

AP-NRC100

Network RF Controller for Smart Transportation

High Performance Network RF Controller Solution for Car Entrance



Preliminary Product Overview

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

AddPac

AddPac Technology

Sales and Marketing

www.addpac.com

Contents

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Product Overview

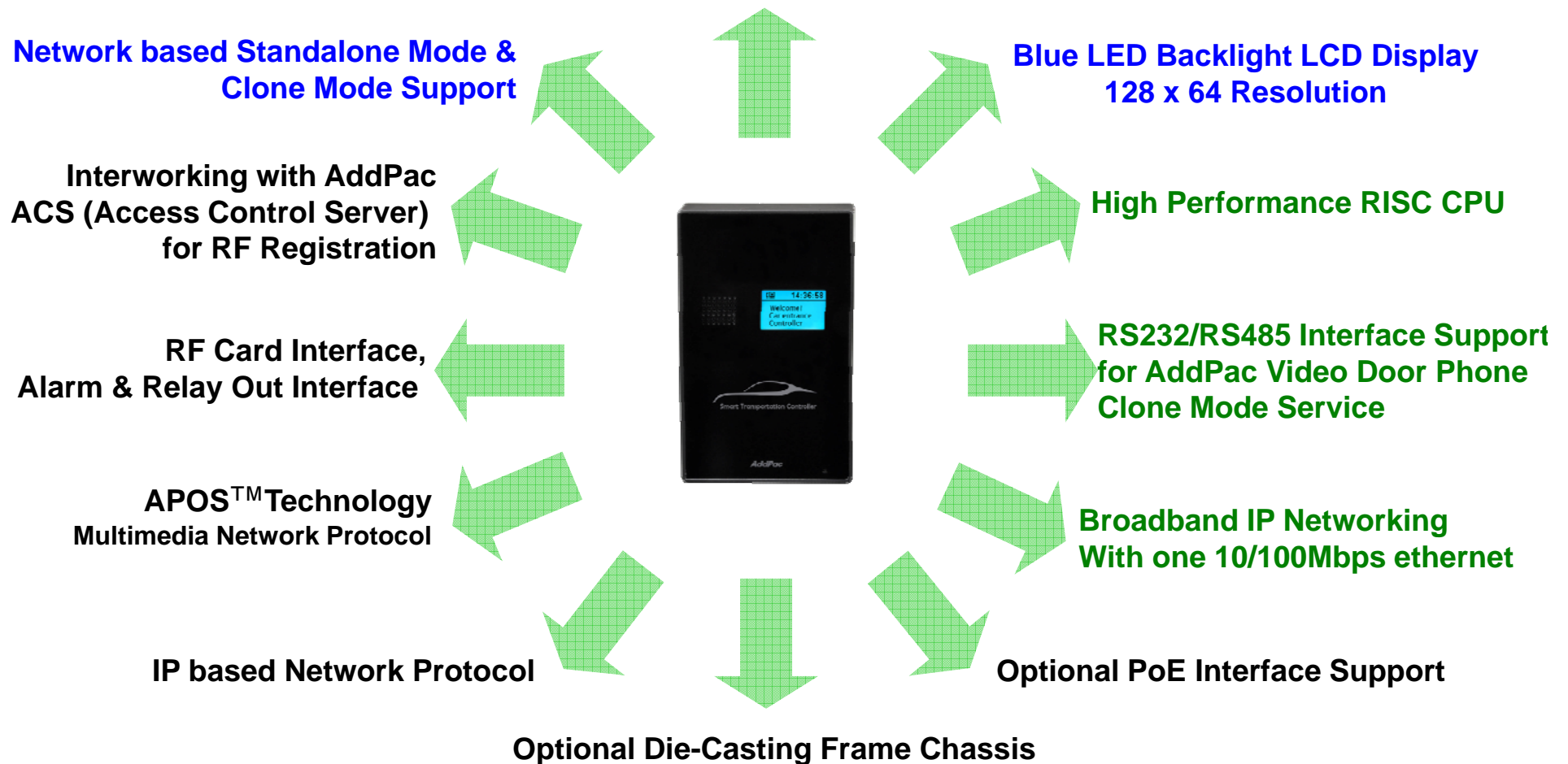
AP-NRC100 Network RF Controller for Smart Transportation

