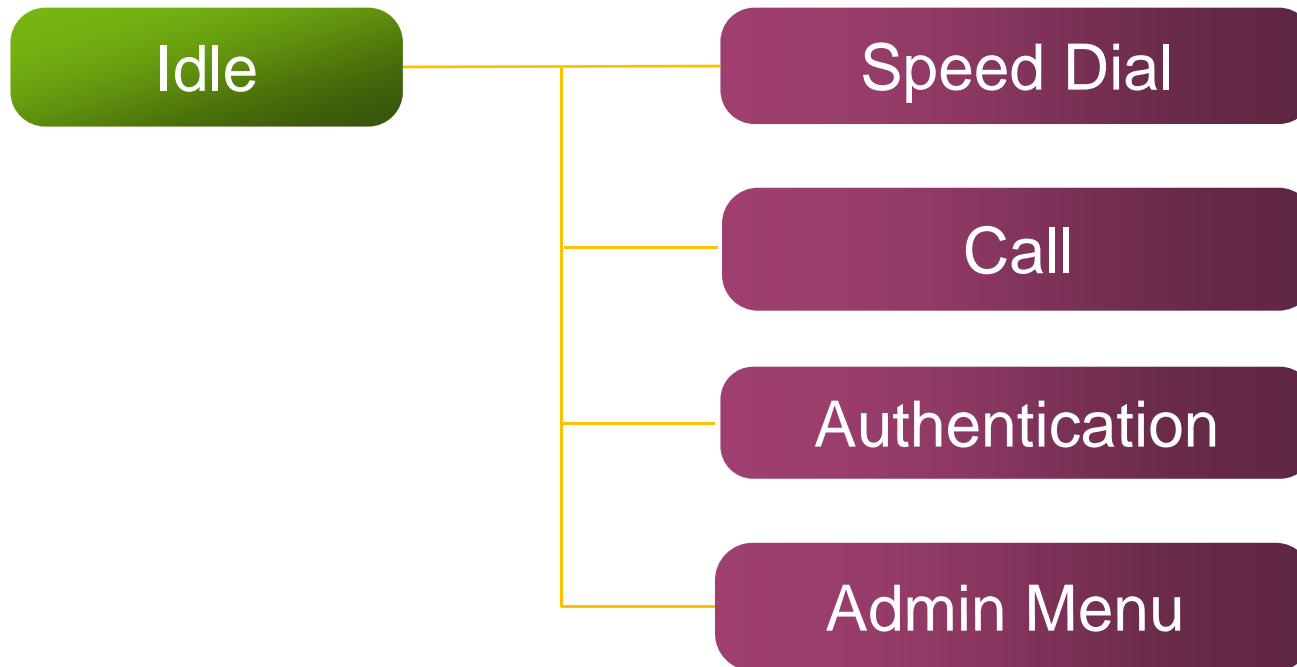
- **Audio & Voice Networking Interface**
 - External Audio Line-Out Interface (RCA Connector)
 - External Audio MIC-In Interface (RCA Connector)
- **VoIP based Signaling Protocol Support**
 - SIP Signaling Protocol Stack
- **High-performance Audio & Voice Codec Support**
 - G.711, G.726 Audio Codec
-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



