Smart Hub Solution Features
for Wireless/Wired Sensor Devices

AddPac Technology

2014, Sales and Marketing

www.addpac.com

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- Smart Hub Solution Features (Advantage)

- Smart Hub Equipment Table

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  – AP-SH50 (Zigbee/Zwave)

  – AP-SAH50 (Wired)

  – AP-SHD50 (Zigbee/Zwave, Wired)

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Smart Home Equipment Table

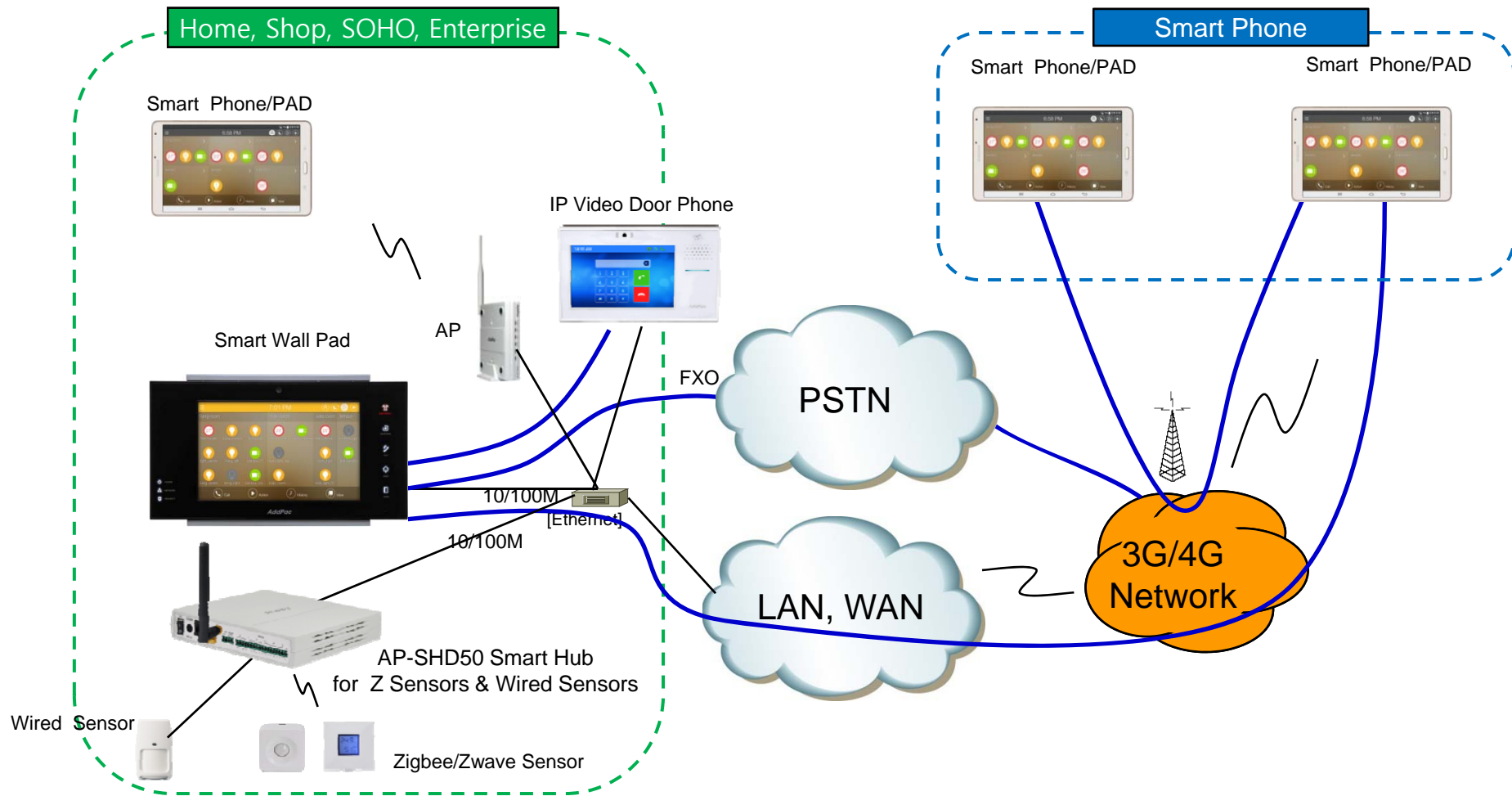| Smart Home Products	Description	Model
	Smart Wall PAD	AP-VWP100, AP-VWP90, AP-VWP80
	IP Video Door Phones	AP-VAC20, AP-VAC50, AP-VAC80, AP-VAC150
	IP Video Phone (Bidirectional two-way video)	AP-VP280, AP-VP120, etc
	Smart Hub for Zigbee/Zwave Sensors	AP-SH50, AP-SAH50, AP-SHD50
	Smart Phone and Tab/Pad Appl.	

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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.