- High Performance RF Controller Solution for Smart Transportation
- Network(LAN) RF Controller Solution : Standalone Mode
- RS232/RS485 Interface Support for AddPac IP Video Door Phone Interworking : Clone Mode
- Interworking with AddPac ACS(Access Control Server) for RF Registration
- RF Controller Interface using high performance external UHF antenna
- Internal Speaker
- Blue LED Backlight LCD, 128 x 64 Display Resolution
- One(1) 10/100Mbps Fast Ethernet
- PoE(Power over Ethernet) Support
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Firmware Upgradeable Architecture
- Advanced Voice QoS Mechanism
- **Die-casting Frame Chassis : Option***

Product Highlights

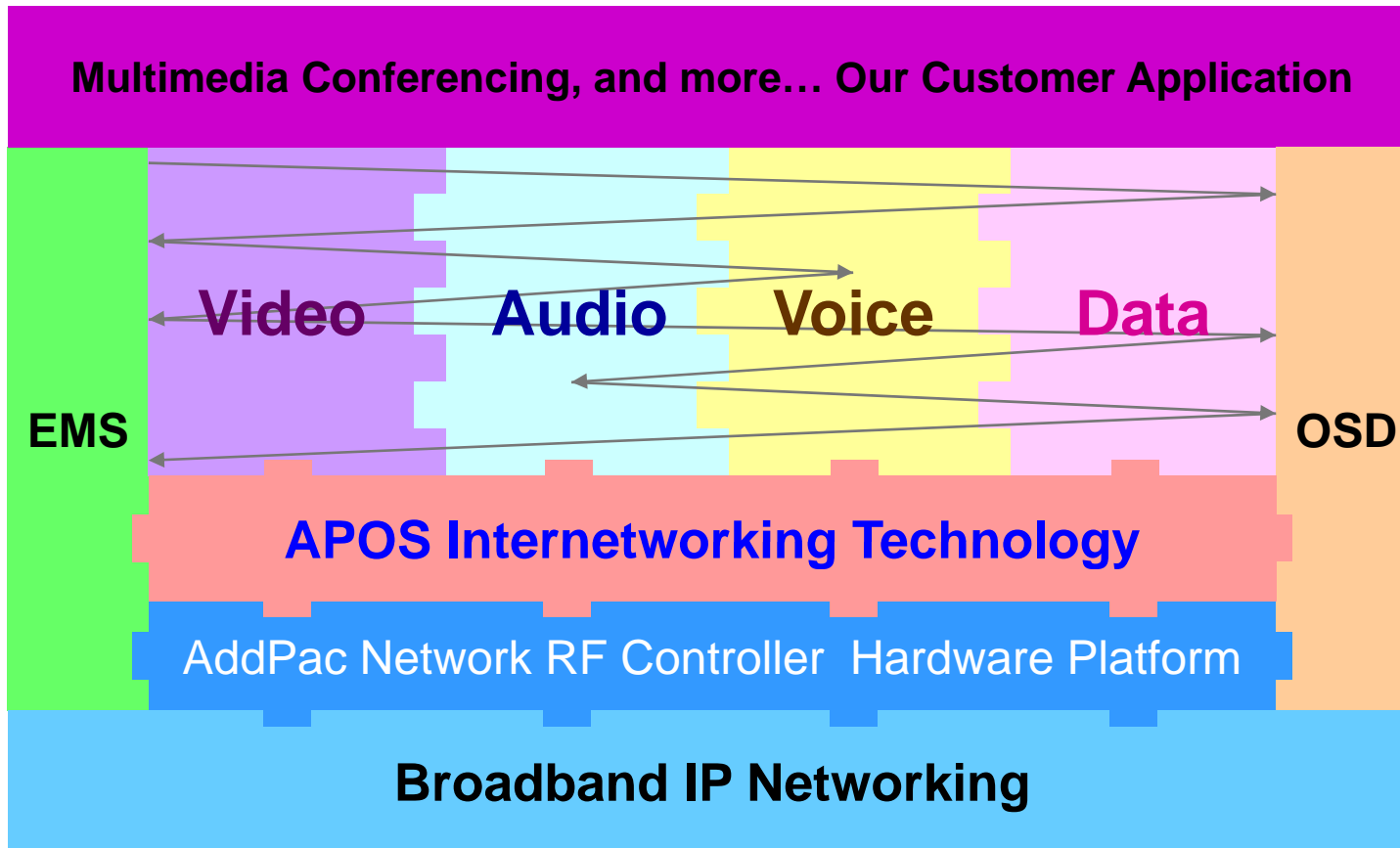
AP-NRC100 Network RF Controller for Smart Transportation