OSD Software Feature

OSD Software Features

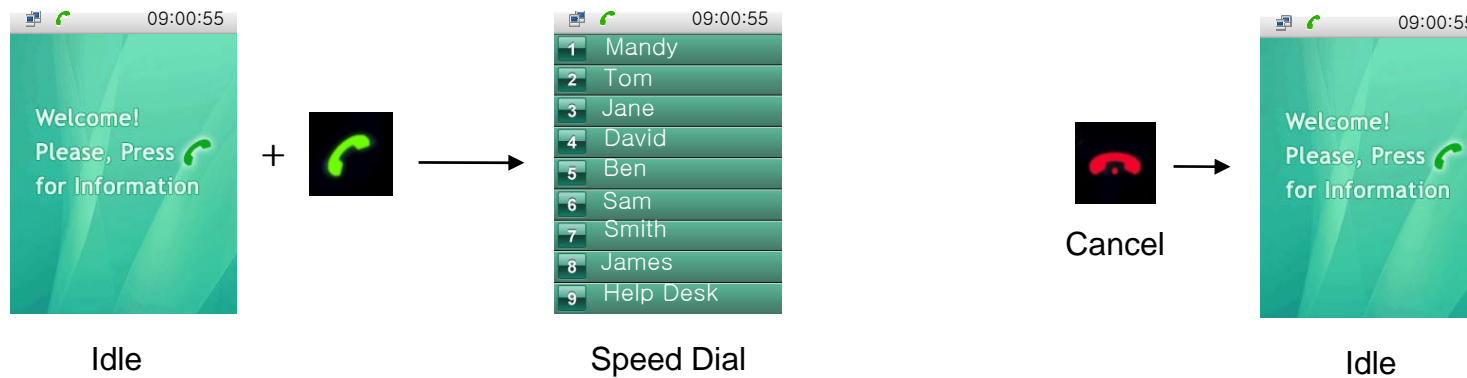
AP-VAC50H IP Video Door Phone



OSD Software Features

AP-VAC50H IP Video Door Phone

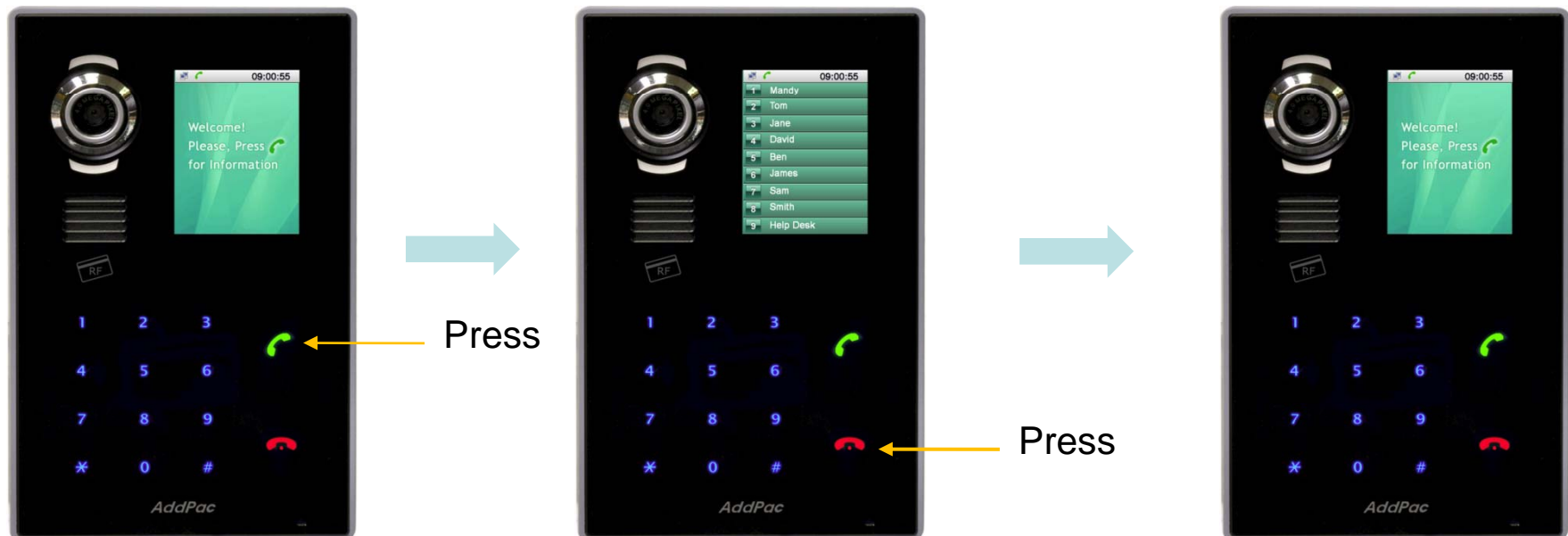
Speed Dial



OSD Software Features

AP-VAC50H IP Video Door Phone

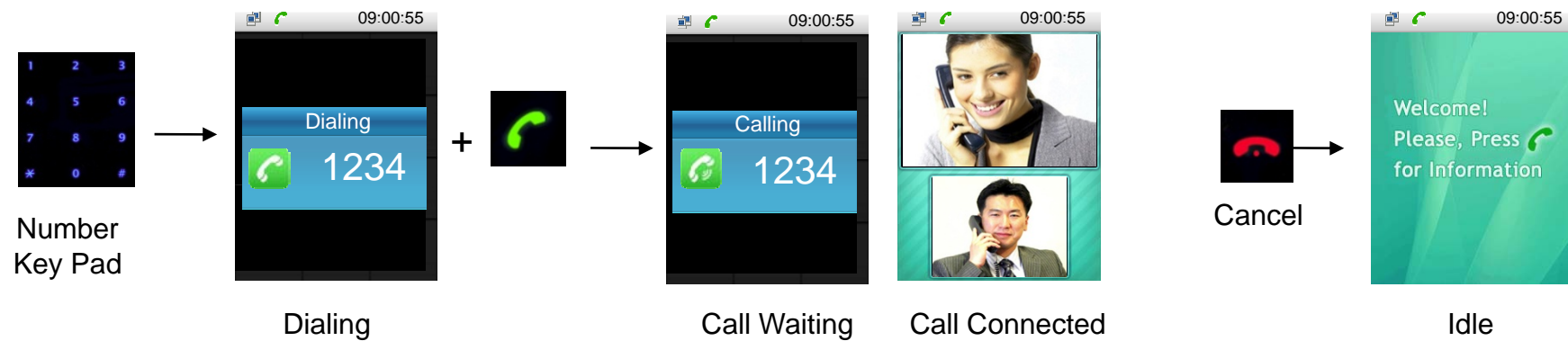
Speed Dial



OSD Software Features

AP-VAC50H IP Video Door Phone

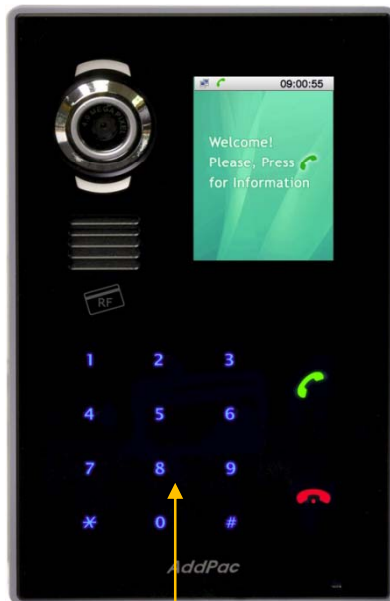
Call



OSD Software Features

AP-VAC50H IP Video Door Phone

