

AP-VAC80NFC

IP Video Door Phone

High Performance NFC IP Video Door Phone Solution
(NFC : Near Field Communication)

Preliminary Product Overview

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



AddPac

AddPac Technology

2016, Sales and Marketing

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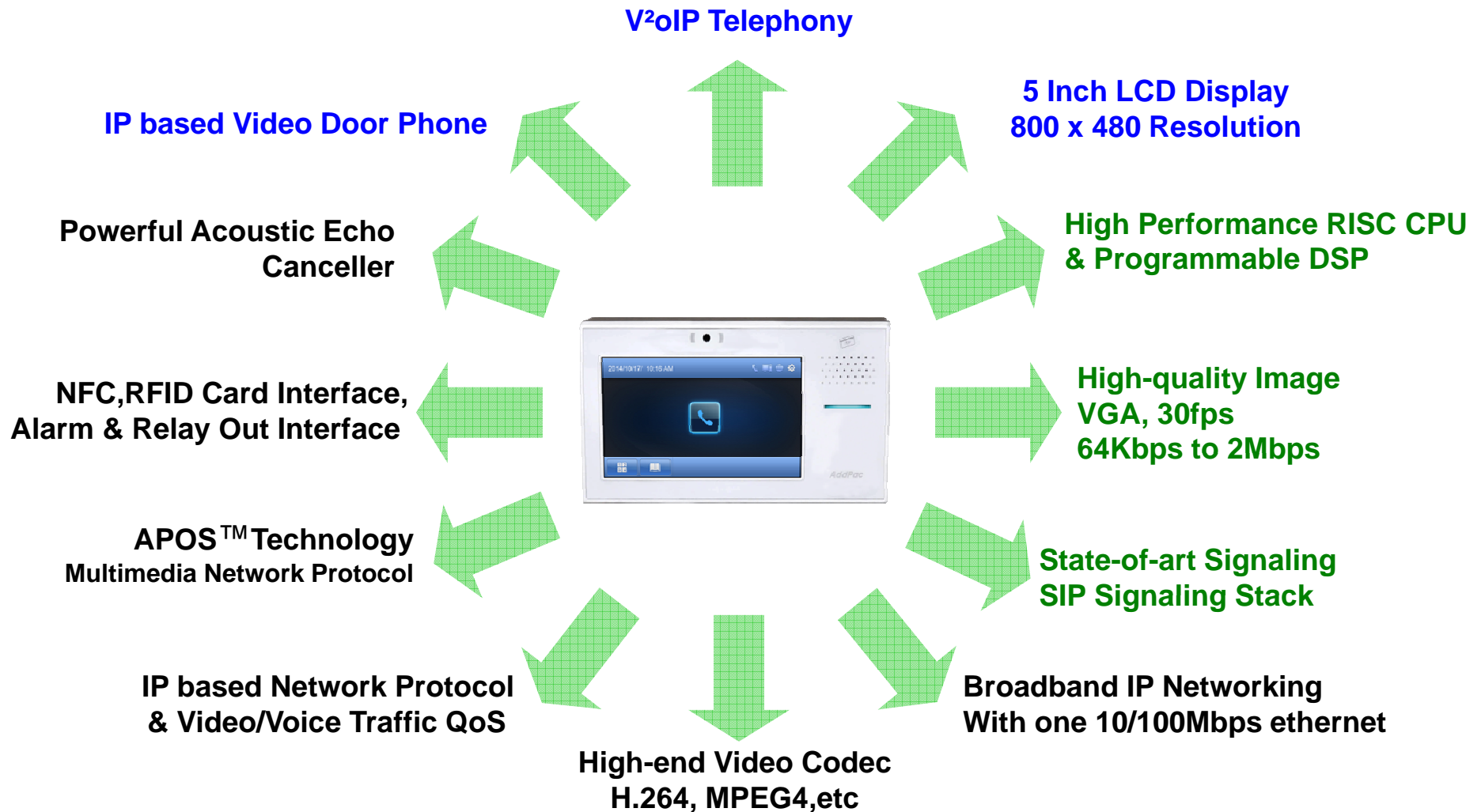
Product Overview

AP-VAC80NFC IP Video Door Phone

- High Performance IP Video Door Phone Solution
- Video Camera, Touch Screen TFT Color LCD, Internal MIC & Speaker
- High Quality 5 Inch LCD, 800 x 480 Video Resolution
- NFC (Near-Field Communication), RFID Interface
- 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-VAC80NFC IP Video Door Phone

