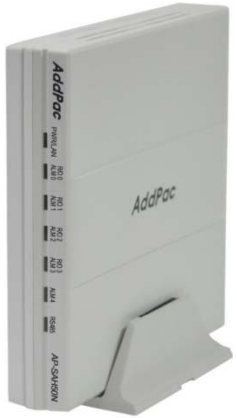
Smart Hub Solution Features for Wired Sensor Devices











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Contents

- Smart Hub Solution Features (Advantage)
- Smart Hub Equipment Table
- Smart Hub Service Diagram
- Smart Hub Equipment for Wired Sensor Devices
  - AP-SAH50N (Wired)
  - AP-SH1000 (500 Series)
  - AP-SH3000

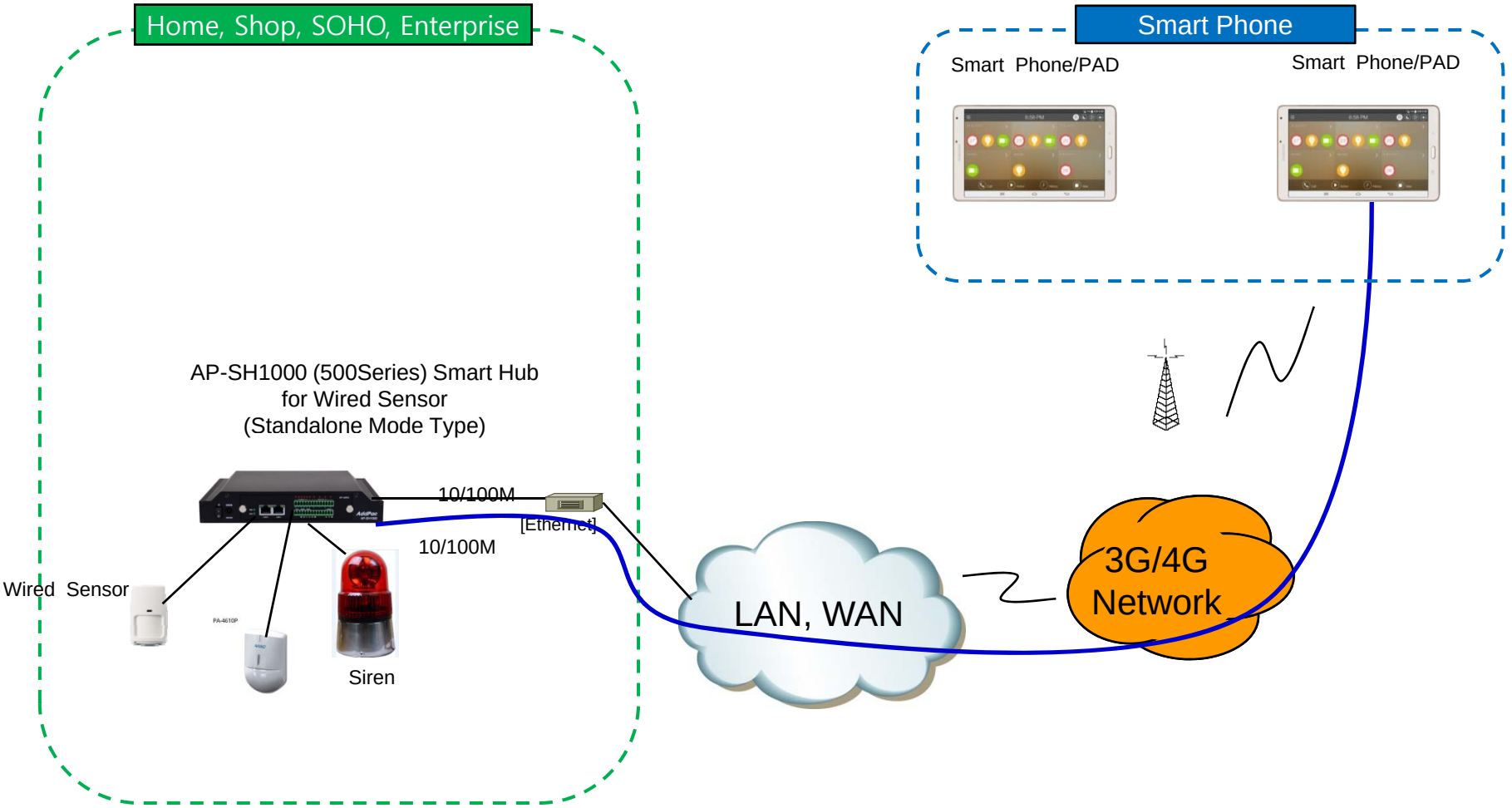
Smart Hub Solution Features

- Powerful Standalone Model: Smart Wall Pad or Smart Hub has full capability to provide smart home service to user via intranet or Internet. This model supports internal web server and also supports clone mode service beside standalone mode service.
- Flexible Multi-tenant Condominium Model (Clone Model) : Smart Home Server provides multi-tenant smart home solution including lobby camera, outdoor camera, and main entrance door phone. The Smart Hub for large apartment has minimum resource to LAN bridge smart home sensor device to Smart Home Server
- Smart Hub has interface for legacy wired devices and Wireless ZigBee / Z-Wave devices
  - It also support extended long cable antenna interface for enhancing wireless distance and flexible installation spot.(underground, outdoor, etc)
- Support Multiple Smart Hubs for Large Premise
  - A smart home user can install multiple Smart Hubs extending wireless limit.
- Provides Powerful Call Scenarios between SIP terminals.
  - Smart Wall Pad and Smart Hub provides call between SIP video door phone, SIP door phone, Android / I-Phone Smart Home App, PSTN phone, and other subscribers Smart Wall pads.
- Provides Zone based Intuitive UI
  - Zone Summary UI provides intuitive and easy UI for handling alarm and devices.