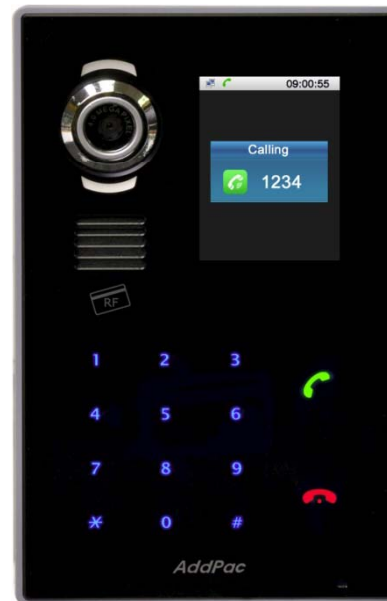
Call



Press Digit



Dialing
Press Call Button



Call Waiting

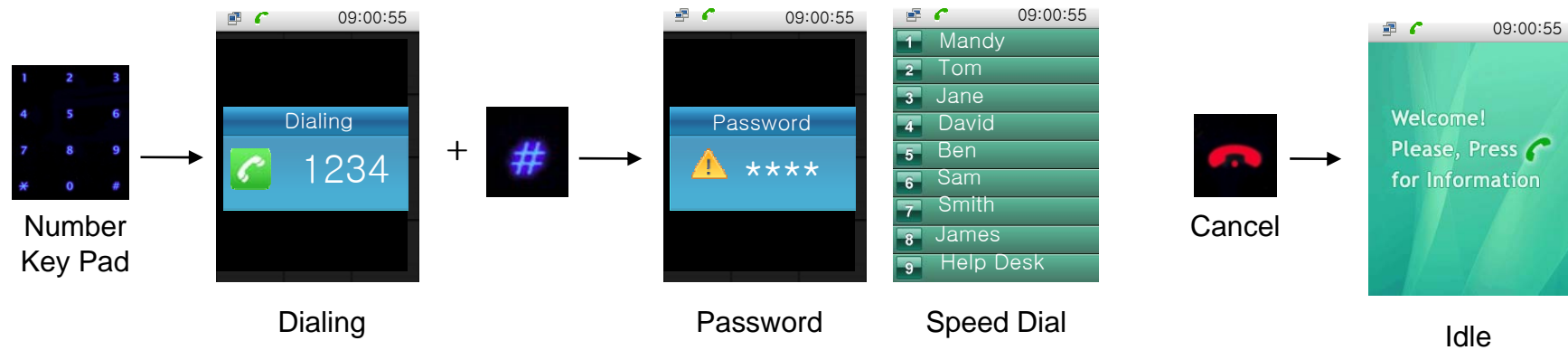


Call Connected

OSD Software Features

AP-VAC50H IP Video Door Phone

Authentication



OSD Software Features

AP-VAC50H IP Video Door Phone

Authentication



Press Digit



Dialing

Press # key



Password

Press Password Key



Speed Dial

AddPac

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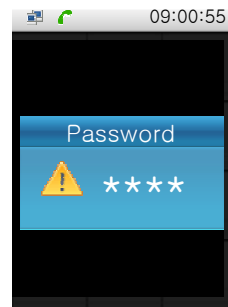
OSD Software Features