Network based RF Controller using External UHF Antenna



Multimedia Service

AP-NRC100 Network RF Controller for Smart Transportation



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

Hardware Specification

AP-NRC100 Network RF Controller for Smart Transportation



RISC
CPU

RF
Module

- RISC Microprocessor Computing Power
- Audio and Voice Interface
 - Internal Speaker
- Blue LED Backlight LCD Interface
 - 128 x 64 Video Resolution
- Network Interface
 - One(1) 10/100Mbps Fast Ethernet
- RF Interface for Car Entrance Control
- Alarm & Relay Out Interface (door open, etc)
- RS232/RS485 Interface
- Power Supply
 - Power over Ethernet (Option)
 - External Power Supply
- Steel Chassis : Option

Hardware Specification

AP-NRC100 Network RF Controller for Smart Transportation

RISC
CPU

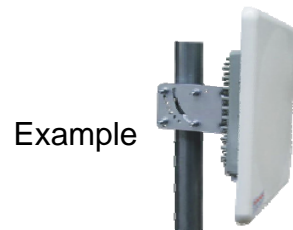
- **LCD Controller**
 - Display Type : FSTN, Positive
 - Built-in Controller : ST7567
 - Blue LED Backlight
 - Active Area : 35.48(W) x 22.38(H)
 - Number of Dots : 128 x 64
- **Speaker**
 - Impedance : 8 +-15%ohm at 1kHz, 1.0 Vrms
 - Sound Pressure : 90 +- 3dB at 0.1W/10 CM
at 800Hz, 1.0kHz, 1.2kHz, 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
- **PoE(Power over Ethernet)**
 - IEEE802.3af compliant
 - Input voltage range 36V to 57V
 - Short-circuit Protection

Hardware Specification

AP-NRC100 Network RF Controller for Smart Transportation



- Smart Transportation Interface (Car Entrance Control Interface)
 - Protocol Supported
 - ISO18000-6C, EPC class1 Gen 2
 - RF Specification
 - Frequency Range 860–960 MHz
 - Modulation System PR-ASK
 - Kind of antenna Circular Polarization Antenna
 - Air Protocol ISO18000-6C, EPC Global Class1 GEN
 - Type FHSS
 - Read Range <5m (dependent on reader placement and Tag type)
 - Channel Number 6 Channel