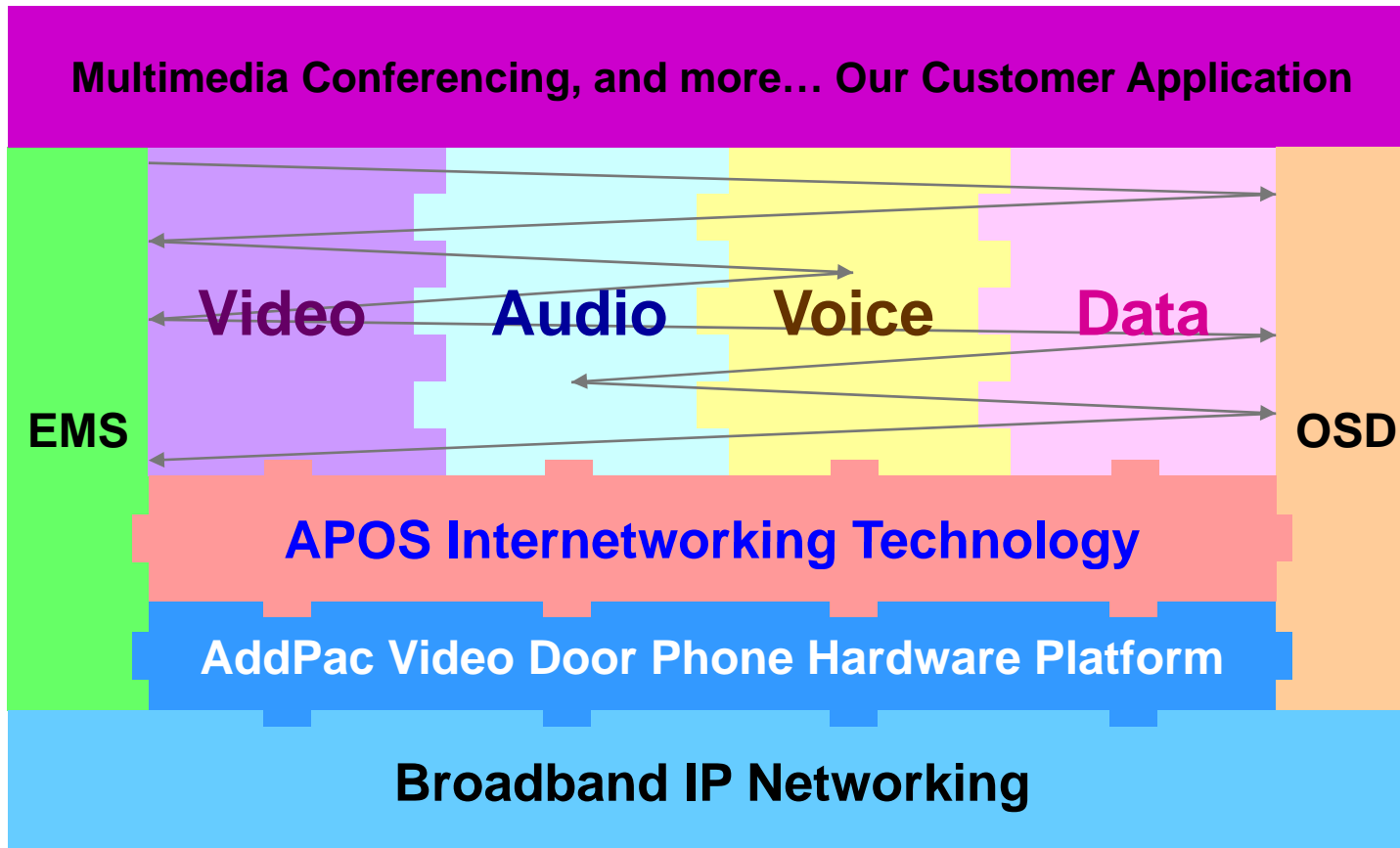


AddPac

www.addpac.com

Multimedia Service

AP-VAC80NFC IP Video Door Phone



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

Hardware Specification

AP-VAC80NFC IP Video Door Phone

RISC
CPU

High-end
DSP

- RISC+DSP Microprocessor Computing Power
- Audio and Voice Interface
 - Internal MIC
 - Internal Speaker
- Video Camera Interface
- TFT Color LCD Interface
 - 5 Inch LCD, 800 x 480 Video Resolution
- Network Interface
 - One(1) 10/100Mbps Fast Ethernet
- RF Card Interface
- Alarm & Relay Out Interface (door open, etc)
- RS232/RS485 Interface
- Power Supply
 - Power over Ethernet (Option)
 - External Power Supply

