

AP-VAC30N

HD IP Video Intercom

High Performance Auto Focus HD IP Video Intercom Solution



Preliminary Product Overview

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

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
- Smart Web Manager
- Application Area
- Ordering Information



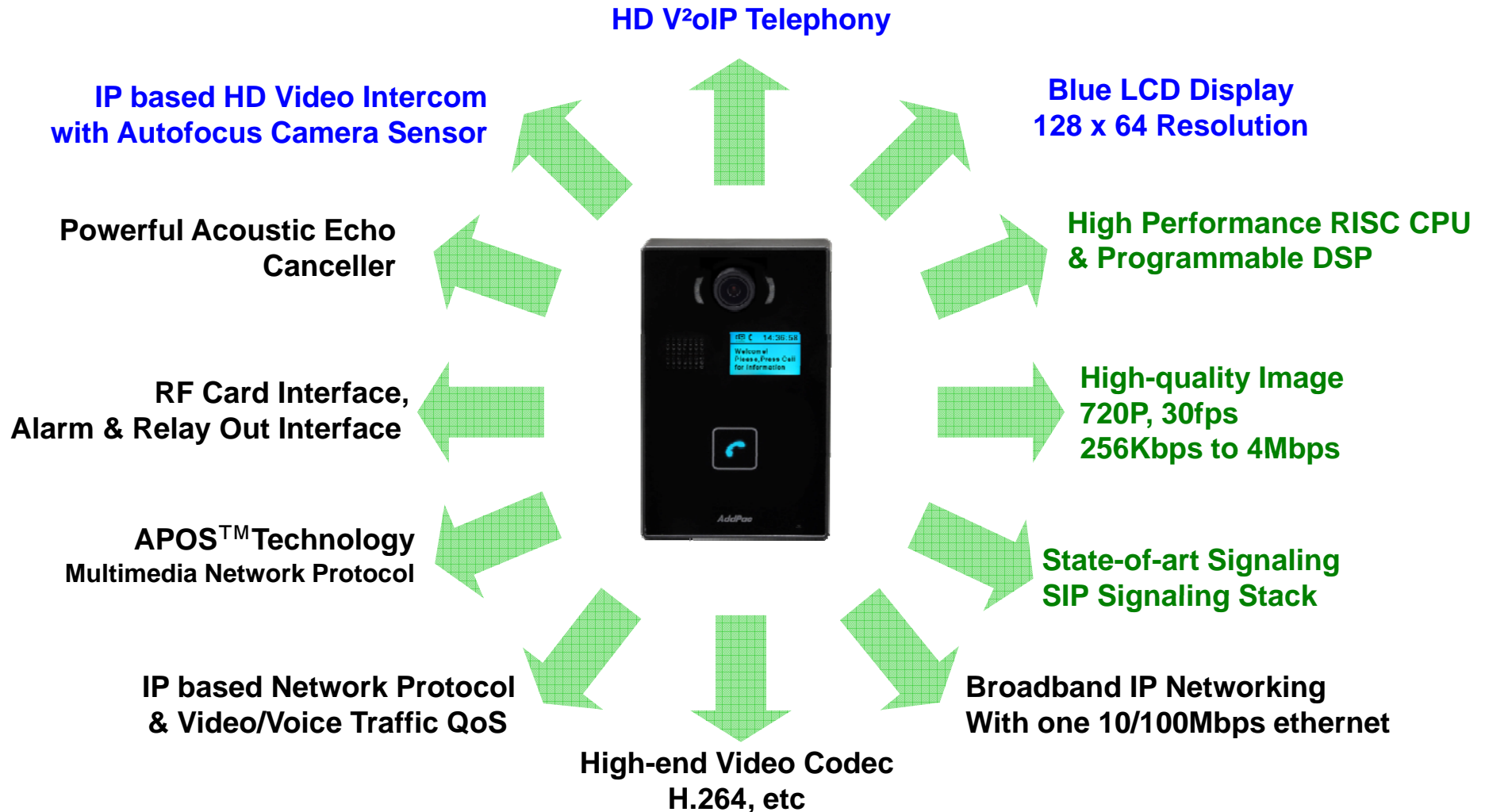
Product Overview

AP-VAC30N HD IP Video Intercom

- High Performance HD IP Video Intercom Solution
- Call Button, TFT Color LCD, Internal MIC & Speaker
- AutoFocus Digital Wide Dynamic Range MegaPixel Sony CMOS Camera Sensor
- H.264 720P HD Video Codec Support
- Blue LCD Display, 128 x 64 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-VAC30N HD IP Video Intercom