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Smart Hub Equipment Comparison Table

Model	AP-SH50	AP-SAH50	AP-SHD50
Service Features			
Sensor Type	Wireless	Wired	Wireless/Wired
	Zigbee, Zwave		Zigbee, Zwave
Wired Sensor Port	N/A	6-Port	6-Port
Smart Appl. for Phone, PAD	Support	Support	Support
Smart Web Manager	Support	Support	Support
LAN Port	1	1	1
PoE(Option)	Option	Option	Option

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Smart Hub Service Diagram (Smart Home Solution)

Home, Shop, SOHO, Enterprise

Smart Phone/PAD

IP Video Door Phone

AP

Smart Wall Pad

FXO

PSTN

10/100M
[Ethernet]

10/100M

AP-SHD50 Smart Hub
for Z Sensors & Wired Sensors

Wired Sensor

Zigbee/Zwave Sensor

LAN, WAN

3G/4G
Network

Smart Phone

Smart Phone/PAD

Smart Phone/PAD

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Smart Hub Service Diagram
(Standalone Type Smart Hub Device)

Home, Shop, SOHO, Enterprise

Smart Phone

Smart Phone/PAD

Smart Phone/PAD

AP-SHD50 Smart Hub
for Z Sensors & Wired Sensors
(standalone mode type)

10/100M

[Ethernet]

10/100M

Wired Sensor

Zigbee/Zwave Sensor

LAN, WAN

3G/4G
Network

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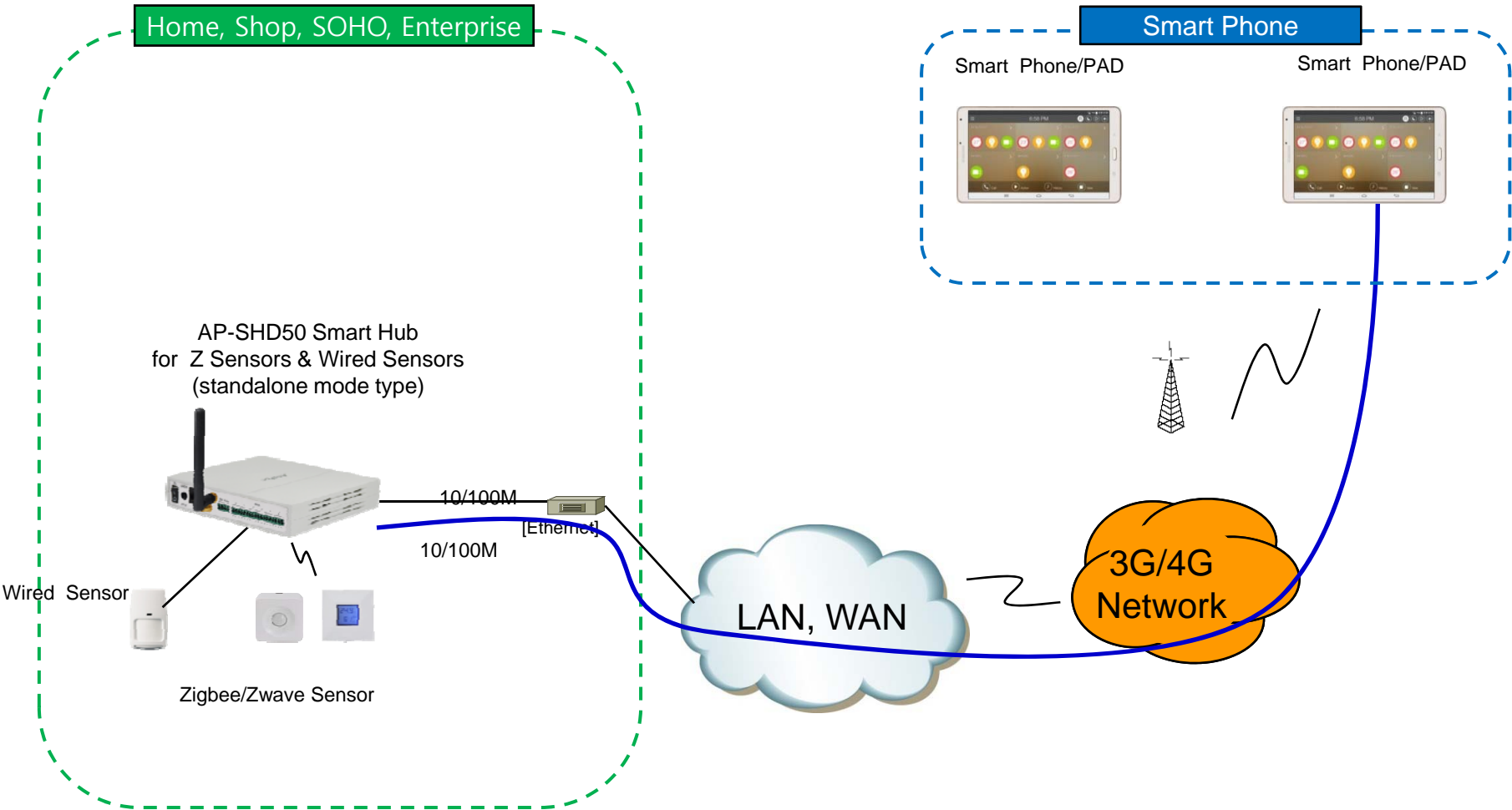
Smart Hub Service Diagram
(Clone Type Smart Hub Device)

Home, Shop, SOHO, Enterprise

AddPac ACS or Clouding Server

Smart Phone

Smart Phone/PAD

AP-SHD50L Smart Hub
for Z Sensors & Wired Sensors
(clone mode type)