Hardware Specification

AP-VAC80NFC 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-VAC80NFC IP Video Door Phone

RISC
CPU

High-end
DSP

- **LCD Controller**
 - One-Chip Solution for TFT-LCD
 - Hardware On-Screen Display (OSD)
 - Support resolution up to 240xRGBx320
 - Up to 24-bit RGB888 Digital Interface
 - Resize Function (x 1/16, x8)
 - BT.60/BT.66 Digital YCbCr 4:2:2(8-/16-bit) Interface
- **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-VAC80NFC IP Video Door Phone

RISC
CPU

High-end
DSP

- NFC, RFID Card Sensor
 - Protocol Supported
 - ISO/IEC 14443-3 Type A and B tags
 - ISO/IEC 15693 tags
 - ISO/IEC 18000-3M1 tags
 - NFC Forum tags: Types 1, 2, 3 and 4
 - RF Communication @13.56MHz
 - ISO/IEC 14443 Type A and B in Reader and Card Emulation modes
 - ISO/IEC 15693 in Reader mode
 - ISO/IEC 18092 in Reader and Card Emulation modes
 - MIFARE® Classic compatible (a) (b)
 - Operating modes supported:
 - Reader/Writer
 - Card Emulation (ISO/IEC 14443-3 Type A)
 - Peer-to-Peer