AP-VAC50H IP Video Door Phone

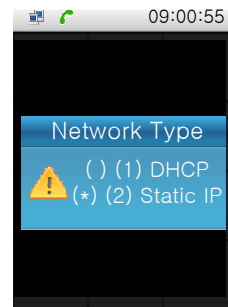
Admin. Menu



Repeat 5 times
or more



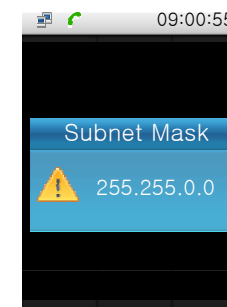
Password



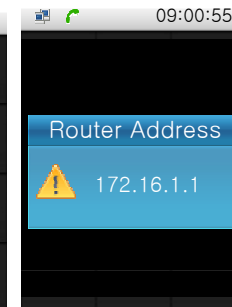
1) Network Type



2) IP Address



3) Subnet Mask

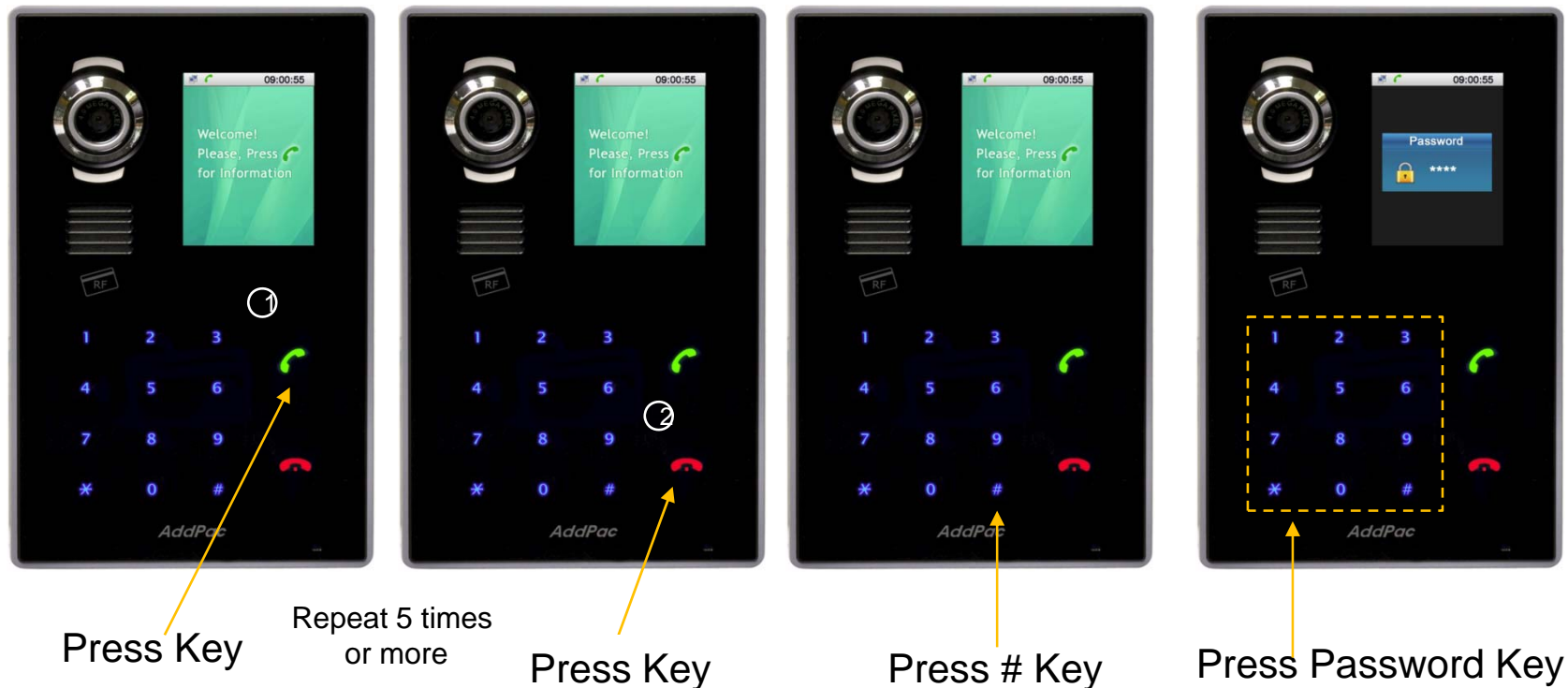


4) Router Address

OSD Software Features

AP-VAC50H IP Video Door Phone

Admin. Menu



OSD Software Features

AP-VAC50H IP Video Door Phone

Admin. Menu



1) Network Type

2) IP Address

3) Subnet Mask

4) Router Address



Smart Web Manager (Example)