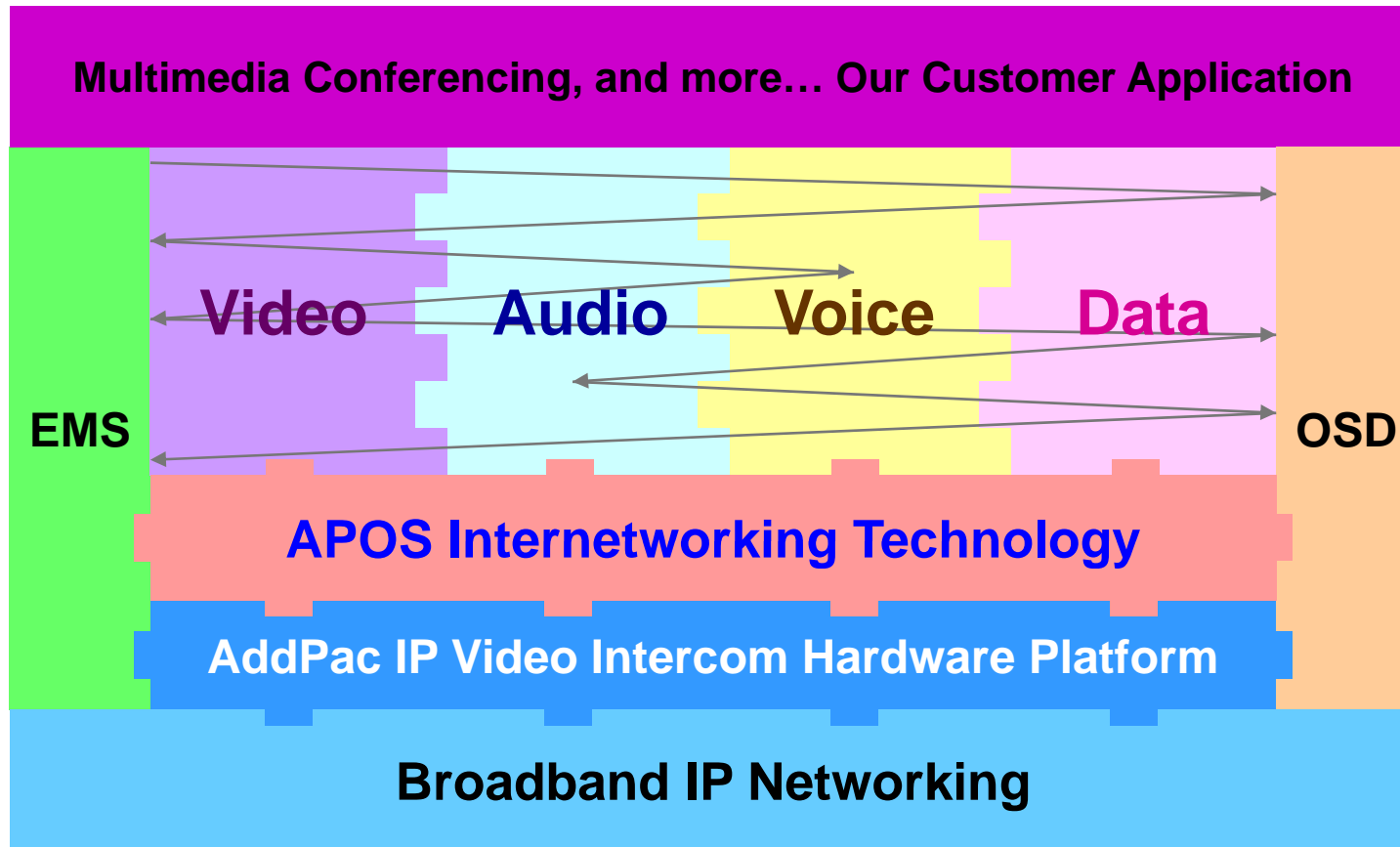


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Multimedia Service

AP-VAC30N HD IP Video Intercom



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

Hardware Specification

AP-VAC30N HD IP Video Intercom

RISC
CPU

High-end
DSP

- RISC+DSP Microprocessor Computing Power
- Audio and Voice Interface
 - Internal MIC
 - Internal Speaker
 - Call Button (Touch Sensor)
- Auto Focus HD Video Camera Image Sensor
- Blue LCD Display
 - Blue LCD, 128 x 64 Video Resolution
- Network Interface
 - One(1) 10/100Mbps Fast Ethernet
- Alarm & Relay Out Interface (door open, etc)
- External RCA Audio Line Out and MIC In (back side)
- RS232/RS485 Interface (Option)
- Power Supply
 - Power over Ethernet (Option)
 - External Power Supply

Hardware Specification

AP-VAC30N HD IP Video Intercom

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-VAC30N HD IP Video Intercom

RISC
CPU

High-end
DSP

- LCD Controller
 - Display Type : FSTN, Positive
 - Built-in Controller : ST7567
 - Blue LED Backlight
 - Active Area : 35.48(W) x 22.38(H)
 - Number of Dots : 128 x 64
- HD Video Camera
 - 1/2.9" 2.1 MegaPixel Sony CMOS Sensor
 - Min.illumination of 0.0001 Lux (Sens-up)
 - 1080P@30fps, [AHD2.0 / 720P@30fps](#), AHD1.0
 - True Day & Night, D-WDR : Digital Wide Dynamic Range
 - 2+3 DNR (Digital Noise Reduction) Function
 - Sens-Up : x2~x30
 - Auto Focus Lens