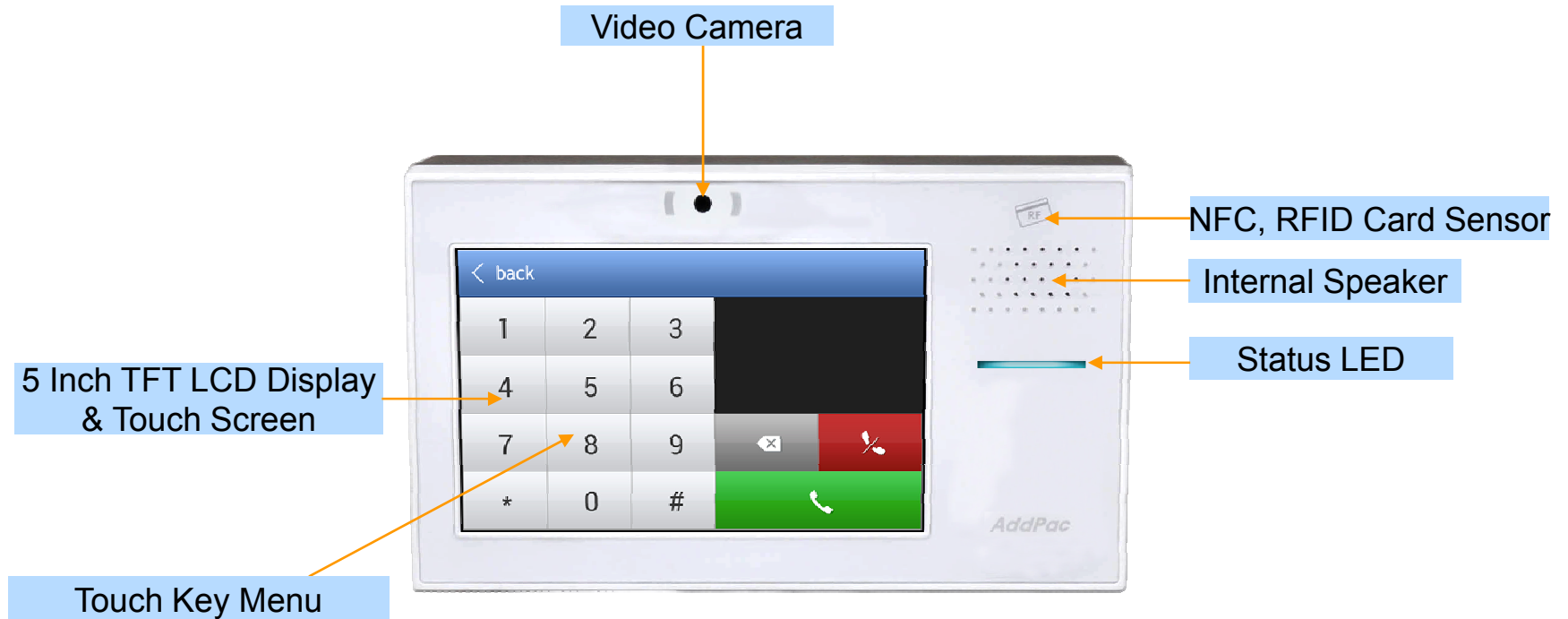
Hardware Specification

AP-VAC80NFC IP Video Door Phone

RISC
CPU

High-end
DSP

Front Side



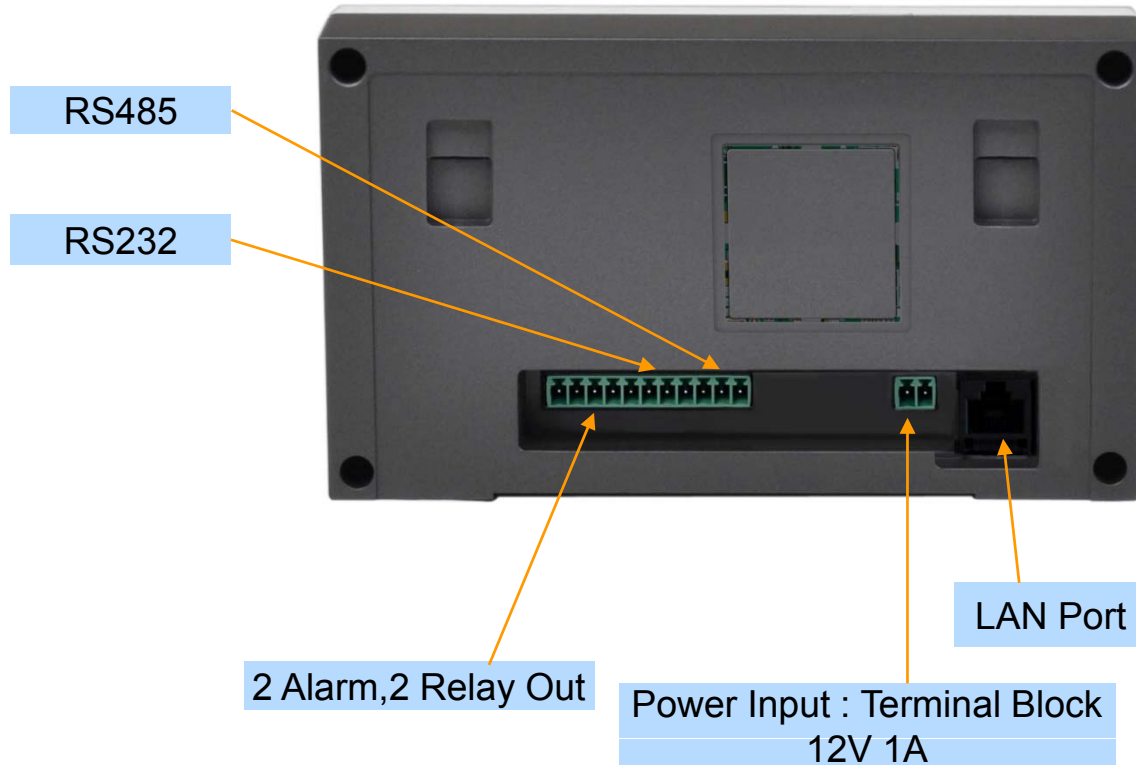
Hardware Specification

AP-VAC80NFC IP Video Door Phone

RISC
CPU

High-end
DSP

Back Side



Hardware Specification

AP-VAC80NFC IP Video Door Phone

RISC
CPU

High-end
DSP

Power Supply

Terminal Block



12V 1A Power Adaptor

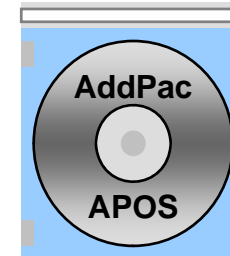
Example



Software Service

AP-VAC80NFC 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-VAC80NFC IP Video Door Phone

- **High-performance Video Codec Support**
 - H.264, 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 2Mbps 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-VAC80NFC IP Video Door Phone

- **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**



Smart Web Manager (Example)