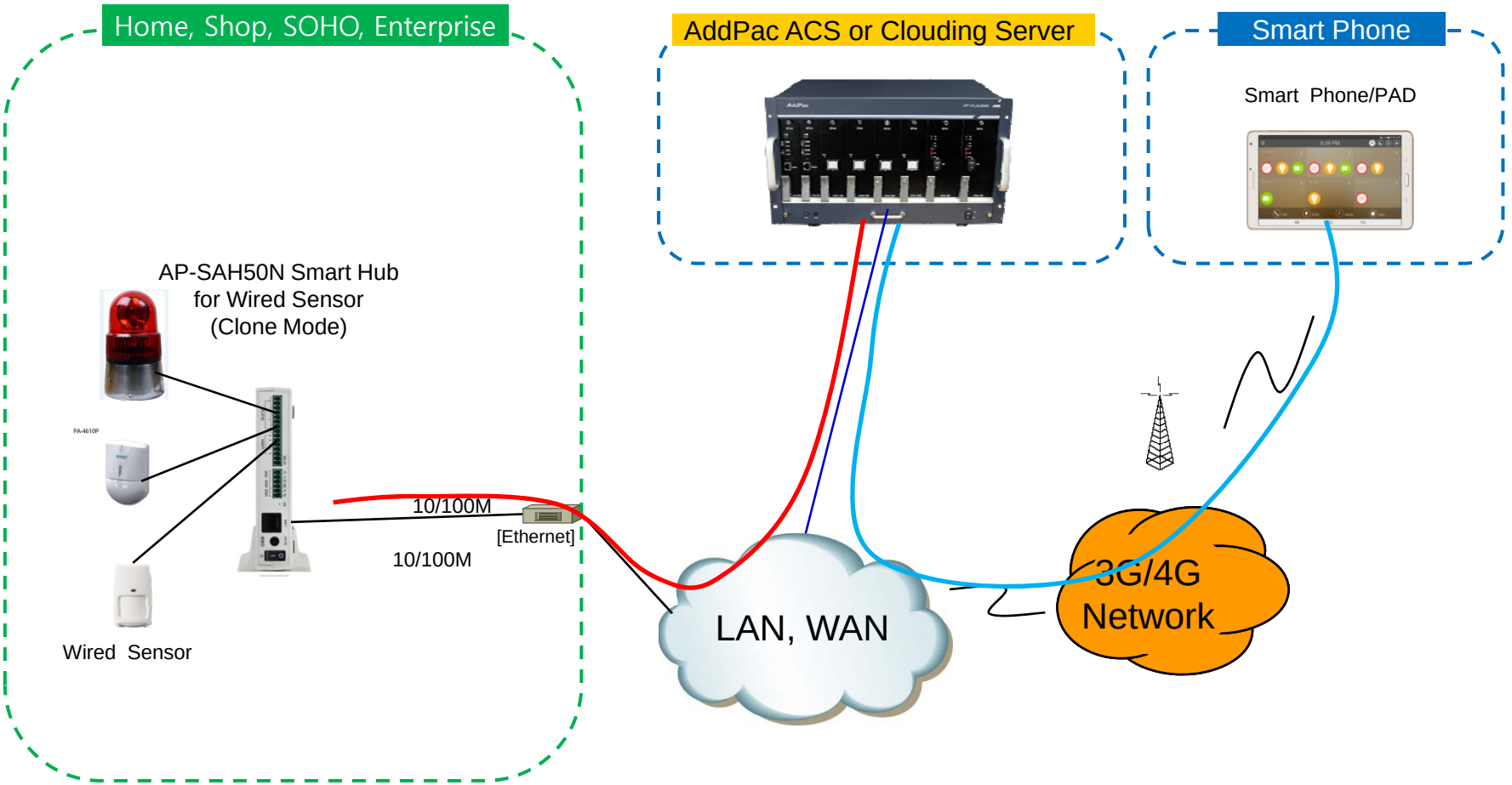
Smart Hub Equipment Comparison Table

Model	AP-SAH50N	AP-SH1000 (500 Series)	AP-SH3000
Service Features			
Sensor Type	Wired	Wireless/Wired	Wireless/Wired
	N/A	Zigbee, Zwave	Zigbee, Zwave
		Module Type, 1 Slot	Module Type, 2 Slot
Wired Sensor Port	Alarm 5, Relay 4	Alarm 6, Relay 4	Alarm 6, Relay 4 x 2
		Alarm 10, Relay 2	Alarm 10, Relay 2 x 2
RS485	Support	Support	Support
Smart Appl. for Phone, PAD	Support	Support	Support
Smart Web Manager	Support	Support	Support
LAN Port	1	2	2
PoE(Option)	Option	Option	Option

Smart Hub Service Diagram
(Standalone Type Smart Hub Device)