Smart Web Manager

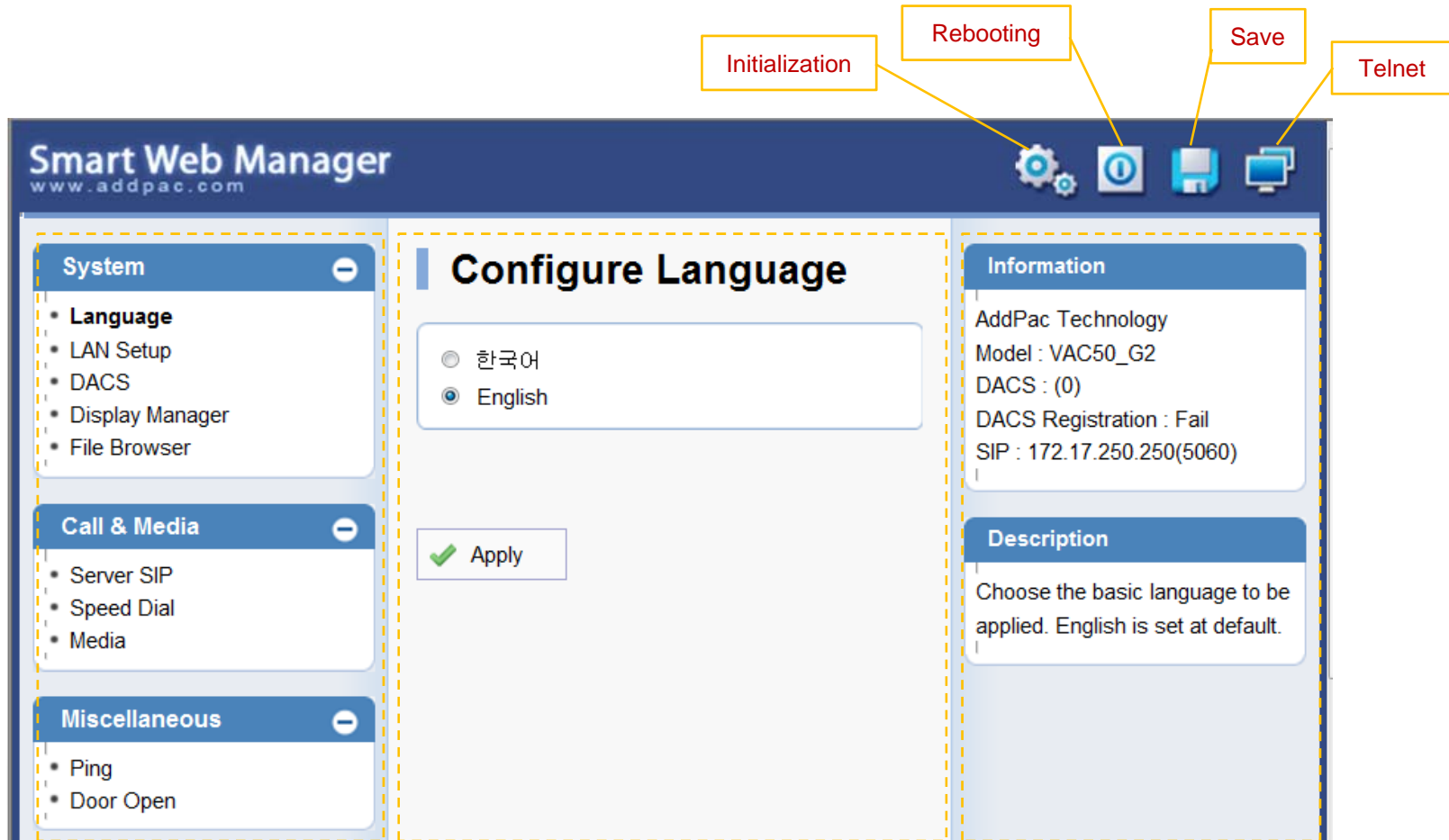
AP-VAC50H IP Video Door Phone

- 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

AP-VAC50H IP Video Door Phone



Menu Tree

Output Screen after
Menu Select

System Information and
Help Message

Smart Web Manager : SIP configuration

AP-VAC50H IP Video Door Phone

SIP (Session Initiation Protocol)

SIP server check if exist.

Use SIP Server Yes No

SIP Basic Information Display

Primary SIP Server

172.17.250.250 5060 Server address and Port (default 5060)

Secondary SIP Server

5060 Server address and Port (default 5060)

Local Domain Name

(SIP userpart of authentication)

SIP Signaling Port

5060 (default 5060, between 1 to 65535)

Register Expiration

60 (in seconds, default 60, between 10 to 86400)

Session Re-Fresh

INVITE UPDATE

Session Expire Time

1800 (in seconds, default 1800, between 30 to 86400, 0 = disable)

Min-SE

1800 (in seconds, default 1800, between 30 to 86400)

Extension

1020 Extension Number, Password

Telephone Line Number and Password Configuration Same Information is used when DACS is connected

