

## AP-SH1000 Enterprise Smart Hub for Z Sensor



AP-SH1000 enterprise smart hub for ZigBee/ZWave sensors is an IP connectivity device for ZigBee/ZWave sensor devices. It uses LAN interconnection feature, providing an excellent scalability by interworking with various ZigBee/ZWave sensor devices. AP-SH1000 enterprise smart hub and AP-SH1000 application software for smart phone/tab/pad will help to connect to various ZigBee/ZWave based sensors, light switches, thermostats, and other devices. And since this smart hub is compatible with ZigBee/ZWave base smart sensors from various manufactures, AP-SH1000 smart hub can easily add new smart sensor devices in your smart sensor network like as at home, outdoor collaboration application, etc. This product support module based various sensor interface cards like as AP-ZBW100, AP-ZW100, AP-ZW104, etc. AP-ZBW100 sensor interface card supports the dual sensor ZigBee/ZWave interface with external antenna port. AP-ZW100 supports only

supports only ZWave sensor interface with single antenna port. AP-ZW104 sensor interface card supports the ZWave sensor interface with four(4) antenna ports. Long and high gain multi-antenna scheme extends the coverage of ZWave sensor device and are very applicable in small rooms and underground room, etc. AddPac enterprise smart sensor IoT equipment solution is to control ZigBee/ZWave based wireless sensor devices. AddPac enterprise smart sensor IoT equipment solution consists of enterprise smart hub (AP-SH1000), smart hub + wall PAD (AP-SHC300) for small rooms, 7 inch sensor control wall PAD (AP-SWP100), sensor network controller(AP-SNC2000) with application specific management software for large-scale smart hub control, and smart pad/tab and smart phone appl, to provide an excellent scalability. Additionally, sip video door phones, video phones for security guard, access control server with call manager function, etc, are addpac products for security, safety, and cost saving enterprise solution together with IoT solution. AddPac AP-SH1000 enterprise smart hub for ZigBee/ZWave smart sensor devices supports the external antenna interface for ZigBee/ZWave. For indoor application like as office room, small & short antenna style is recommended and this short antenna is directly connected on antenna interface connector of AP-SH1000 smart hub. AddPac AP-SH1000 supports several antennas such as AP-Z-ANT0, AP-Z-ANT1, AP-Z-ANT2 for AP-SH1000 according to ZigBee/ZWave application, location (indoor, outdoor, underground), etc. AP-Z-ANT0 has no cable and very easy to handle. This antenna is very comfortable when AP-SH1000 enterprise smart hub is installed in open space and very close to window side in home or office building when smart sensor is located in window closed area. AP-Z-ANT1 antenna has 2m cable length. So this antenna is very applicable when smart hub is installed in side of room or building and smart sensors are located in outdoor area. This antenna provides reasonable performance when smart hub installation location is also close to window side in office building. But it is little bit difficult to handle and manage because this antenna also has 2m cable length. AP-Z-ANT2 gsm antenna has 20m cable length and big antenna height comparing with previous one. This antenna is special ordering item and expensive. Normally long distance cable antenna length means antenna performance degradation due to resistance characteristic. To compensate performance degradation due to cable length, we increase the antenna height and cable diameter. This antenna is very useful for underground installation when smart hub installation location is too far to window side in office building especially.