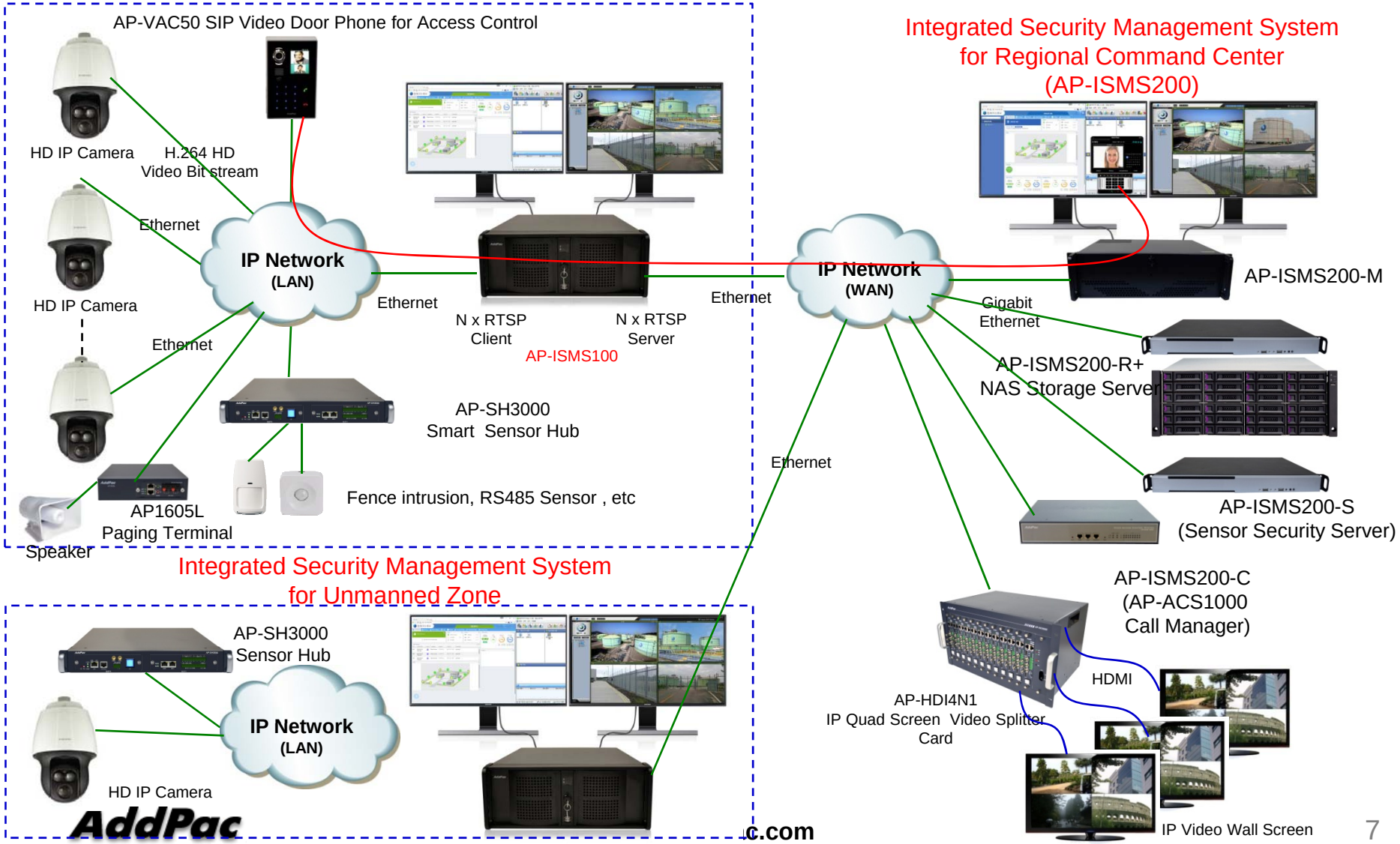


Smart Hub Service Diagram
(Clone Type Smart Hub Device)



Standard Application

AP-SH3000 Enterprise Smart Hub for Wired Sensor & Z sensors



Smart Hub Equipment for Sensor Devices

AP-SAH50N Smart Hub



Product Overview

AP-SAH50N Smart Hub for Legacy Wired Sensors

- Advanced Smart Hub Solution for Enterprise
- Legacy Wired Sensor Interface Support
- RS485, Alarm Input (5Port), Relay Out(4Port), Beacon, Speaker Interface
- Smart IP Routing Service Features for Sensor Network
- Smart Wall Pad Interworking Service Features
- Smart Hub Interworking Support for Third Party
- High Performance RISC Programmable Architecture
- One 10/100Mbps Fast Ethernet
- High Performance LAN-to-Wired Legacy Sensor Routing Capability
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Firmware Upgradeable Architecture
- Smart Web based Management
- Light and Compact Design with External Power Supply

Hardware Specification

AP-SAH50N Smart Hub for Legacy Wired Sensors



- RISC Microprocessor Computing Power
- Wired Sensor Interface
  - 5-Port Alarm Input
  - 4-Port Relay Output
  - RS485 Interface
- Speaker Port, Beacon Port
- Network Interface

  -One(1) 10/100Mbps Fast Ethernet (RJ45)
- LAN LED, Sensor Port LED, etc
- External Power Supply