10/100M

[Ethernet]

10/100M

Wired Sensor

Zigbee/Zwave Sensor

LAN, WAN

3G/4G
Network

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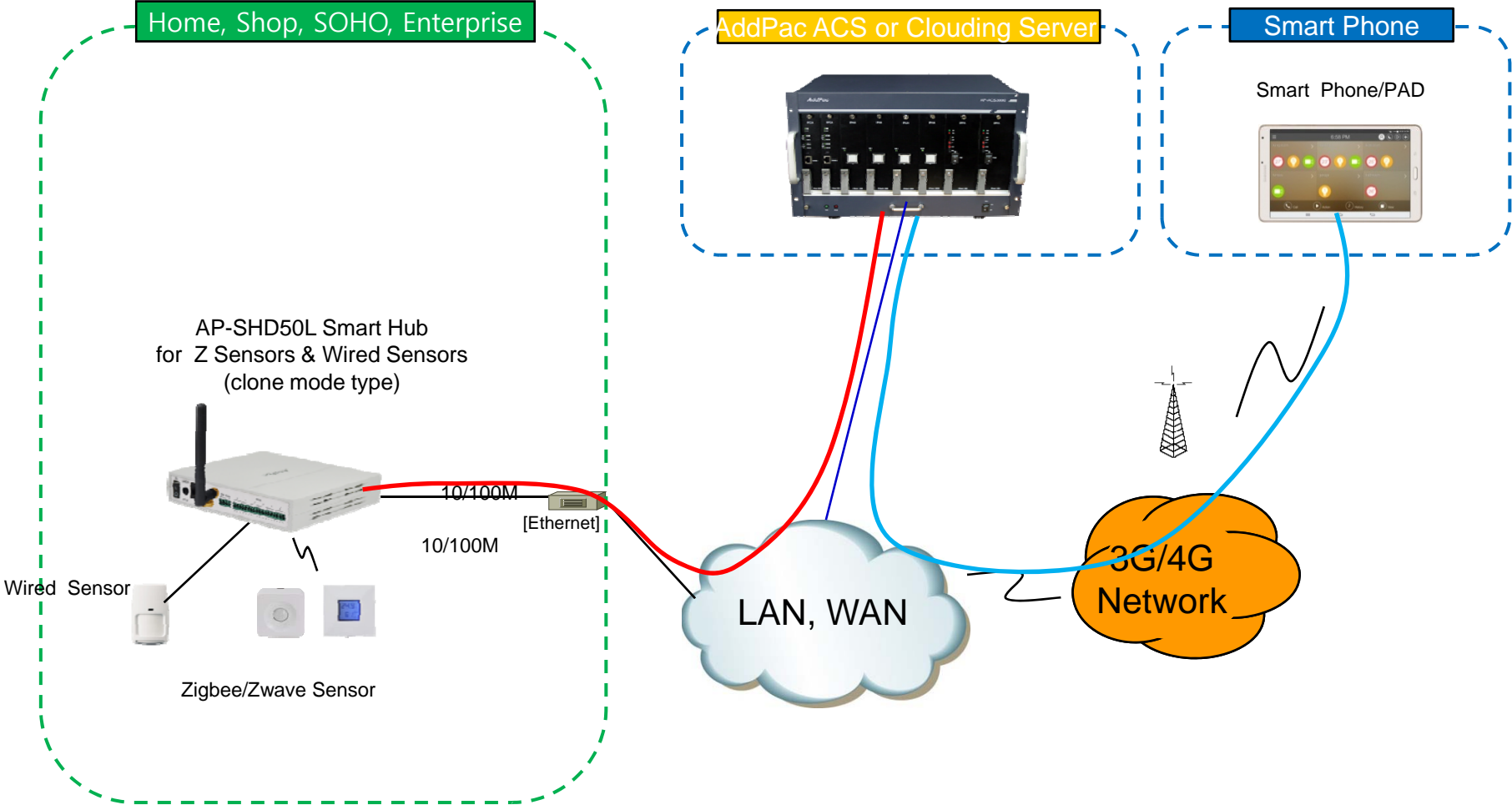
Smart Hub Equipment for Sensor Devices

AP-SH50 Smart Hub

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Product Overview

AP-SH50 Smart Hub for Z sensors

- Advanced Smart Home Solution
- Zigbee/Zwave Dual Sensor Interface Support
- 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-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