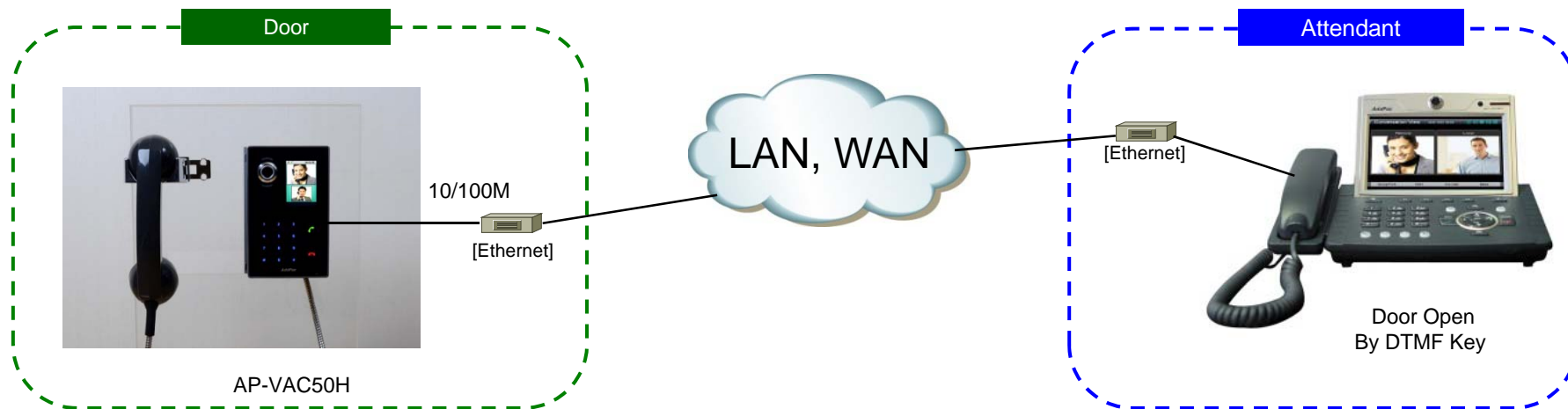
AP-VAC50H IP Video Door Phone

Application Area

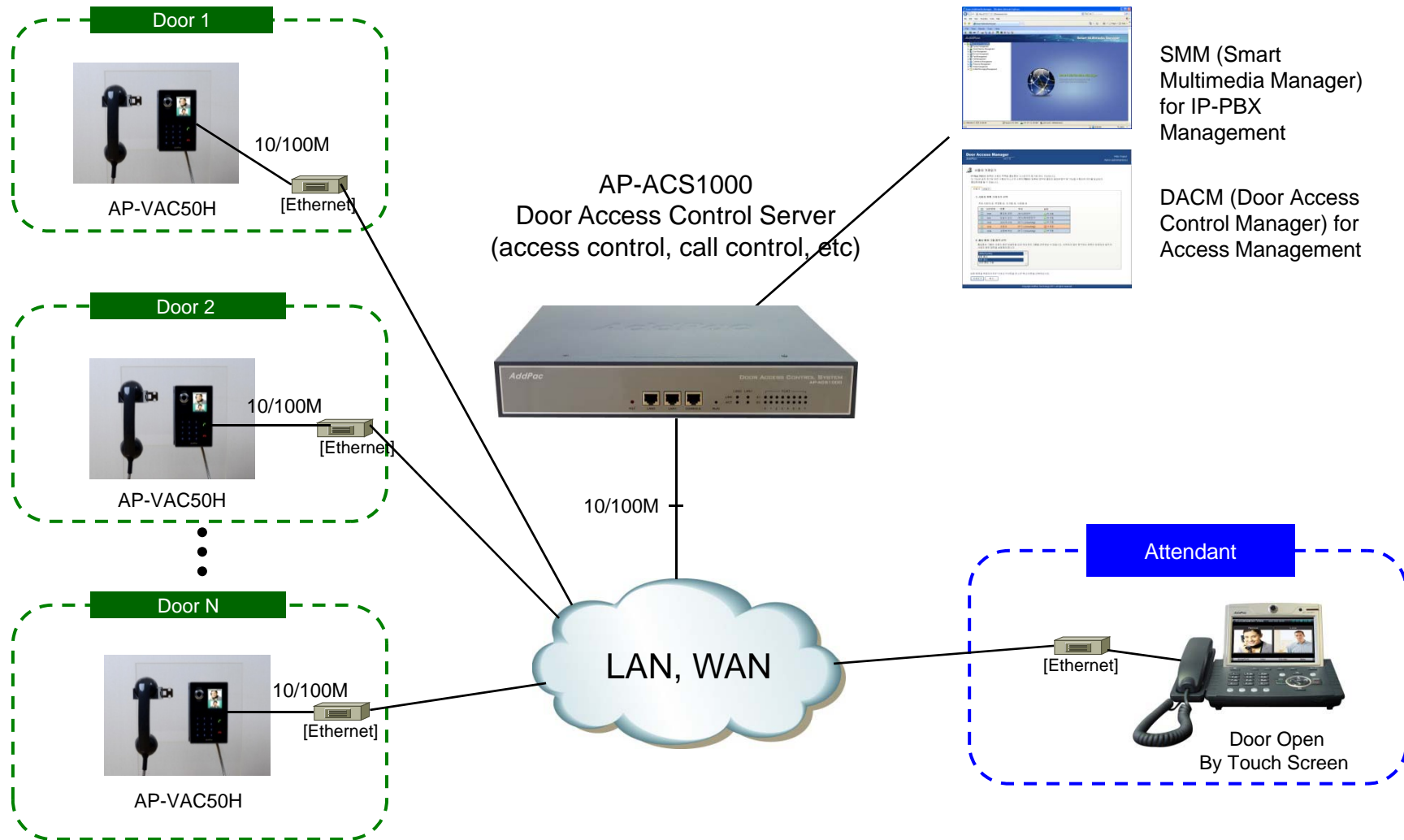
- Point-to-Point Application (Simple Application)
- Point-to-Multipoint Application
 - All AddPac Solution
(Call Manager + Door Access Control Server)
 - Legacy PBX Environment
 - Legacy IP-PBX Environment