Hardware Specification

AP-VAC30N HD IP Video Intercom

RISC
CPU

High-end
DSP

Front Side



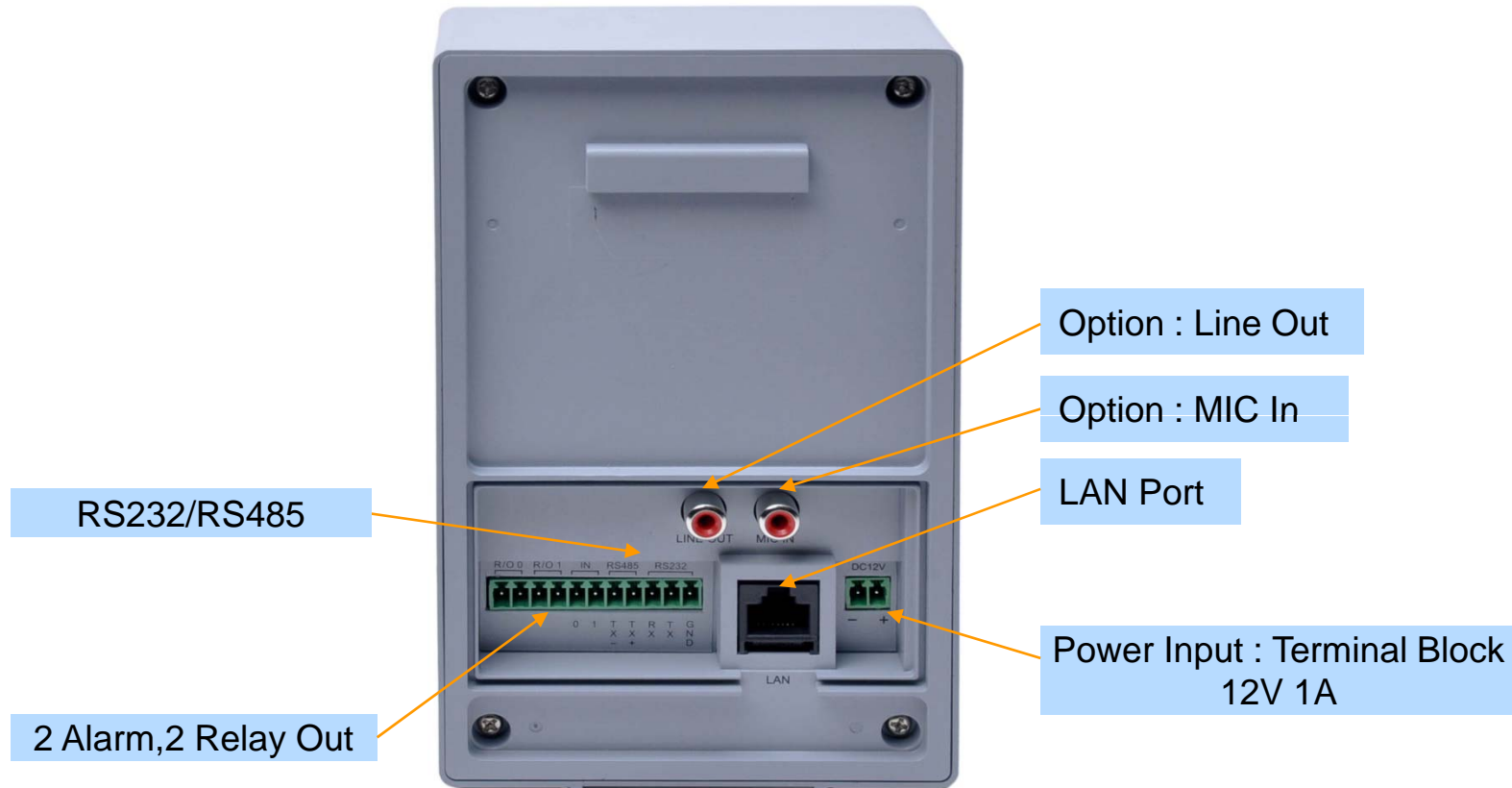
Hardware Specification

AP-VAC30N HD IP Video Intercom

RISC
CPU

High-end
DSP

Back Side



Hardware Specification

AP-VAC30N HD IP Video Intercom

RISC
CPU

High-end
DSP

Back Side



Wall Mount Bracket

Rubber Cover for light water resistance

Hardware Specification

AP-VAC30N HD IP Video Intercom

RISC
CPU

High-end
DSP

Power Supply

Terminal Block



12V 1A Power Adaptor

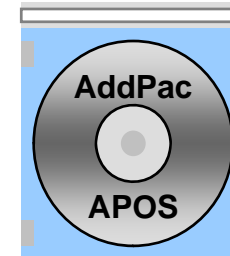
Example



Software Service

AP-VAC30N HD IP Video Intercom

- 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-VAC30N HD IP Video Intercom

- High-performance Video Codec Support
 - H.264, MPEG4, etc
- Image Resolution Support
 - Video Encoding : 720P(1280x720), VGA(640x480), QVGA(320x240)
- Up to 30fps with HD Resolution
- Still Image Encoding (JPEG) for Receipt : Option
- 256Kbps to 4Mbps 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-VAC30N HD IP Video Intercom

- 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



Smart Web Manager (Example)