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Hardware Specification

- RISC Microprocessor Computing Power

- 1-Port Zigbee Interface

- 1-Port Zwave Interface

- 1-Port Zigbee Antenna

- 1-Port Zwave Antenna

- Network Interface

   -One(1) 10/100Mbps Fast Ethernet (RJ45)
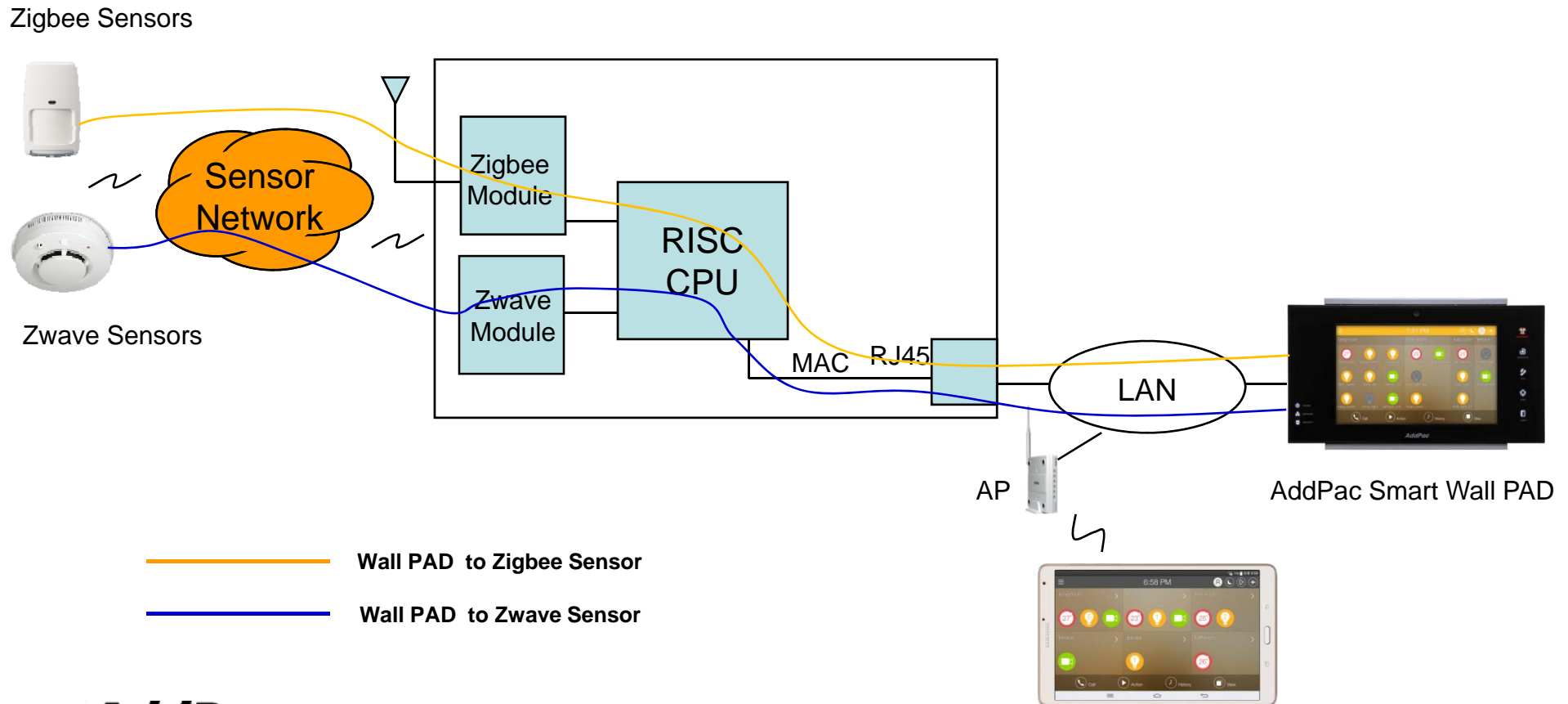
- Run LED, LAN LED, Port LEDs