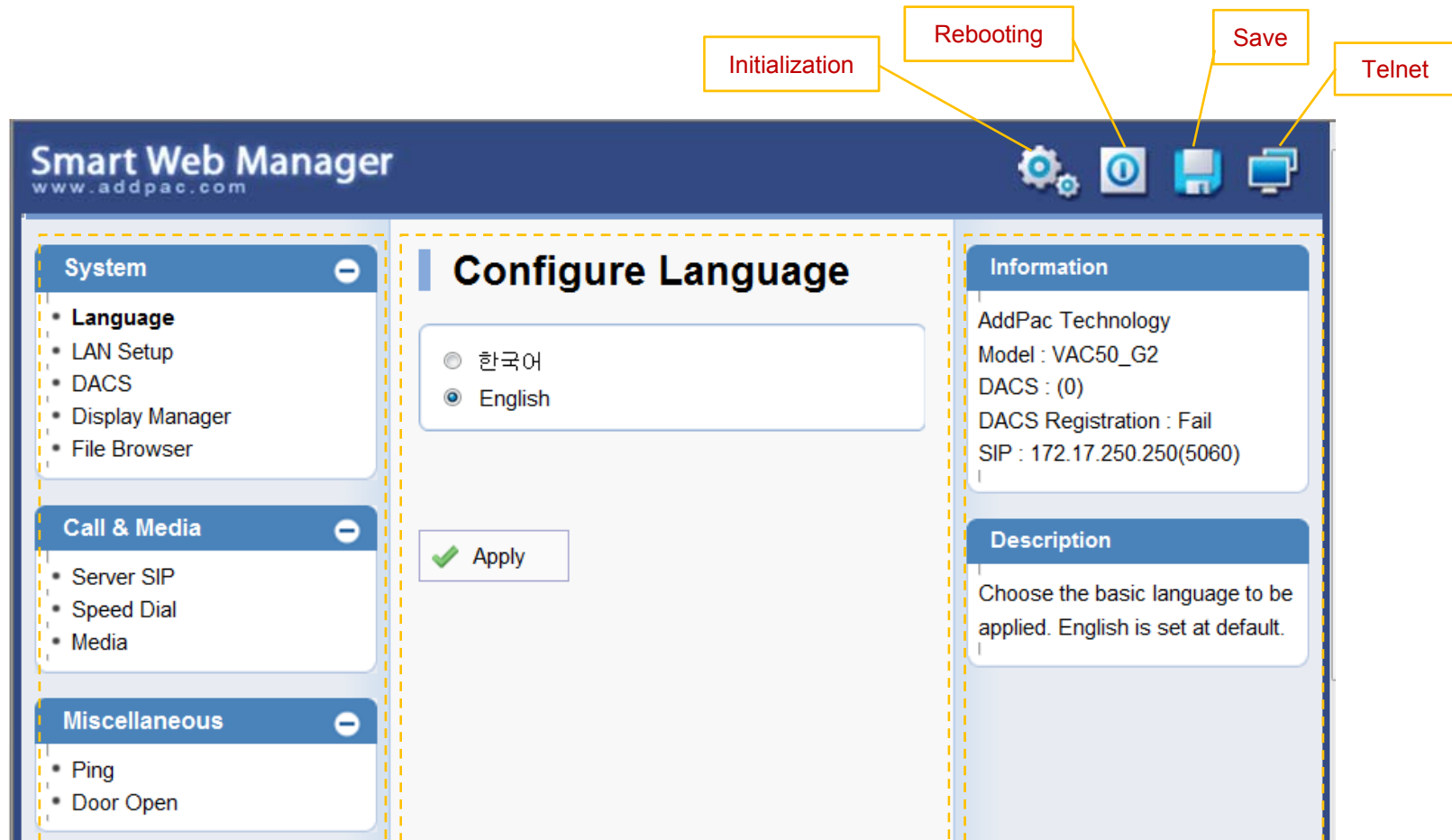
Smart Web Manager

AP-VAC80NFC 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-VAC80NFC IP Video Door Phone



Menu Tree

Output Screen after
Menu Select

System Information and
Help Message

Smart Web Manager : SIP configuration

AP-VAC80NFC 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 Server address and Port (default 5060)

Secondary SIP Server Server address and Port (default 5060)

Local Domain Name (SIP userpart of authentication)

SIP Signaling Port (default 5060, between 1 to 65535)

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

Session Re-Fresh INVITE UPDATE

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

Min-SE (in seconds, default 1800, between 30 to 86400)