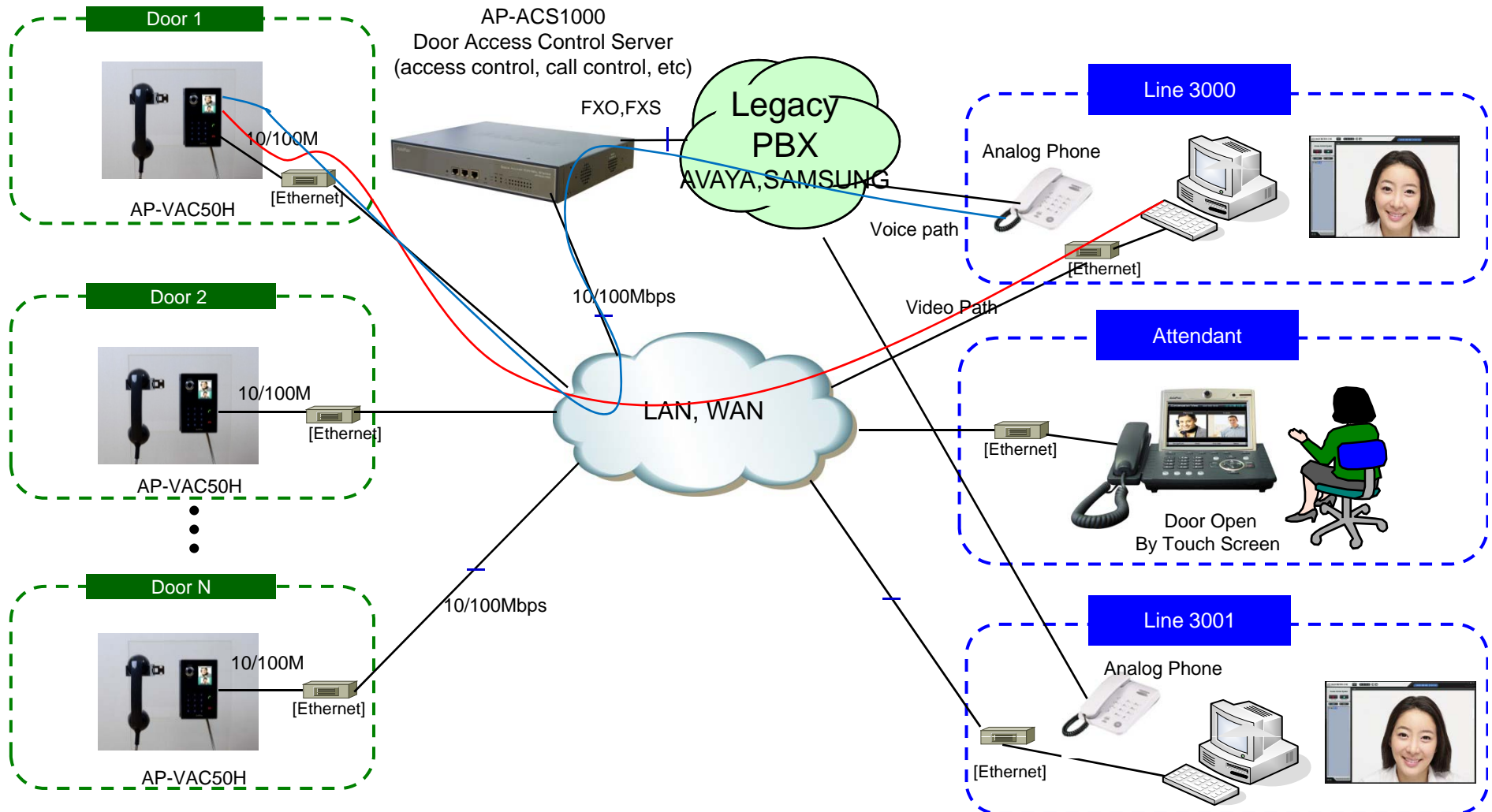
Point-to-Point Connection (Simple Appl.)