- External Power Supply

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Hardware Specification

AP-SH50 Smart Hub for Z sensors

RISC CPU

Smart Hub Service Diagram

AP-SH50 Smart Hub Internal H/W Block Diagram

Zigbee Sensors

Sensor Network

Zwave Sensors

Zigbee Module

Zwave Module

RISC CPU

MAC RJ45

LAN

AP

AddPac Smart Wall PAD

Galaxy Tab

——— Wall PAD to Zigbee Sensor

——— Wall PAD to Zwave Sensor

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Hardware Specification

AP-SH50 Smart Hub for Z sensors

Network interface Configurations

Zwave Antenna
External Interface

Zigbee Antenna
External Interface

LAN0 10/100Mbps
Ethernet

Power Input

Power Switch

POWER   LAN   WIFI   ZWAVE   ZIGBEE   AP-SH50

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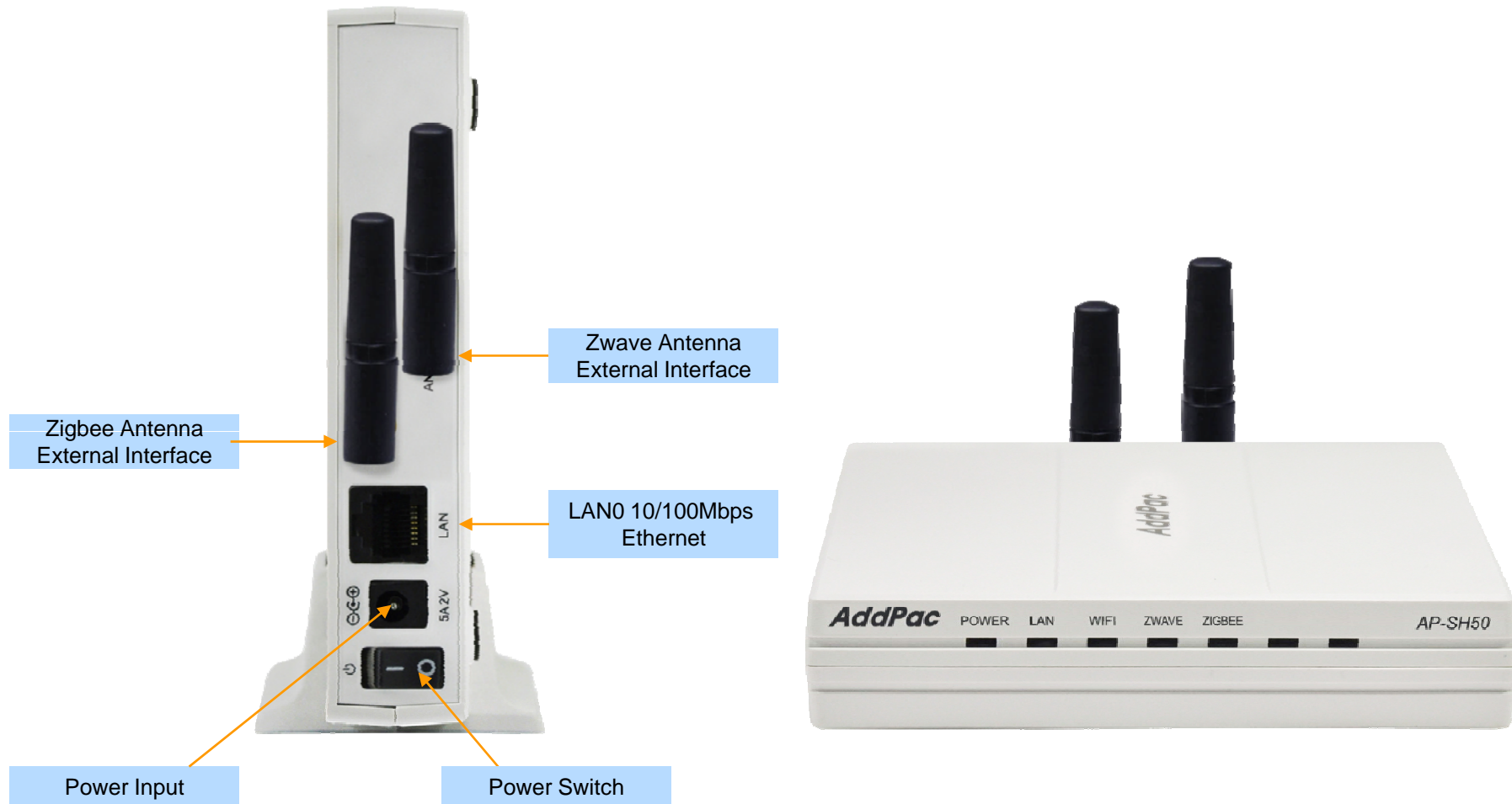
AP-SAH50 Smart Hub

Product Overview

AP-SAH50 Smart Hub for Legacy Wired Sensors

- Advanced Smart Home Solution
- Legacy Wired Sensor Interface Support
- 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
- PoE Support : Option
- 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

- RISC Microprocessor Computing Power

- 6-Port Wired Sensor

  - Alarm Input

  - Power Output for Sensor Power Supply

- Speaker Port, Beacon Port

- Network Interface

  -One(1) 10/100Mbps Fast Ethernet (RJ45)

- LAN LED, Sensor Port LED

- External Power Supply

- PoE (Power over Ethernet) : Option

Hardware Specification

Smart Hub Service Diagram
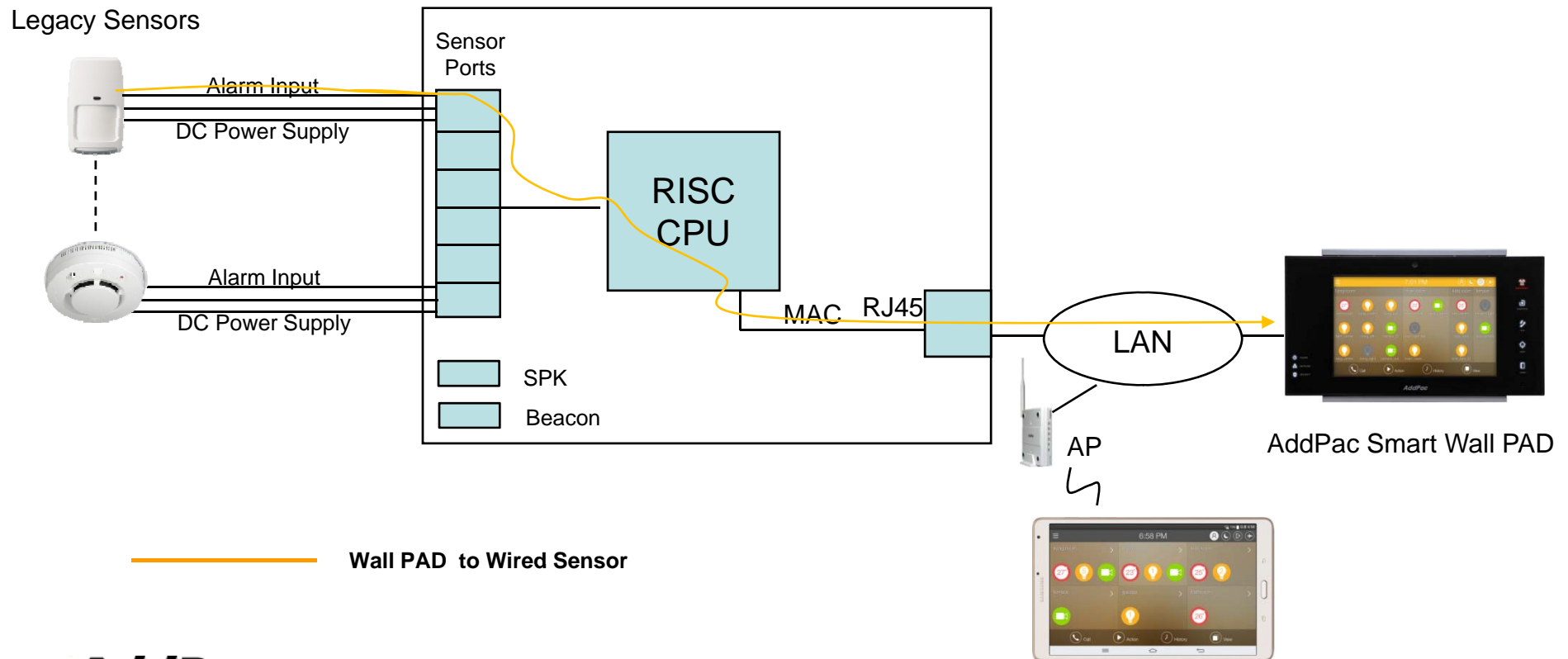
AP-SH50 Smart Hub Internal H/W Block Diagram