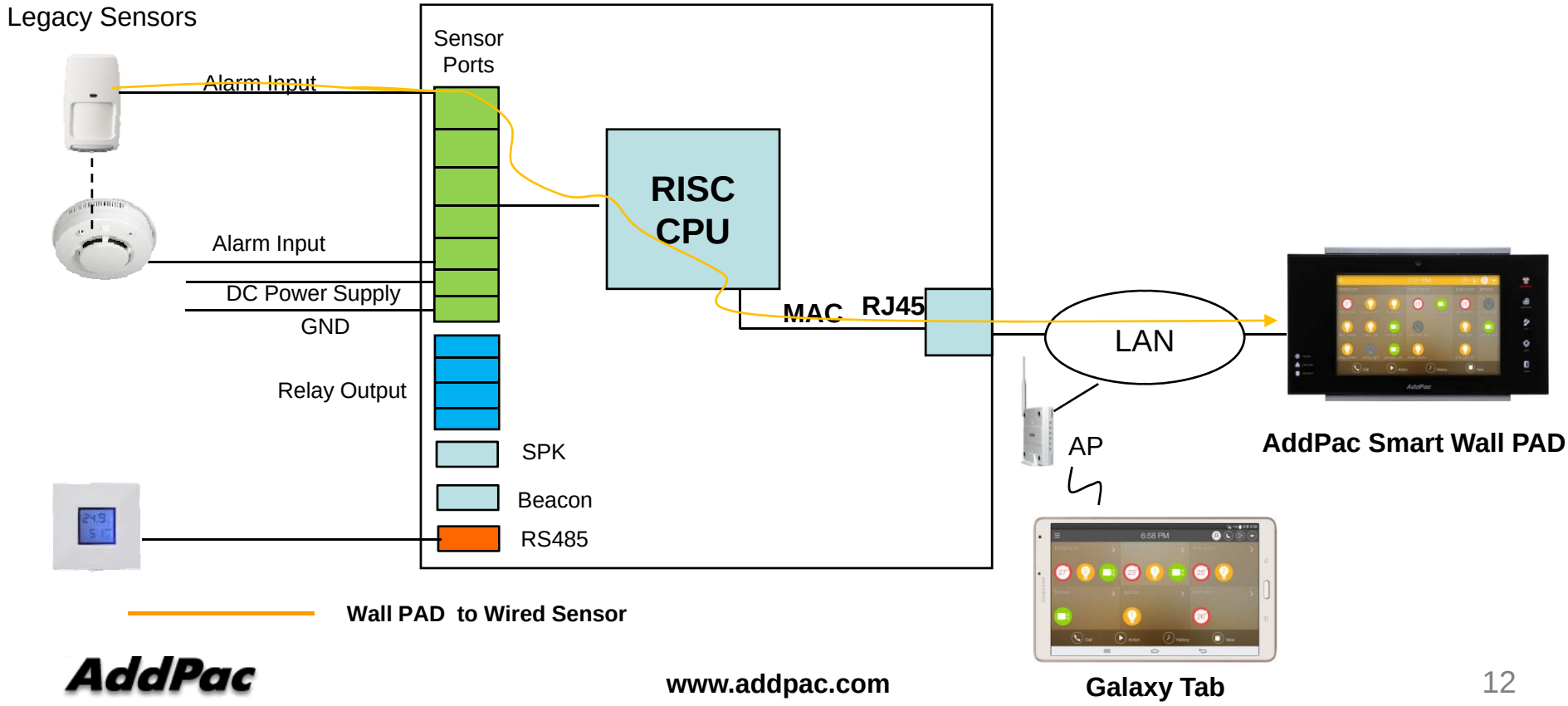
Hardware Specification

AP-SAH50N Smart Hub for Legacy Wired Sensors

RISC CPU

Smart Hub Service Diagram

AP-SAH50N Smart Hub Internal H/W Block Diagram



Hardware Specification

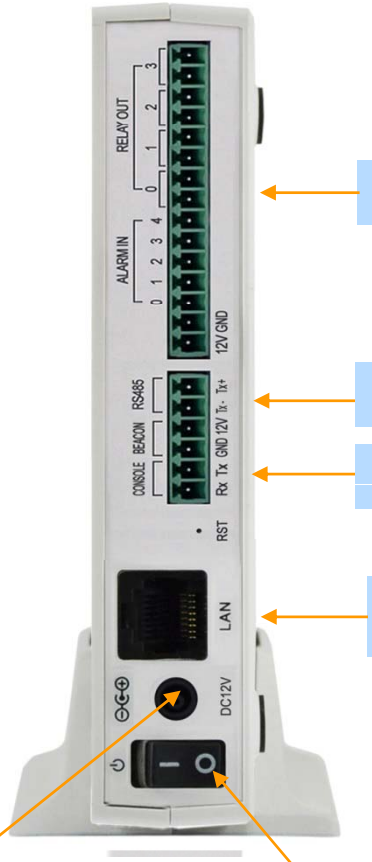
AP-SAH50N Smart Hub for Legacy Wired Sensors

AP-SAH50N Smart Hub	Basic Specifications
Sensor Interface (Wired Sensor)	5-Port Wired Sensor Input Interface
	4-Port Relay Output Interface
	1-Port RS485 Interface
Control Interface	Speaker, Beacon Control Interface
Ethernet Interface	1-Port 10/100Mbps Ethernet Interface(1 x RJ45)
Flash Memory	4Mbyte High-speed Flash Memory
Base Memory	32Mbyte High-speed SDRAM
Power Requirement	Power Supply Adaptor / VAC 110~220V, 50/60Hz, 12V, 2A
Operating Temperature	0ºC ~ 45ºC (32 ºF ~ 122ºF)
Storage Temperature	-40ºC ~ 85ºC (-40ºC ~ 185ºF)
Relative Humidity	5% ~ 95% (Non-condensing)
Dimension	142mm x 142mm x 28mm (W x D x H)
Weight (Kg)	0.42Kg

Hardware Specification

AP-SAH50N Smart Hub for Legacy Wired Sensors

Back Side



5-Port Wired Sensor Input
4-Port Relay Output

RS485 Sensor Interface

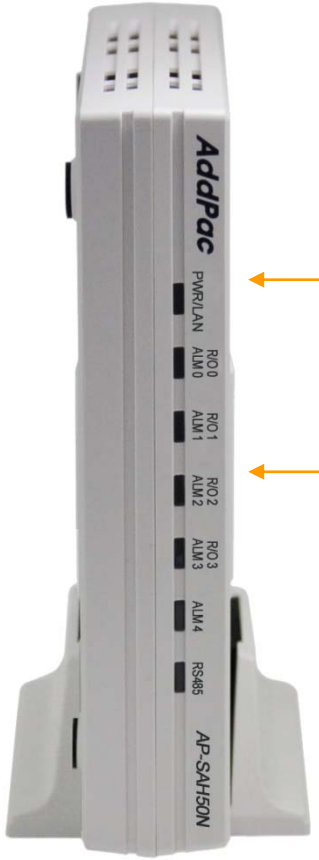
Control Output (Speaker, Beacon)