Smart Web Manager

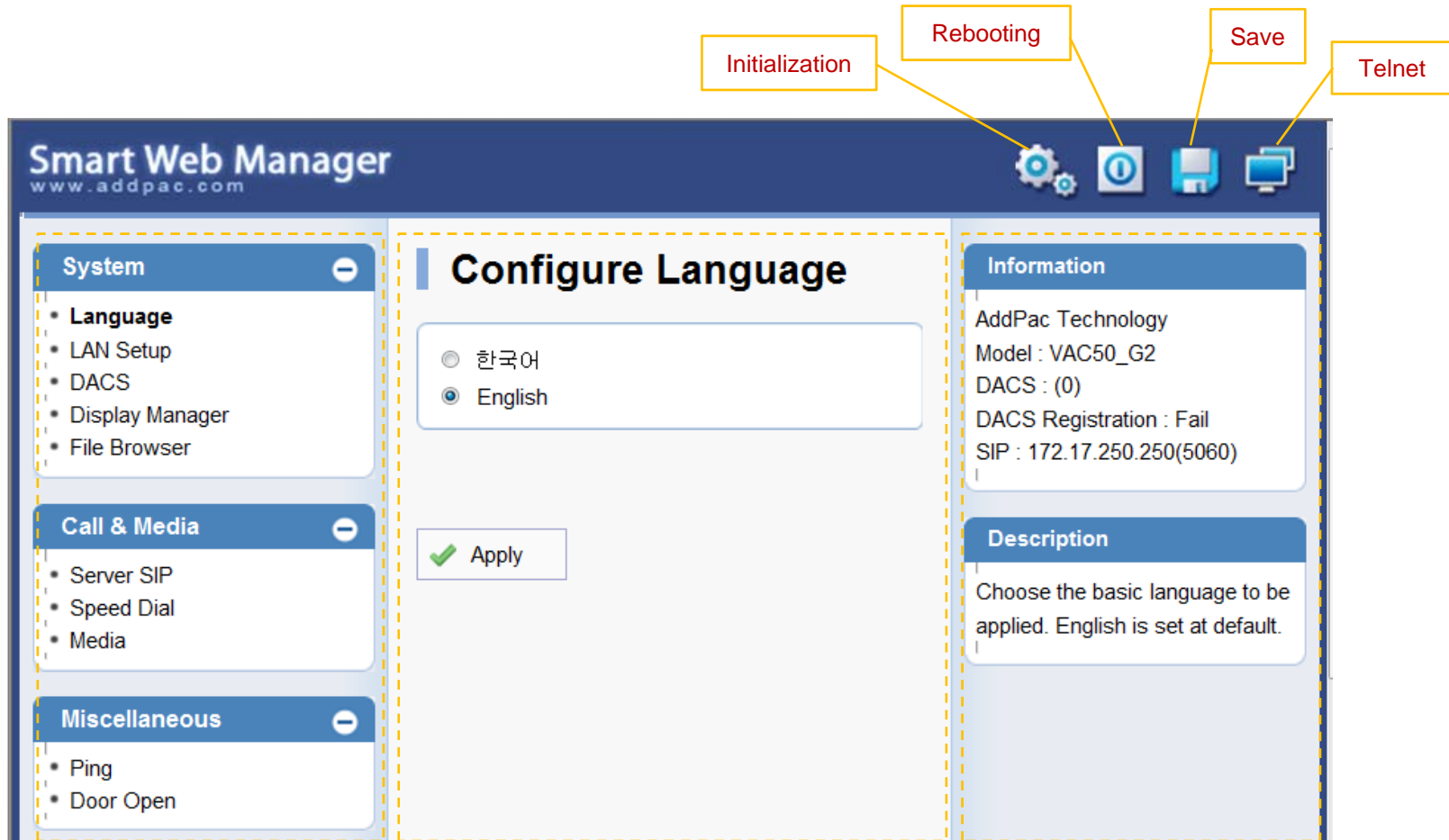
AP-VAC30N HD IP Video Intercom

- 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-VAC30N HD IP Video Intercom



Menu Tree

Output Screen after
Menu Select

System Information and
Help Message

Smart Web Manager : SIP configuration

AP-VAC30N HD IP Video Intercom

SIP (Session Initiation Protocol)

SIP server check if exist.