Legacy Sensors

Sensor Ports

Alarm Input

DC Power Supply

Alarm Input

DC Power Supply

RISC CPU

MAC   RJ45

LAN

SPK

Beacon

AP

AddPac Smart Wall PAD

—————— **Wall PAD to Wired Sensor**

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Galaxy Tab

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Hardware Specification
AP-SAH50 Smart Hub for Legacy Wired Sensors

Back Side

Front Side

6-Port Wired Sensor Input
(alarm input, dc power supply)

Control Output
(Speaker, Beacon)

LAN Port LED

Sensor Port LED

LAN0 10/100Mbps
Ethernet

Power Input

Power Switch

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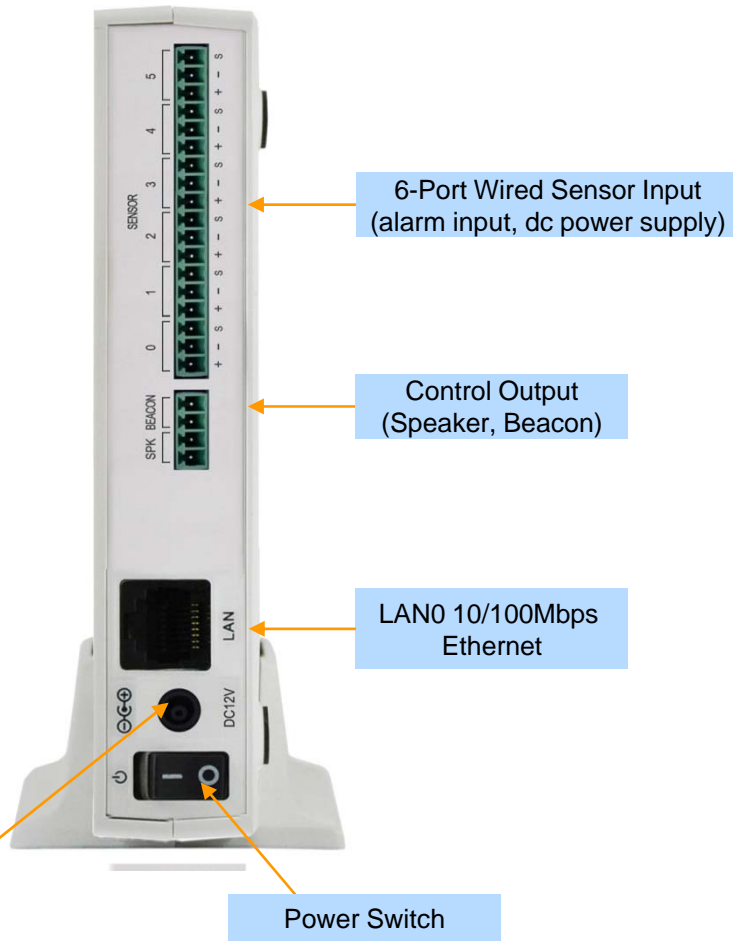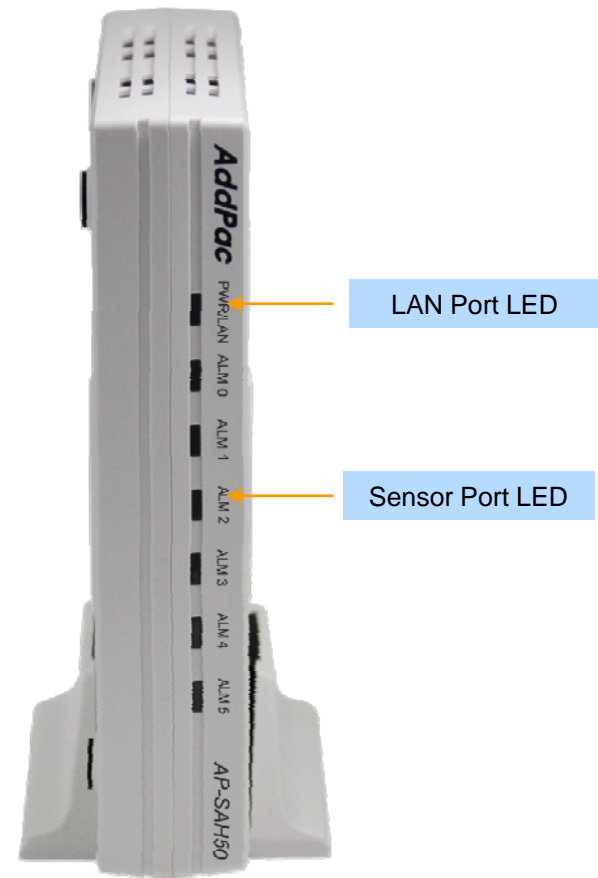
AP-SHD50 Smart Hub