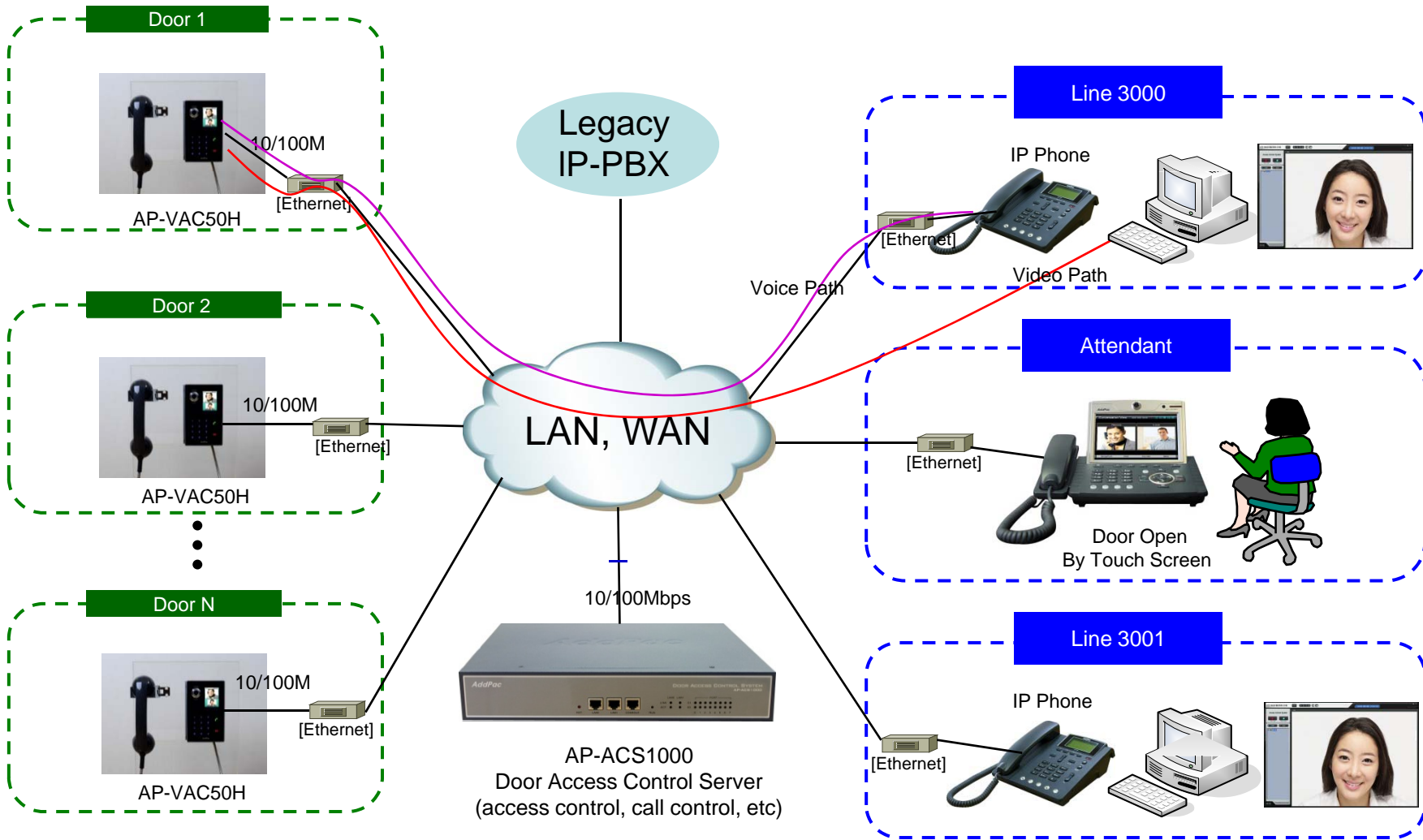
Integrated Door Access Control and Call Control (All AddPac Solution)



Legacy PBX Environment



Legacy IP-PBX Environment



Ordering Information

- **AP-VAC50H IP Video Door Phone Hardware**
 - AP-VAC50H Video Phone Main Body
 - RISC Microprocessor with High-end Programmable DSP Architecture
 - 2.4 Inch LCD, Built In Camera, Side Light
 - Internal MIC, Internal Speaker
 - 1-ports 10/100Mbps Fast Ethernet
 - PoE Interface(Optional)
 - Handset Interface (Option)
 - Including Network Cable Set & Ext. Power Supply, etc.
- **Built-in APOS Internetworking Software for AP-VAC50H**
- **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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Sales and Marketing

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