Example

External UHF Antenna Interface



Hardware Specification

AP-NRC100 Network RF Controller for Smart Transportation



Front Side

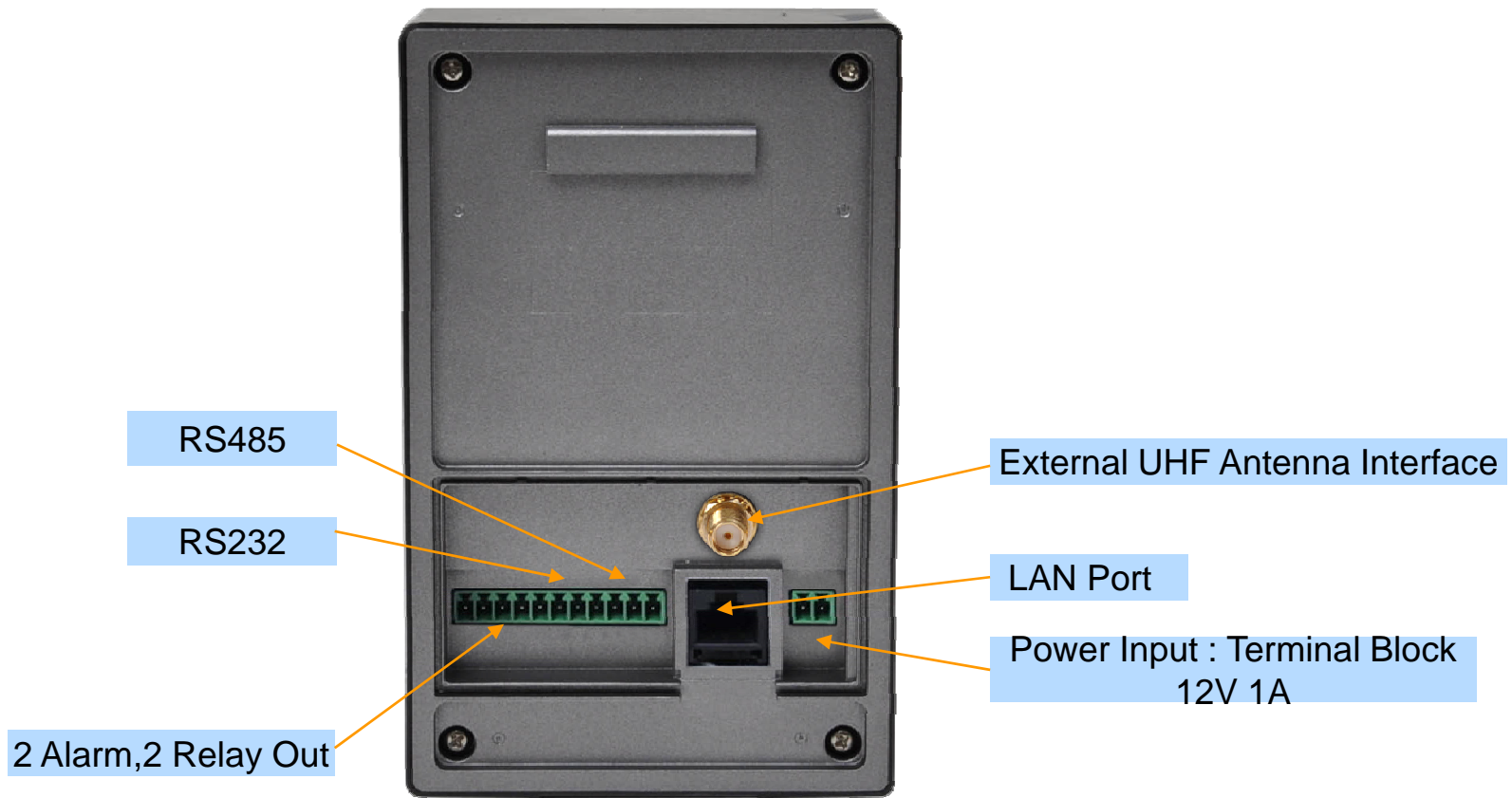


Hardware Specification

AP-NRC100 Network RF Controller for Smart Transportation

RISC
CPU

Back Side



Hardware Specification

AP-NRC100 Network RF Controller for Smart Transportation

RISC
CPU

Back Side



Wall Mount Bracket

Rubber Cover for light waterproof

Hardware Specification

AP-NRC100 Network RF Controller for Smart Transportation

RISC
CPU

High-end
DSP

Power Supply

Terminal Block



12V 1A Power Adaptor

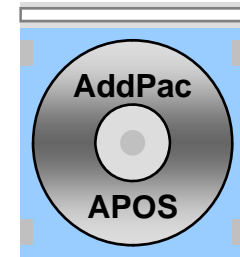
Example



Software Service

AP-NRC100 Network RF Controller for Smart Transportation

- Built-in AddPac APOS Internetworking Software
 - Scalability, Functionality, and Stability Features
- Firmware Upgradeable DSP Architecture
- Network RFID Control Function Support
- RS232/RS485 based RFID Control Function Support
 - : AddPac Video Door Phone Clone Mode Service
- Industry Standard IP based Network Protocol Features





Smart Web Manager (Example)