SIP Basic Information Display

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

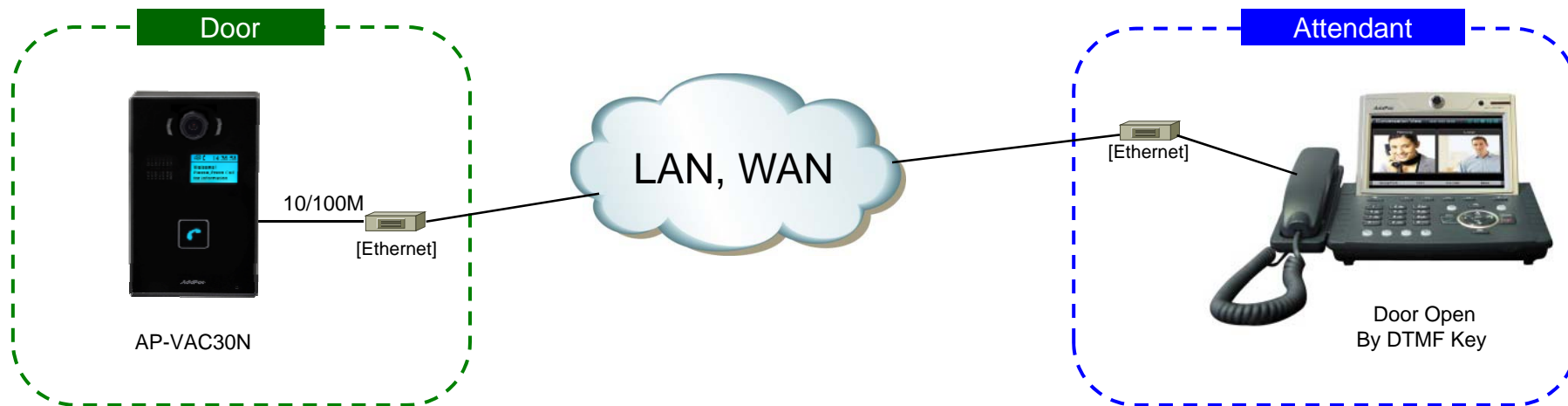
Use SIP Server	<input checked="" type="radio"/> Yes <input type="radio"/> No
Primary SIP Server	<input type="text" value="172.17.250.250"/> <input type="text" value="5060"/> Server address and Port (default 5060)
Secondary SIP Server	<input type="text"/> <input type="text" value="5060"/> Server address and Port (default 5060)
Local Domain Name	<input type="text"/> (SIP userpart of authentication)
SIP Signaling Port	<input type="text" value="5060"/> (default 5060, between 1 to 65535)
Register Expiration	<input type="text" value="60"/> (in seconds, default 60, between 10 to 86400)
Session Re-Fresh	<input checked="" type="radio"/> INVITE <input type="radio"/> UPDATE
Session Expire Time	<input type="text" value="1800"/> (in seconds, default 1800, between 30 to 86400, 0 = disable)
Min-SE	<input type="text" value="1800"/> (in seconds, default 1800, between 30 to 86400)
Extension	<input type="text" value="1020"/> <input type="text"/> Extension Number, Password