LAN0 10/100Mbps Ethernet

Power Input

Power Switch

Front Side

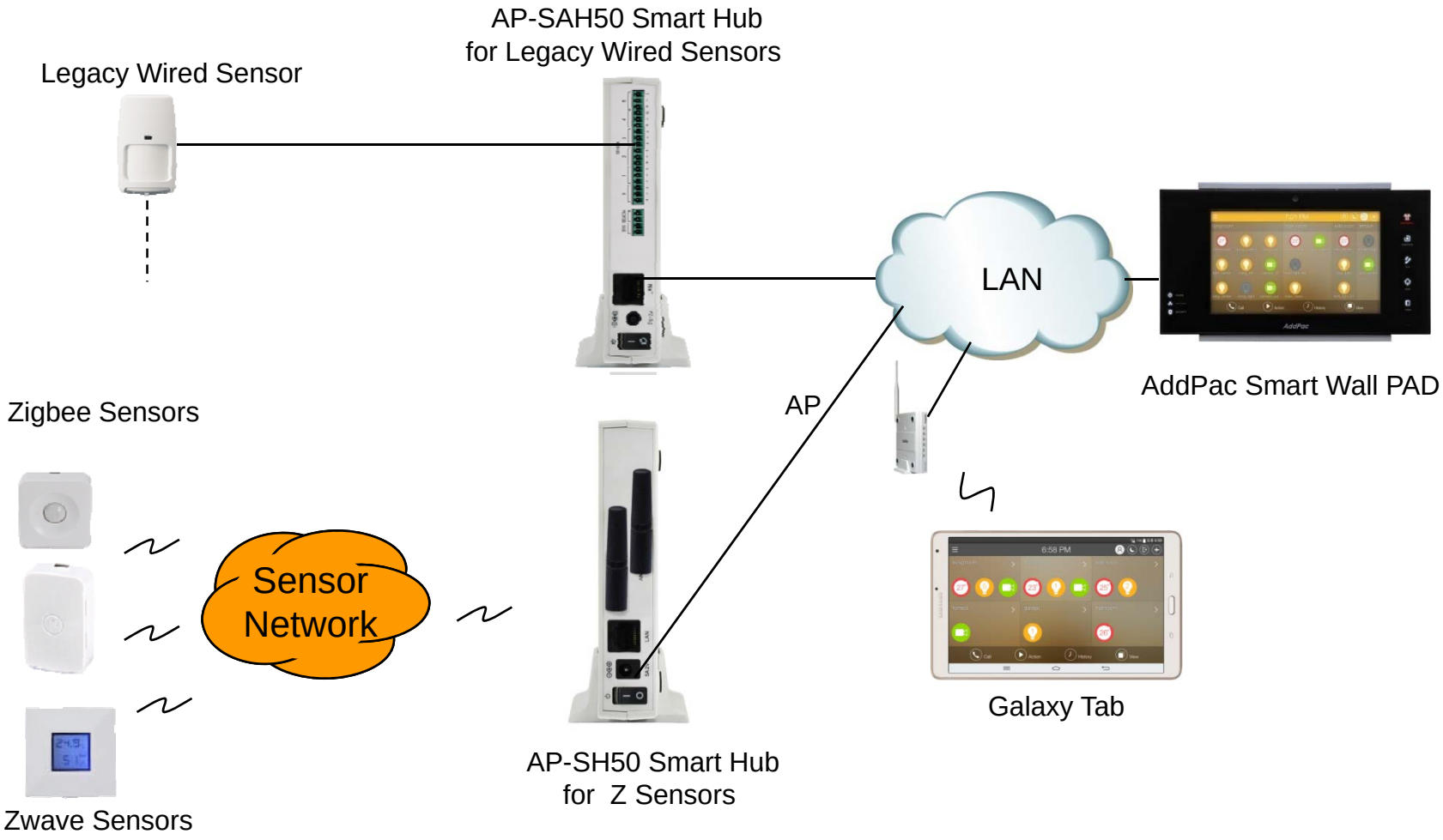


LAN Port LED

Sensor Port LED

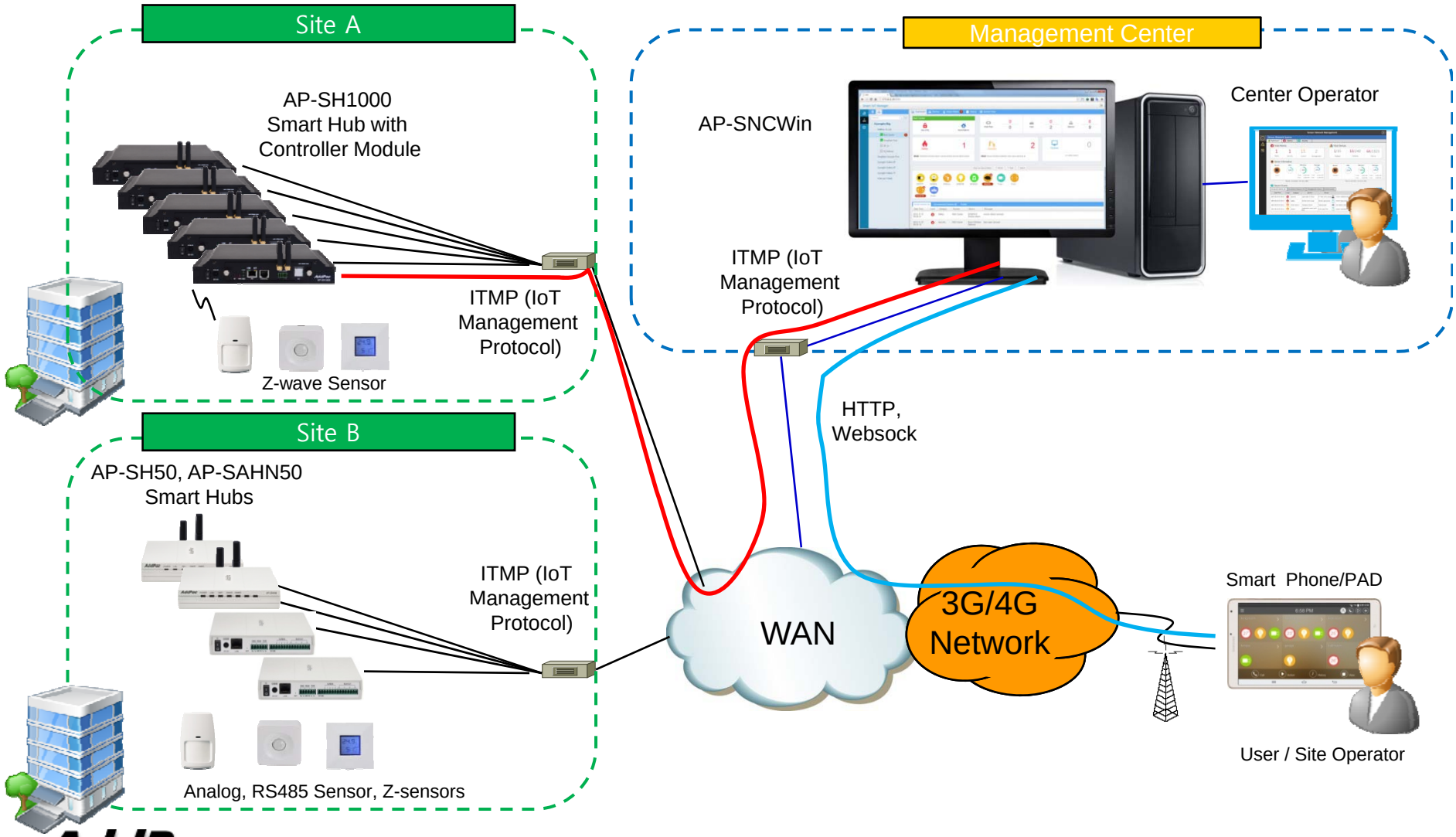
Standard Application

AP-SAH50N Smart Hub for Legacy Wired Sensors



Standard Application

AP-SAH50N Smart Hub for Legacy Wired Sensors



AP-SH1000(500 Series) Smart Hub



Product Overview

AP-SH1000 Enterprise Smart Sensor Hub for Wired Sensors

- Advanced Smart Enterprise Solution
- Wired Sensor (Alarm input, Relay Out), RS485 Sensor Interface Support
- One(1) Module Slot Support for Wired Sensors
- Various Wired Sensor Interface Module Support
- Smart IP Routing Service Features for Sensor Network
- AddPac IoT Solution Interworking Service Features
- Smart Hub Interworking Support for Third Party
- Module Type Hardware Architecture for Flexibility and Scalability
- High Performance RISC Programmable Architecture
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Firmware Upgradeable Architecture
- Smart Web based Management
- Light and Compact Chassis Design with External Power Supply