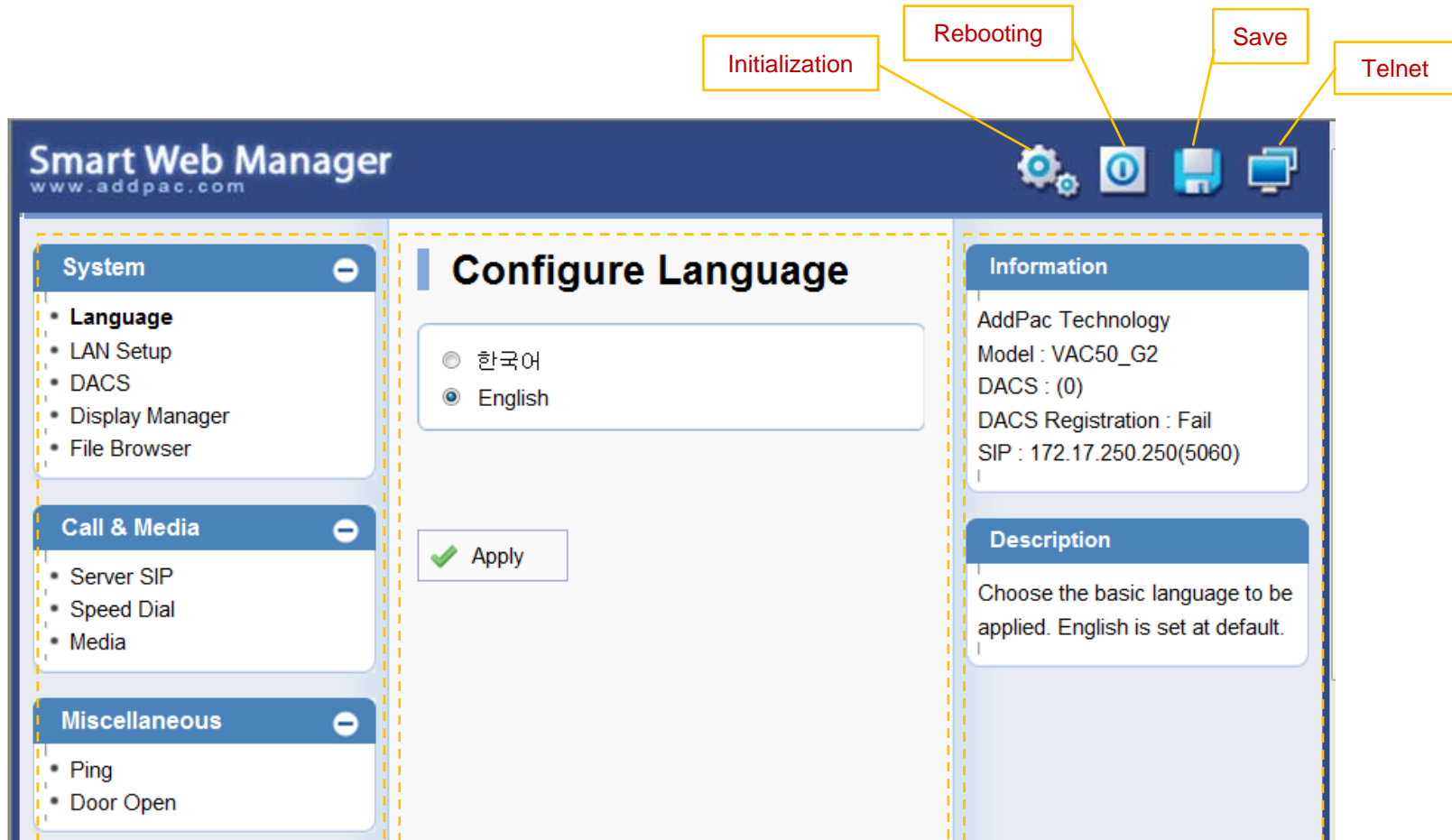
Smart Web Manager

AP-NRC100 Network RF Controller for Smart Transportation

- Main Screen
- System
 - Language
 - LAN Setup
 - DACS
 - Display
 - File Browser
- Miscellaneous
 - Door Control and Test
 - Network Test