AP-VAC30N HD IP Video Intercom

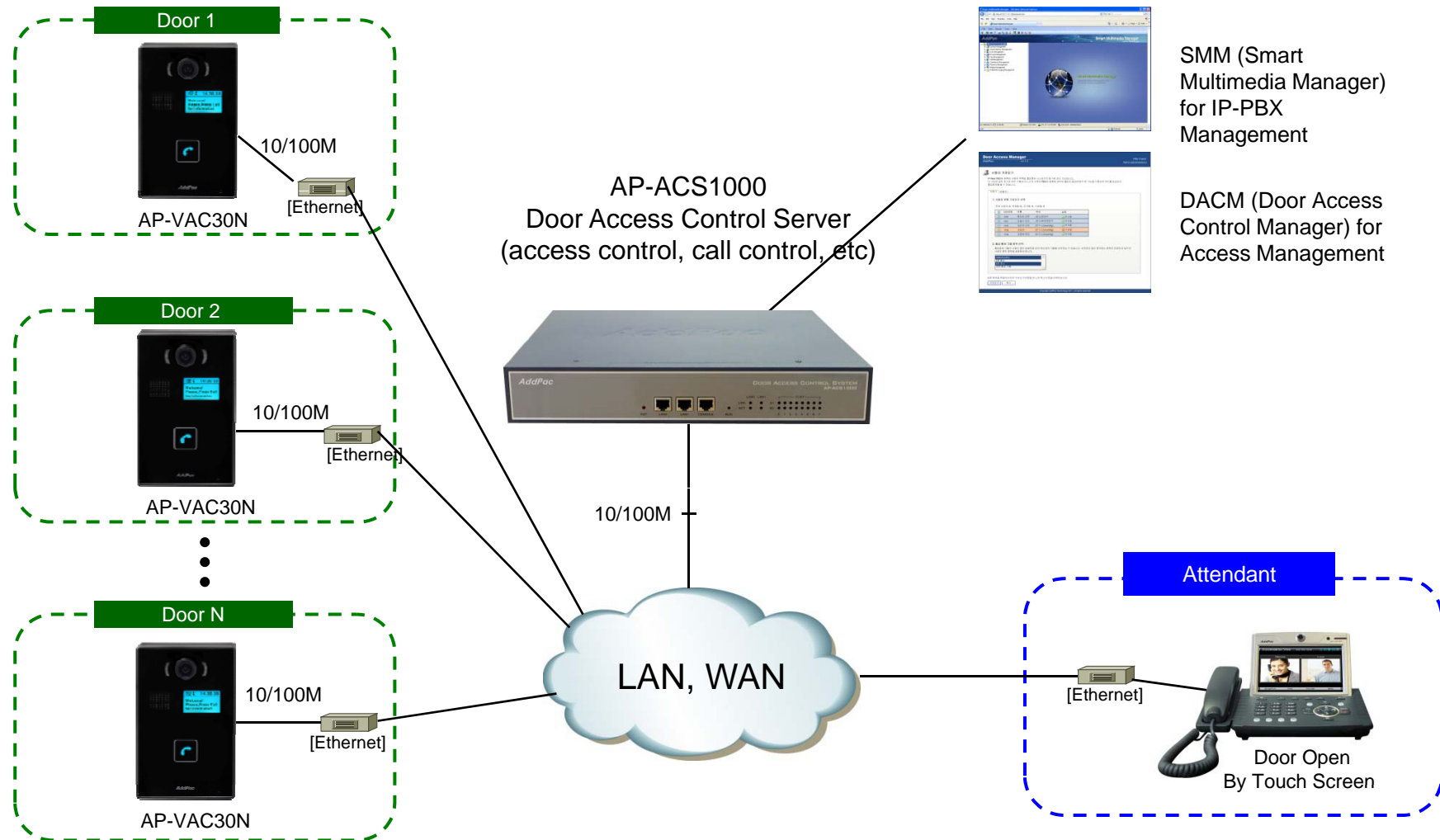
Application Area

- Point-to-Point Application (Simple Application)
- Point-to-Multipoint Application
 - All AddPac Solution
(Call Manager + Door Access Control Server)
- Point-to-Multipoint Application + Still Image