Hardware Specification

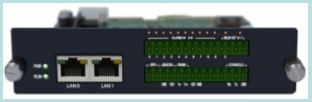
AP-SH1000 Enterprise Smart Sensor Hub for Wired Sensors



- RISC Microprocessor Computing Power
- One(1) Module Slot for Sensor Interface
- Wired Sensor Interface Modules
  - AP-A6R4 : Wired Sensor, Alarm Input 6, Relay Out 4
  - AP-A10R2 : Wired Sensor, Alarm Input 10, Relay Out 2
- SPEAKER, BEACON Port Support
- RS485 Interface Support
- Dual(2) LAN 10/100Mbps Interface Support
- External Power Supply

Hardware Specification

AP-SH1000 Enterprise Smart Sensor Hub for Wired Sensors

Module Specification	AP-A6R4 	AP-A10R2 
Alarm Input	6 Port	10 Port
Relay Out	4 Port	2 Port
RS485 Interface	Support	Support
Network Interface	Two(2)10/100Mbps Fast Ethernet	Two(2)10/100Mbps Fast Ethernet
RS232C Console	1	1
Speaker Port	Support	Support
Beacon Port	Support	Support

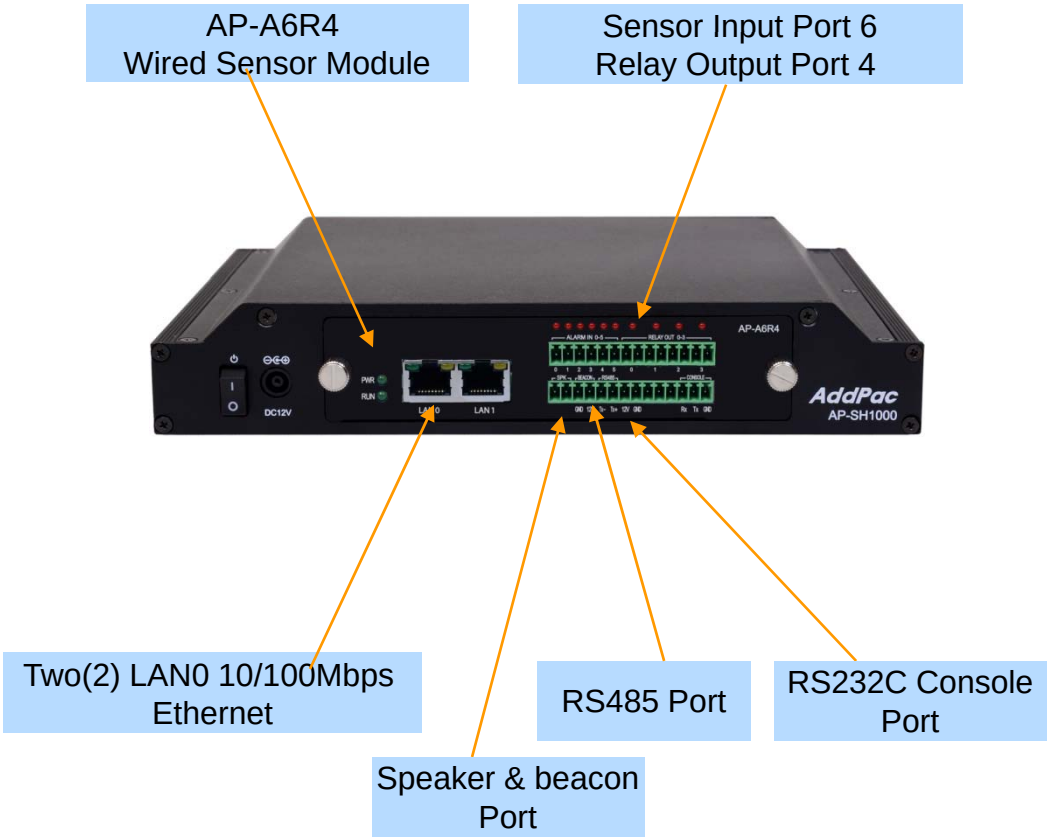
Hardware Specification

AP-SH1000 Enterprise Smart Sensor Hub for Wired Sensors

AP-SH1000 Smart Hub	Basic Specifications
Module Slot	One(1) Module Slots for Wired & Wireless Sensor Module
AP-A6R4 Sensor Interface Module	6 Wired Sensor Input, 4 Relay Out, RS485, Two(2) LAN, SPK, BEACON, RS232 Console
AP-A10R2 Sensor Interface Module	10 Wired Sensor Input, 2 Relay Out, RS485, Two(2) LAN, SPK, BEACON, RS232 Console
Flash Memory	4Mbyte High-speed Flash Memory
Base Memory	32Mbyte High-speed SDRAM
Power Requirement	Power Supply Adaptor / VAC 110~220V, 50/60Hz, 12V, 1A
Operating Temperature	0ºC ~ 45ºC (32 ºF ~ 122ºF)
Storage Temperature	-40ºC ~ 85ºC (-40ºC ~ 185ºF)
Relative Humidity	5% ~ 95% (Non-condensing)
Dimension (H x W x D)	40 mm x 230mm x 175mm
Weight (Kg)	1.25Kg

Hardware Specification

AP-SH1000 Enterprise Smart Sensor Hub for Wired Sensors



AP-SH3000 Smart Hub for Wired Sensor



Product Overview

AP-SH3000 Enterprise Smart Hub for Wired Sensor & Z sensors

- Advanced Smart Enterprise Solution
- Wired Sensor (Alarm input, Relay Out), RS485 Sensor Interface Support
- Zigbee/Zwave Dual Sensor Interface Support
- Two(2) Module Slot Support for Wired and Wireless Sensors
- Smart IP Routing Service Features for Sensor Network
- AddPac IoT Solution Interworking Service Features
- Smart Hub Interworking Support for Third Party
- Module Type Hardware Architecture for Flexibility and Scalability
- High Performance RISC Programmable Architecture
- External Antenna Support for Zwave/ZigBee Sensor Device
- High Performance LAN-to-Zigbee/Zwave Routing Capability
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Firmware Upgradeable Architecture
- Smart Web based Management
- Light and Compact Design with External Power Supply