Product Overview

AP-SHD50 Smart Hub for Z Sensors & Wired Sensors

- Advanced Smart Home Solution
- Zigbee/Zwave Dual Sensor Interface Support
- Legacy Wired Sensor Interface Support
- 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
- PoE Support : Option
- 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

RISC CPU

- RISC Microprocessor Computing Power
- 1-Port Zigbee Interface
- 1-Port Zwave Interface
- 6-Port Wired Sensor
  - Alarm Input
  - Power Output for Sensor Power Supply
- Speaker Port, Beacon Port
- Network Interface
  - -One(1) 10/100Mbps Fast Ethernet (RJ45)
- LAN LED, Port LEDs
- External Power Supply
- PoE (Power over Ethernet) : Option

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Hardware Specification

AP-SHD50 Smart Hub for Z Sensors & Wired Sensors

Smart Hub Service Diagram

Zigbee Sensors

AP-SHD50 Smart Hub Internal H/W Block Diagram

Sensor Network

Zwave Sensors

Zigbee Module

Zwave Module

RISC CPU

MAC   RJ45

LAN

AP

AddPac Smart Wall PAD

Alarm Input

DC Power Supply

Legacy Sensors

Alarm Input

DC Power Supply

Sensor Ports

Galaxy Tab

—————— **Wall PAD to Zigbee Sensor**

—————— **Wall PAD to Zwave Sensor**
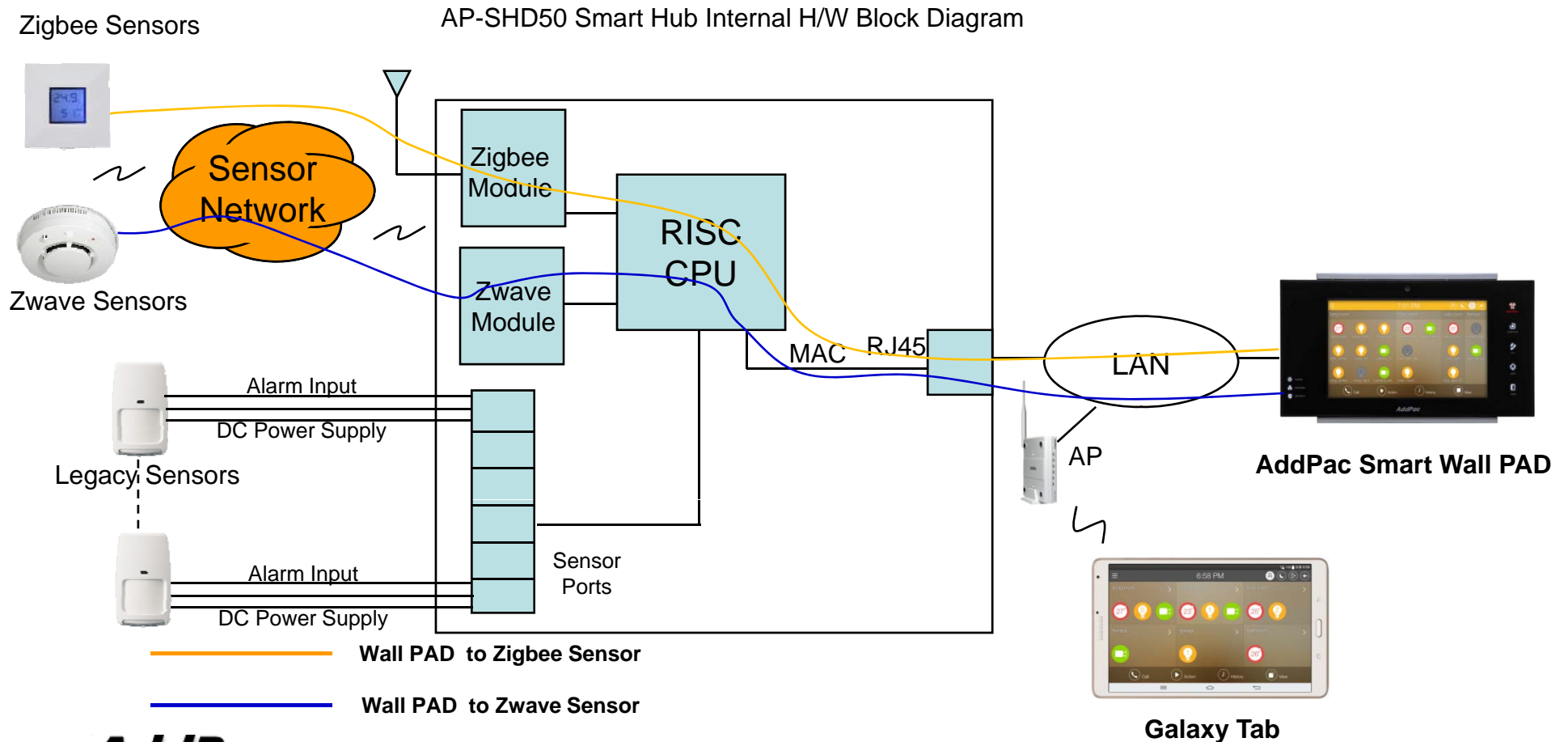
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Hardware Specification