## Major Feature

### Overall Features

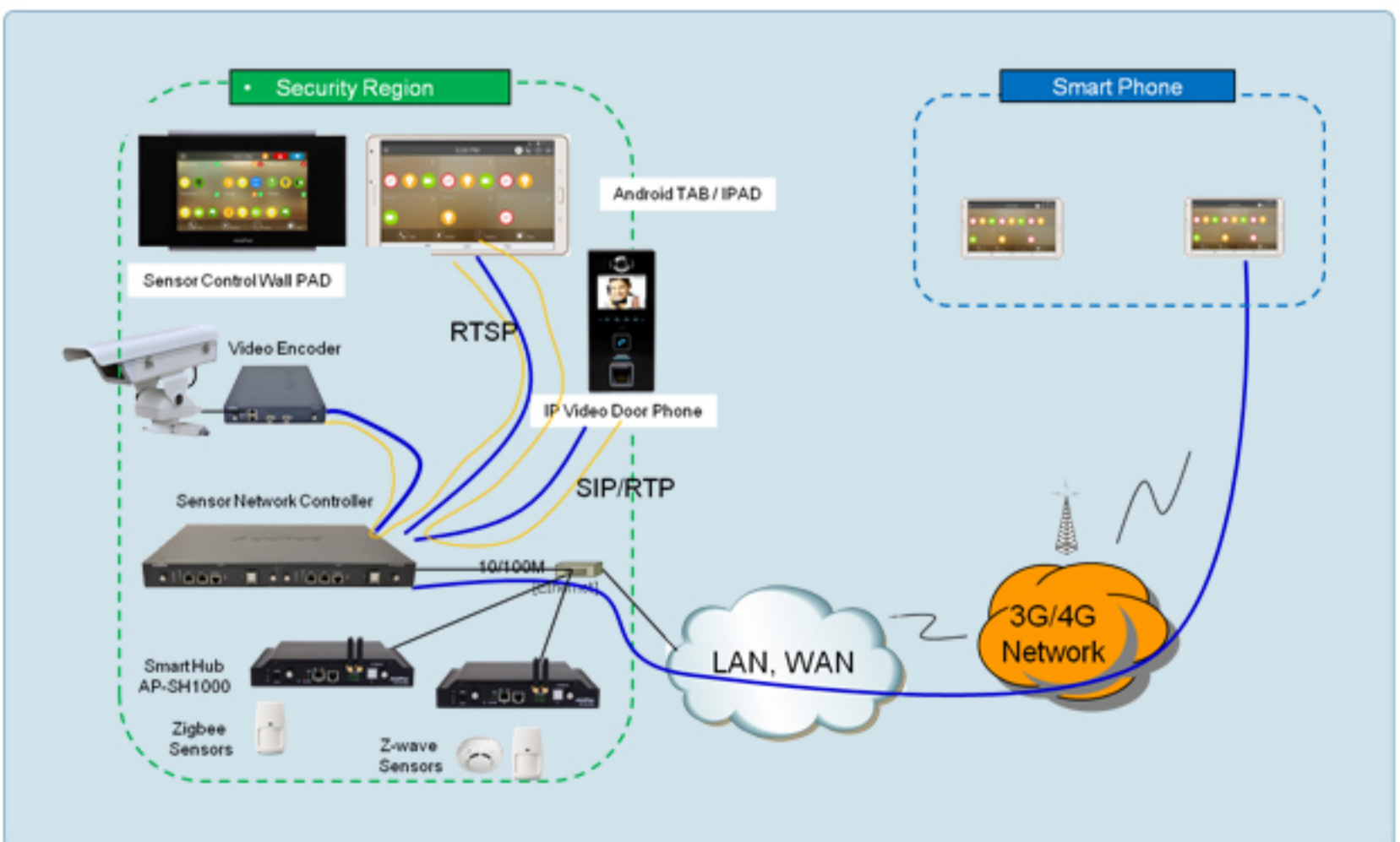
- Advanced Smart Enterprise Solution
- Zigbee/Zwave Dual Sensor Interface Support
- Smart IP Routing Service Features for Sensor Network
- AddPac IoT Solution Interworking Service Features
- Smart Hub Interworking Support for Third Party
- Module Type Hardware Architecture for Flexibility and Scalability
- High Performance RISC Programmable Architecture
- One 10/100Mbps Fast Ethernet
- 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



## Enterprise Smart Hub Comparison Table

Module	AP-ZBW100	AP-ZW100	AP-ZW104
Specification			
ZigBee Interface	Support	N/A	N/A
ZigBee Antenna	1	N/A	N/A
Z-Wave Interface	Support	Support	Support
Z-Wave 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

## Network Diagram



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