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

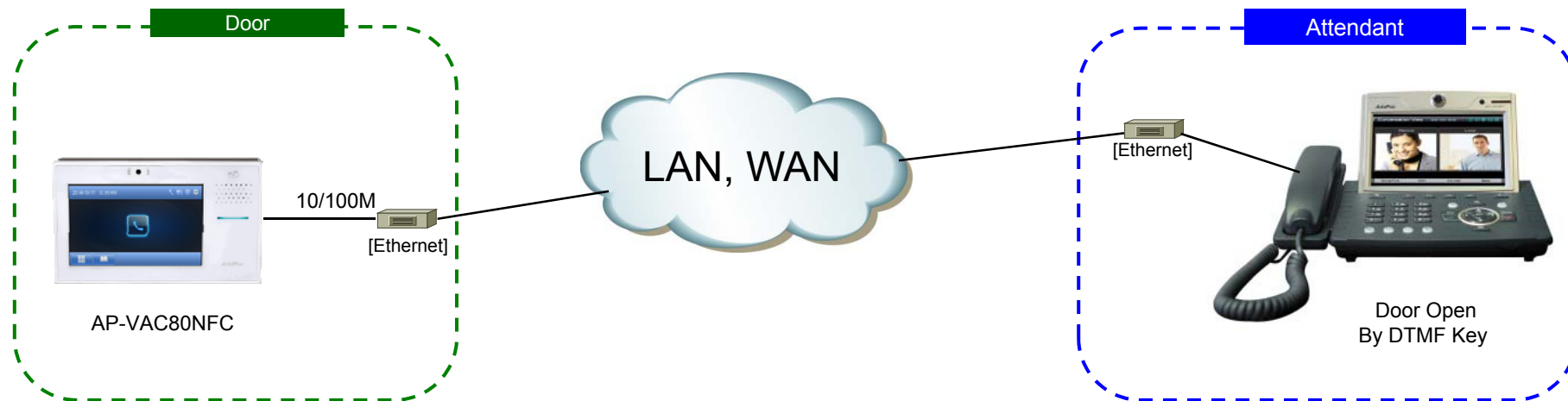
Extension Extension Number, Password

AP-VAC80NFC IP Video Door Phone