Hardware Specification

AP-SH3000 Enterprise Smart Hub for Wired Sensor & Z sensors



- RISC Microprocessor Computing Power
- Two(2) Module Slots for Sensor Interface
- Wired Sensor Interface Modules
  - AP-A6R4 : Wired Sensor, Alarm Input 6, Relay Out 4
  - AP-A10R2 : Wired Sensor, Alarm Input 10, Relay Out 2
- Z Sensor Interface Modules
  - AP-ZBW100 : ZigBee and ZWave Dual Interface
  - AP-ZW100 : ZWave Interface, One(1) Antenna
  - AP-ZW104 : ZWave Interface, Four(4) Antenna
  - AP-ZBW200 : ZigBee and ZWave Dual Interface (USB WiFi)
  - AP-ZW200 : ZWave Interface, One(1) Antenna (USB WiFi)
  - AP-ZW204 : ZWave Interface, Four(4) Antenna(USB WiFi)
- External Power Supply

Hardware Specification

AP-SH3000 Enterprise Smart Hub for Wired Sensor & Z sensors

Module Specification	AP-A6R4 	AP-A10R2 
Alarm Input	6 Port	10 Port
Relay Out	4 Port	2 Port
RS485 Interface	Support	Support
Network Interface	Two(2)10/100Mbps Fast Ethernet	Two(2)10/100Mbps Fast Ethernet
RS232C Console	1	1
Speaker & Beacon Port	Support	Support

Hardware Specification

AP-SH3000 Enterprise Smart Hub for Wired Sensor & Z sensors

Module / Specification	AP-ZBW100	AP-ZW100	AP-ZW104
			
ZigBee Interface	Support	N/A	N/A
ZigBee Antenna	1	N/A	N/A
ZWave Interface	Support	Support	Support
ZWave Antenna	1	1	4
Network Interface	10/100Mbps Fast Ethernet	10/100Mbps Fast Ethernet	10/100Mbps Fast Ethernet
RS232C Console	1	1	1
Speaker & Beacon Port	Support	Support	Support

Hardware Specification

AP-SH3000 Enterprise Smart Hub for Wired Sensor & Z sensors

Module Specification	AP-ZBW200 	AP-ZW200 	AP-ZW204 
ZigBee Interface	Support	N/A	N/A
ZigBee Antenna	1	N/A	N/A
ZWave Interface	Support	Support	Support
ZWave Antenna	1	1	4
Network Interface	10/100Mbps Fast Ethernet	10/100Mbps Fast Ethernet	10/100Mbps Fast Ethernet
USB Interface	WiFi USB Module Support	WiFi USB Module Support	WiFi USB Module Support
RS232C Console	1	1	1
Speaker & Beacon Port	Support	Support	Support