Smart Web Manager : Main Screen

AP-NRC100 Network RF Controller for Smart Transportation



Menu Tree

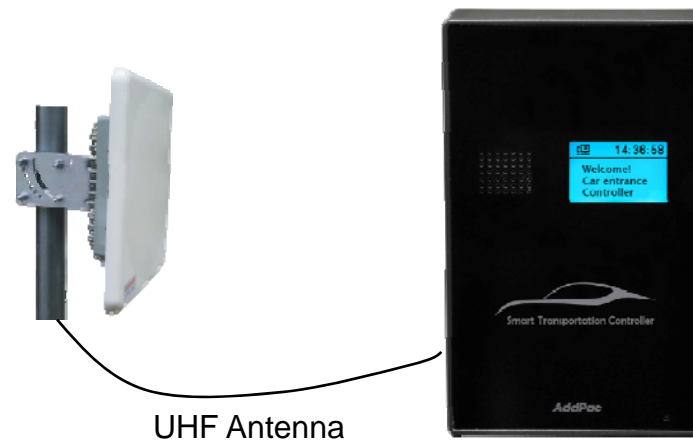
Output Screen after
Menu Select

System Information and
Help Message

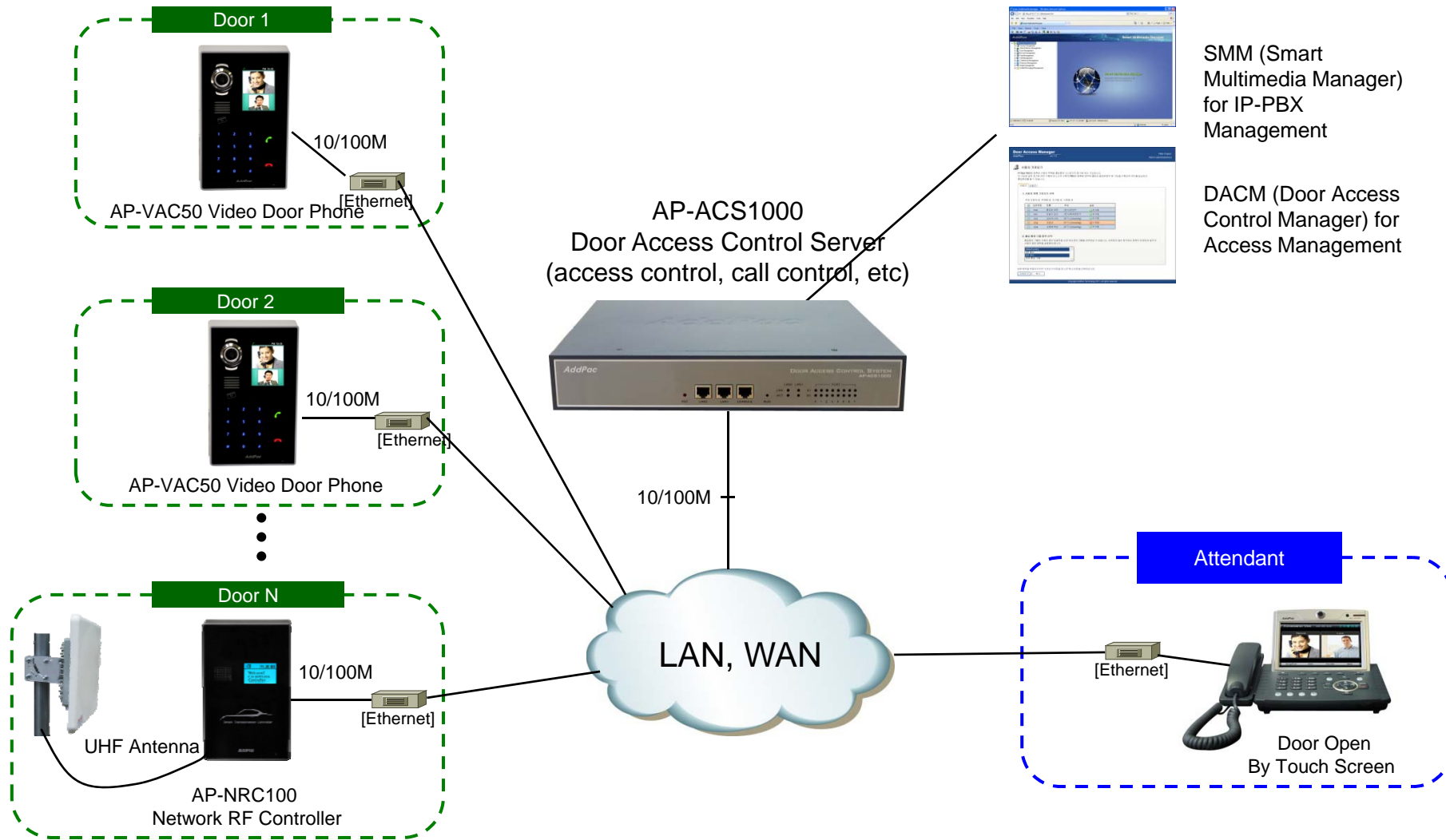
AP-NRC100 Network RF Controller

Application Area

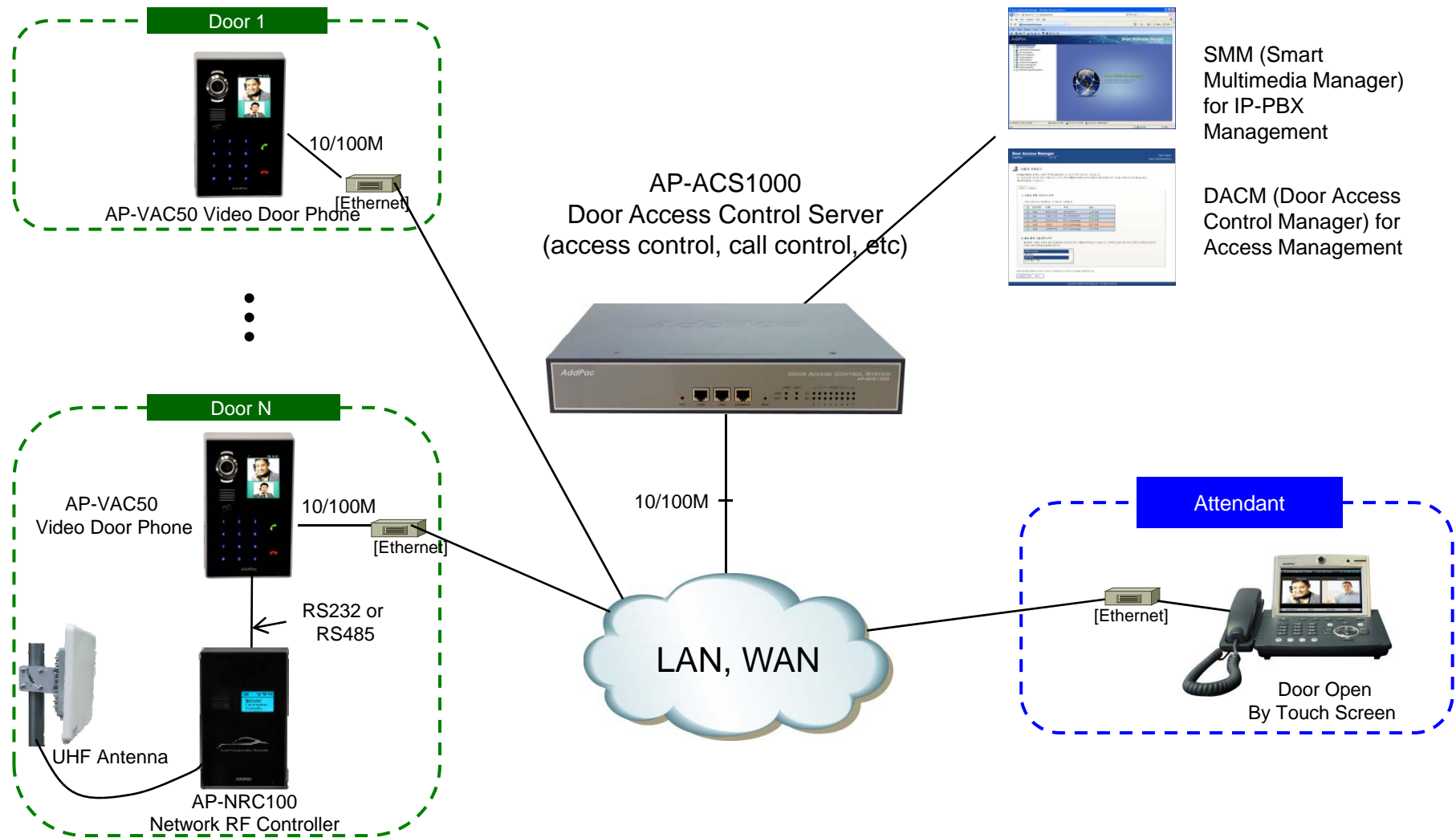
- RF Controller Stand-alone Mode
- RF Controller Video Door Phone Clone Mode



Integrated Door Access Control and Call Control (standalone mode)



Integrated Door Access Control and Call Control (clone mode)



Ordering Information

- **AP-NRC100 Network RF Controller Hardware**
 - AP-NRC100 Network RF Controller Main Body
 - RISC Microprocessor Programmable Architecture
 - Blue LCD
 - Internal Speaker
 - 1-ports 10/100Mbps Fast Ethernet
 - Including Network Cable Set & Ext. Power Supply, etc.
 - Option : Die-casting Frame Chassis*, PoE Interface
- **Built-in APOS Internetworking Software**
- **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!

AddPac Technology Co., Ltd.
Sales and Marketing

Phone +82.2.568.3848 (KOREA)

FAX +82.2.568.3847 (KOREA)

E-mail sales@addpac.com