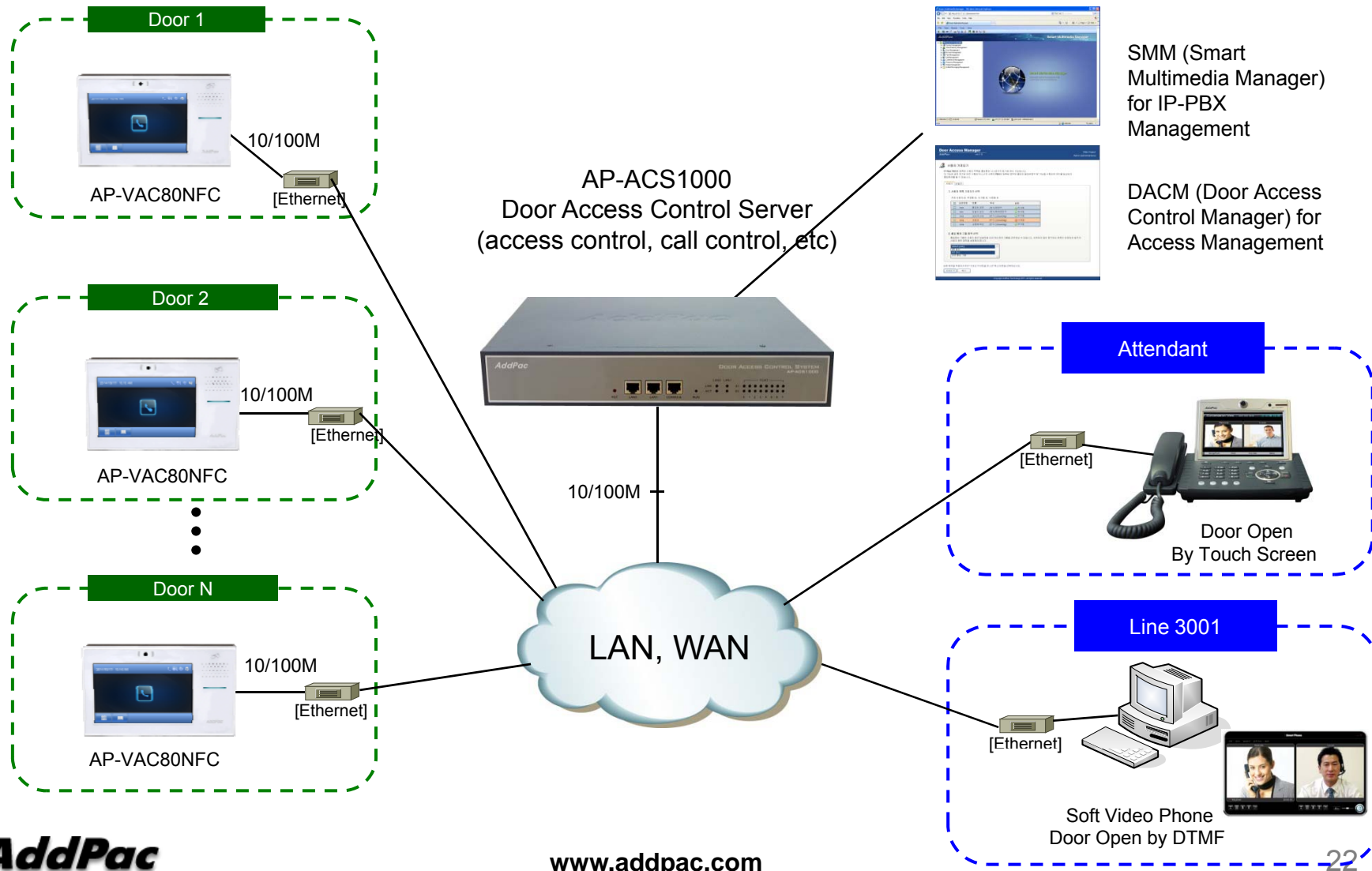
Application Area

- 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

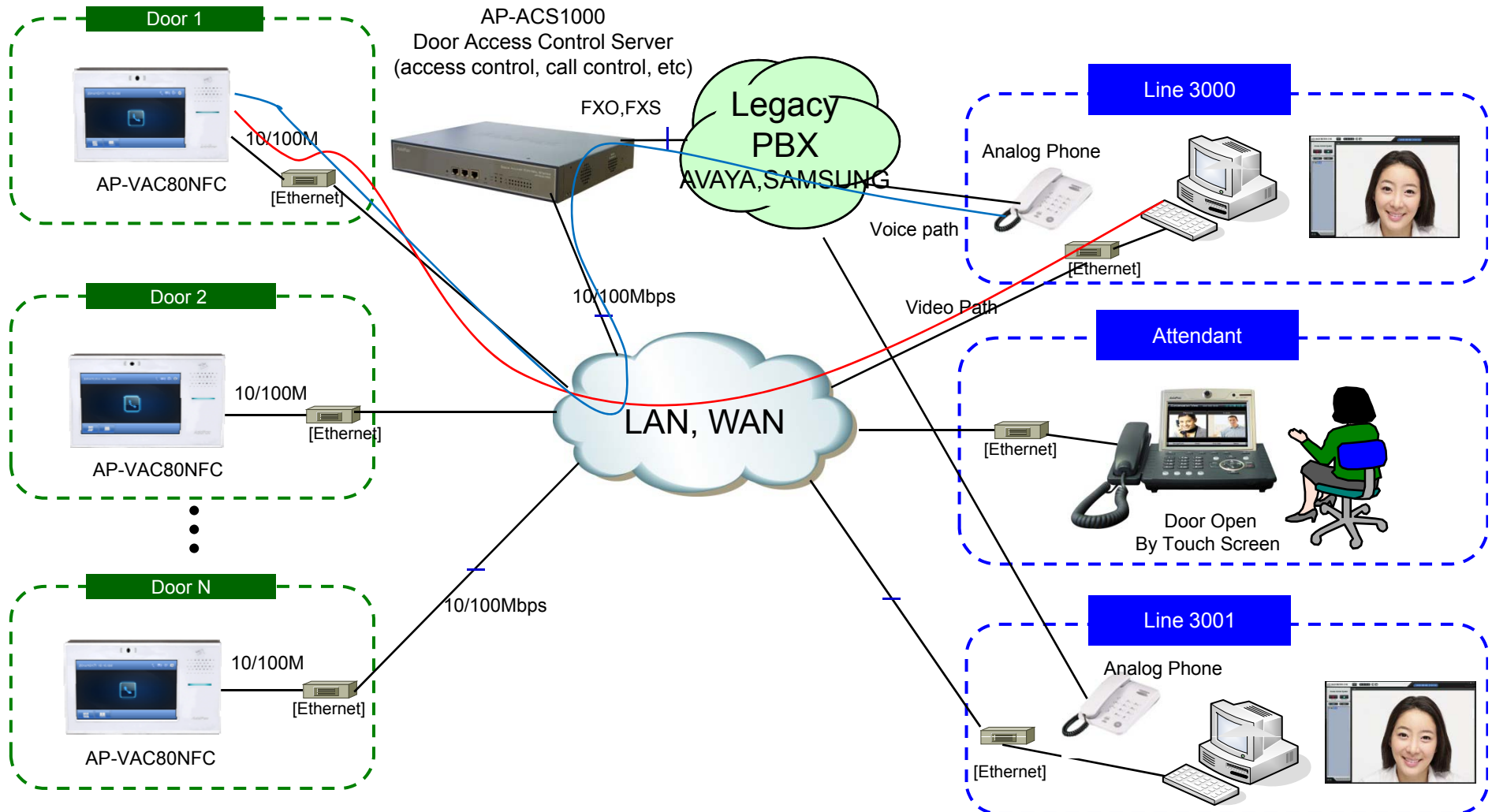
Point-to-Point Connection (Simple Appl.)