AP-SHD50 Smart Hub for Z Sensors & Wired Sensors

Network interface Configurations

6-Port Wired Sensor Input
(alarm input, dc power supply)

Control Output
(Speaker, Beacon)

Zigbee Antenna
External Interface

Zwave Antenna
External Interface

LAN0 10/100Mbps
Ethernet

Power Input

Power Switch
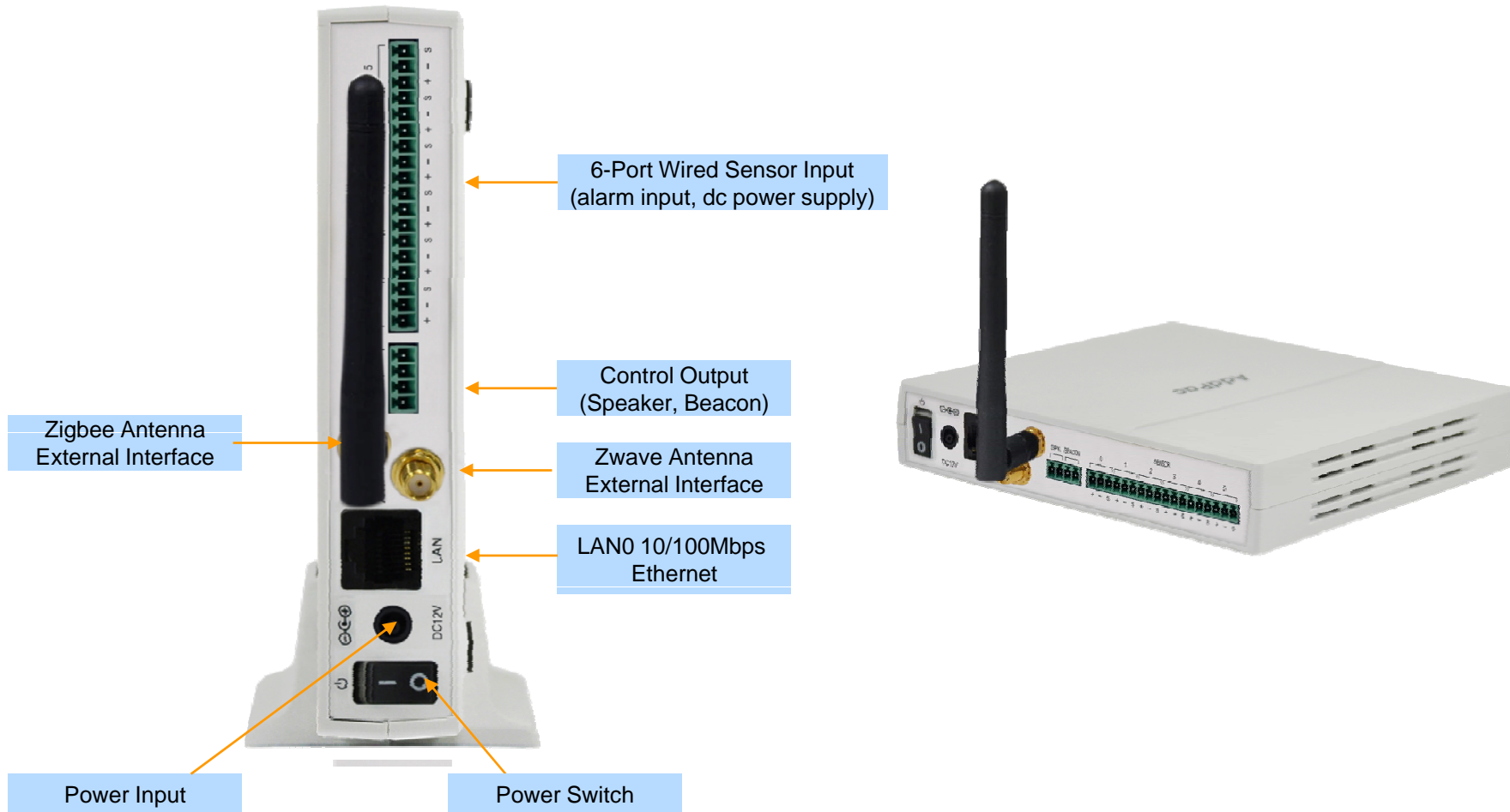
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Thank you!

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