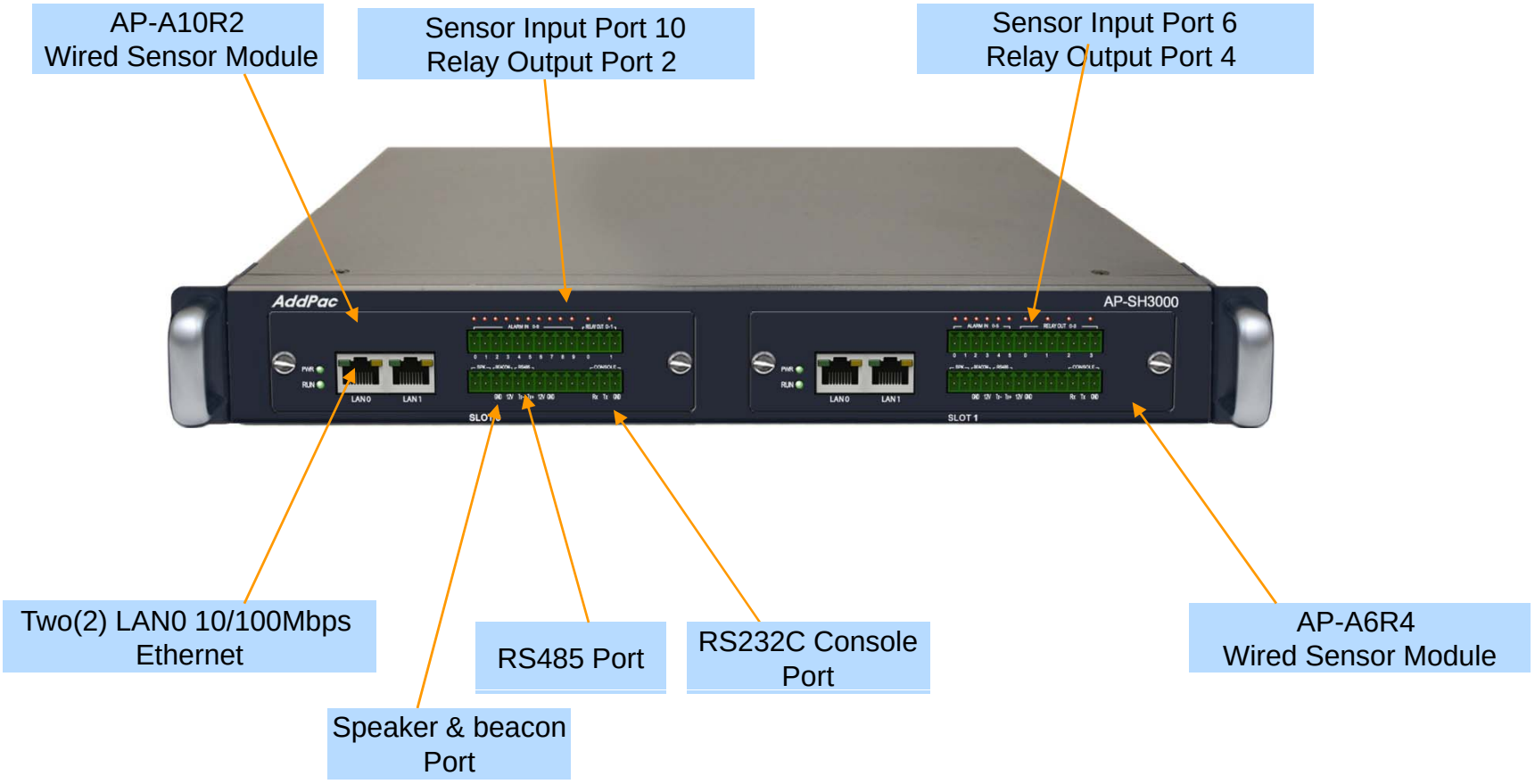
Hardware Specification

AP-SH3000 Enterprise Smart Hub for Wired Sensor & Z sensors

AP-SH3000 Smart Hub	Basic Specifications
Module Slot	Two(2) Module Slots for Wired & Wireless Sensor Module
AP-A6R4 Sensor Interface Module	6 Wired Sensor Input, 4 Relay Out, RS485, Two(2) LAN, SPK, BEACON, RS232 Console
AP-A10R2 Sensor Interface Module	10 Wired Sensor Input, 2 Relay Out, RS485, Two(2) LAN, SPK, BEACON, RS232 Console
AP-ZBW100 Sensor Interface Module	One(1)-Port ZigBee Interface, One(1)-Port ZWave Interface, One(1) LAN, RS232 Console, SPK, BEACON
AP-ZW100 Sensor Interface Module	One(1)-Port ZWave Interface, One(1) LAN, RS232 Console, SPK, BEACON
AP-ZW104 Sensor Interface Module	One(1)-Port ZWave Interface with 4 Antenna Port, One(1) LAN, RS232 Console, SPK, BEACON
Flash Memory	4Mbyte High-speed Flash Memory
Base Memory	32Mbyte High-speed SDRAM
Power Requirement	Power Supply Adaptor / VAC 110~220V, 50/60Hz, 12V, 1A
Operating Temperature	0ºC ~ 45ºC (32 ºF ~ 122ºF)
Storage Temperature	-40ºC ~ 85ºC (-40ºC ~ 185ºF)
Relative Humidity	5% ~ 95% (Non-condensing)
Dimension (H x W x D)	44 mm x 320mm x 180mm

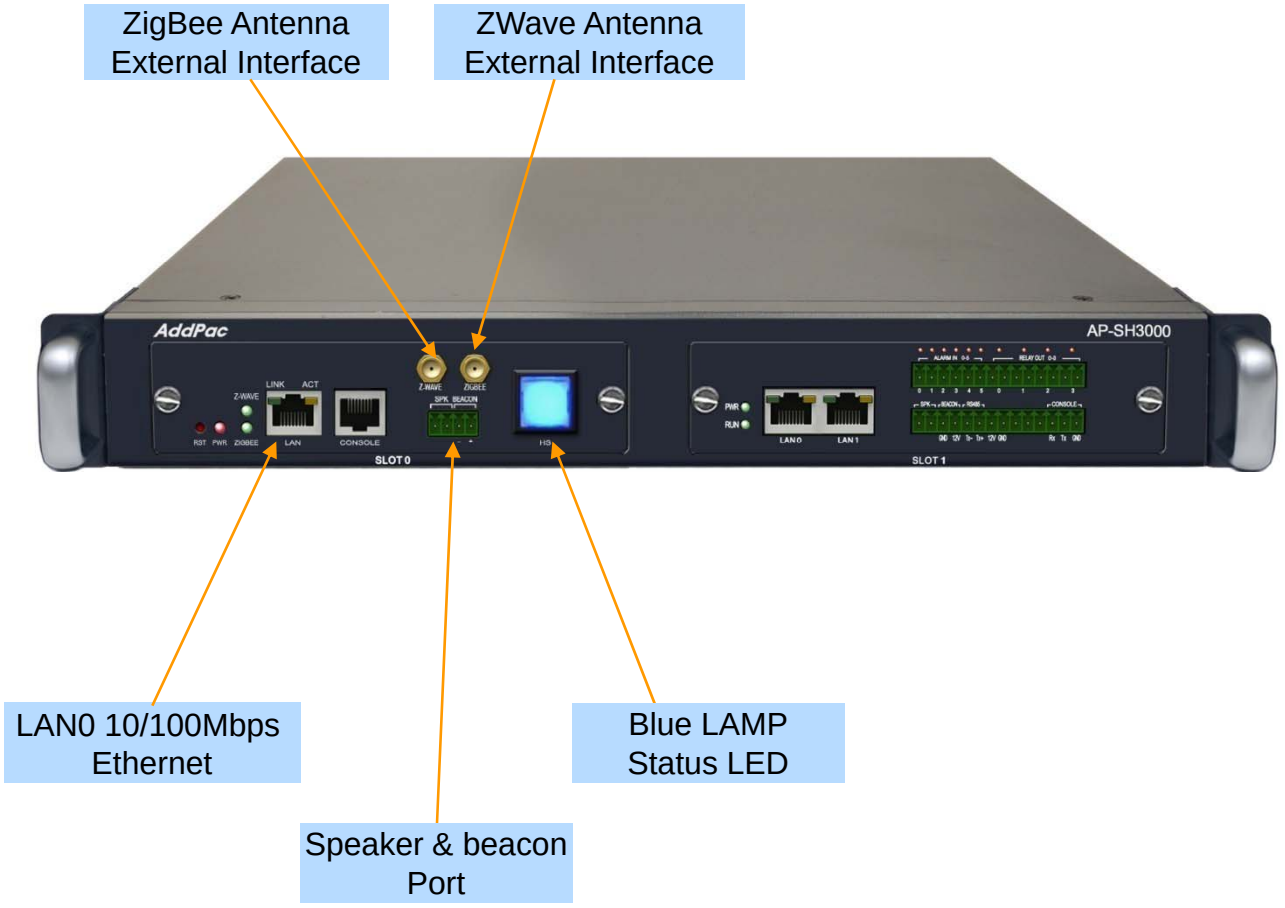
Hardware Specification

AP-SH3000 Enterprise Smart Hub for Wired Sensor & Z sensors



Hardware Specification

AP-SH3000 Enterprise Smart Hub for Wired Sensor & Z sensors



Thank you!

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