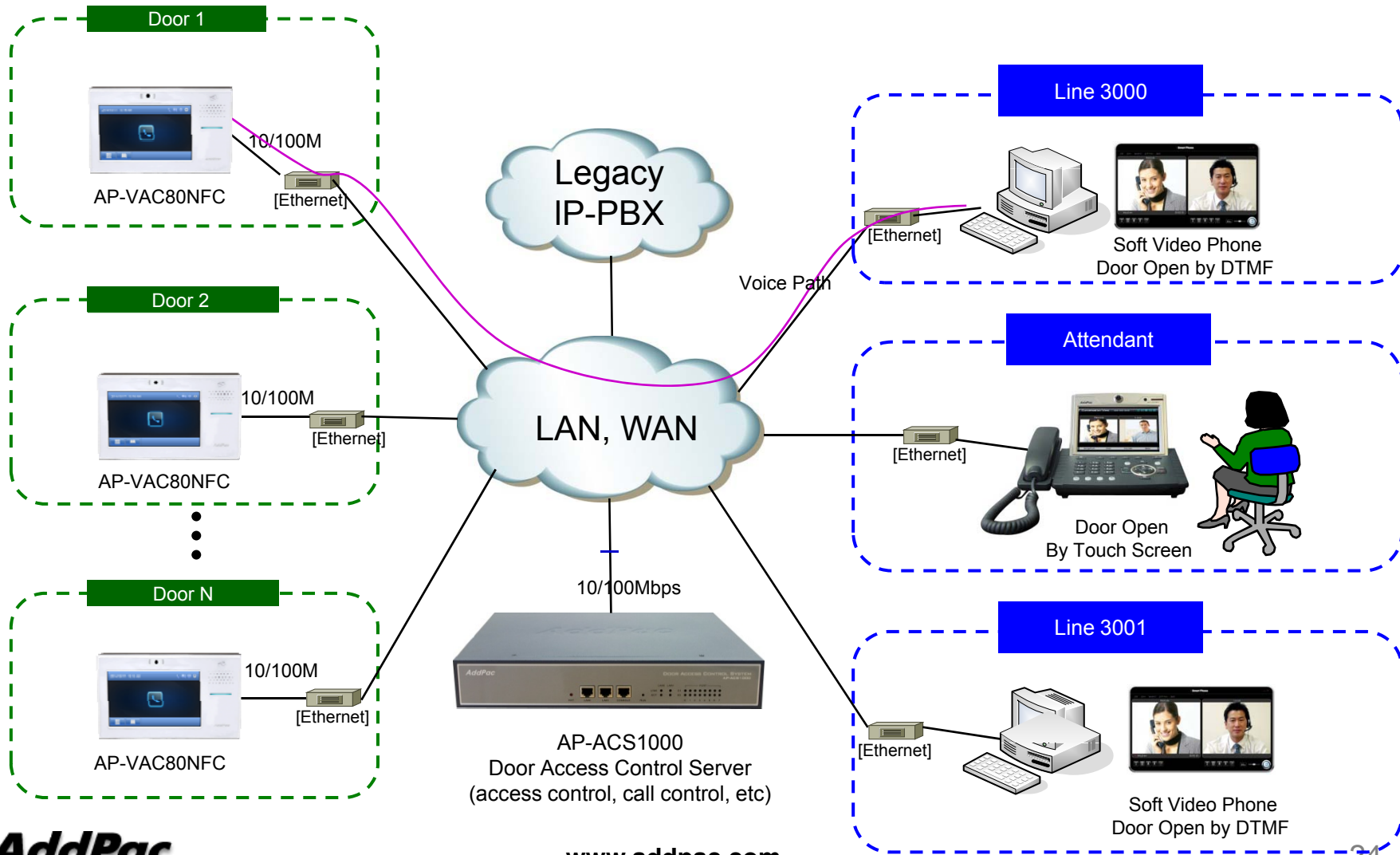
Integrated Door Access Control and Call Control (All AddPac Solution)



Legacy PBX Environment



Legacy IP-PBX Environment



Ordering Information

- **AP-VAC80NFC IP Video Door Phone Hardware**
 - AP-VAC80NFC Video Phone Main Body
 - RISC Microprocessor with High-end Programmable DSP Architecture
 - 5 Inch LCD, Built In Camera
 - NFC, RFID Card Interface
 - 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-VAC80NFC**
- **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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