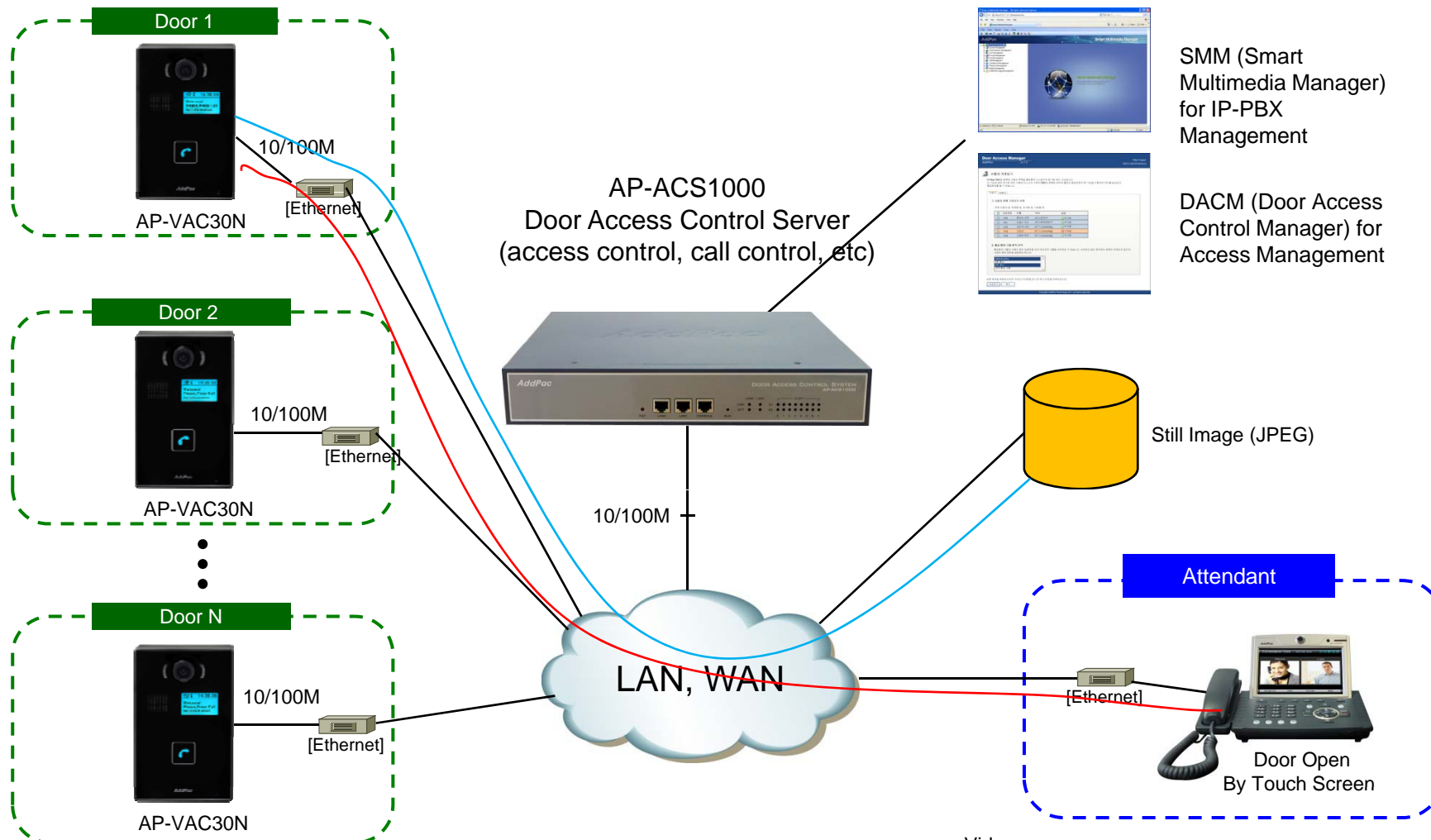
Point-to-Point Connection (Simple Appl.)



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



Point-to-Multipoint Video Service + Still Image Service



SMM (Smart Multimedia Manager) for IP-PBX Management

DACM (Door Access Control Manager) for Access Management

Still Image (JPEG)

Attendant

Door Open By Touch Screen

— Video
— Still Image (JPEG) for Receipt

Ordering Information

- **AP-VAC30N HD IP Video Intercom Hardware**
 - AP-VAC30N HD IP Video Intercom Main Body
 - RISC Microprocessor with High-end Programmable DSP Architecture
 - Blue LCD, Built In AutoFocus HD Camera
 - Internal MIC, Internal Speaker
 - 1-ports 10/100Mbps Fast Ethernet
 - PoE Interface (Option)
 - Including Network Cable Set & Ext. Power Supply, etc.
- **Built-in APOS Internetworking Software for AP-VAC30N**
- **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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