

ZXHN H512A Product Introduction



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Passthrough 200Mbps Power Line – H512A

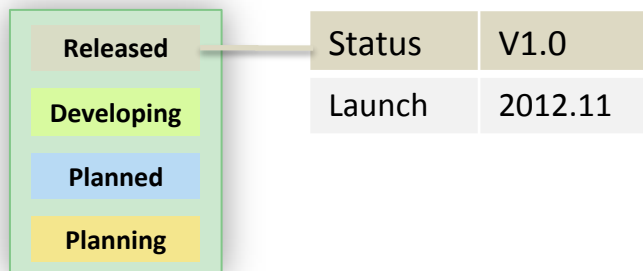
Wireless Router		Mini AP	PLC		
Cost Effective	High Performance		Wallmount	Passthrough	Hybrid PLC + Wi-Fi



Physical Interface	1xPower plug 1xPower socket 1xFE
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Features

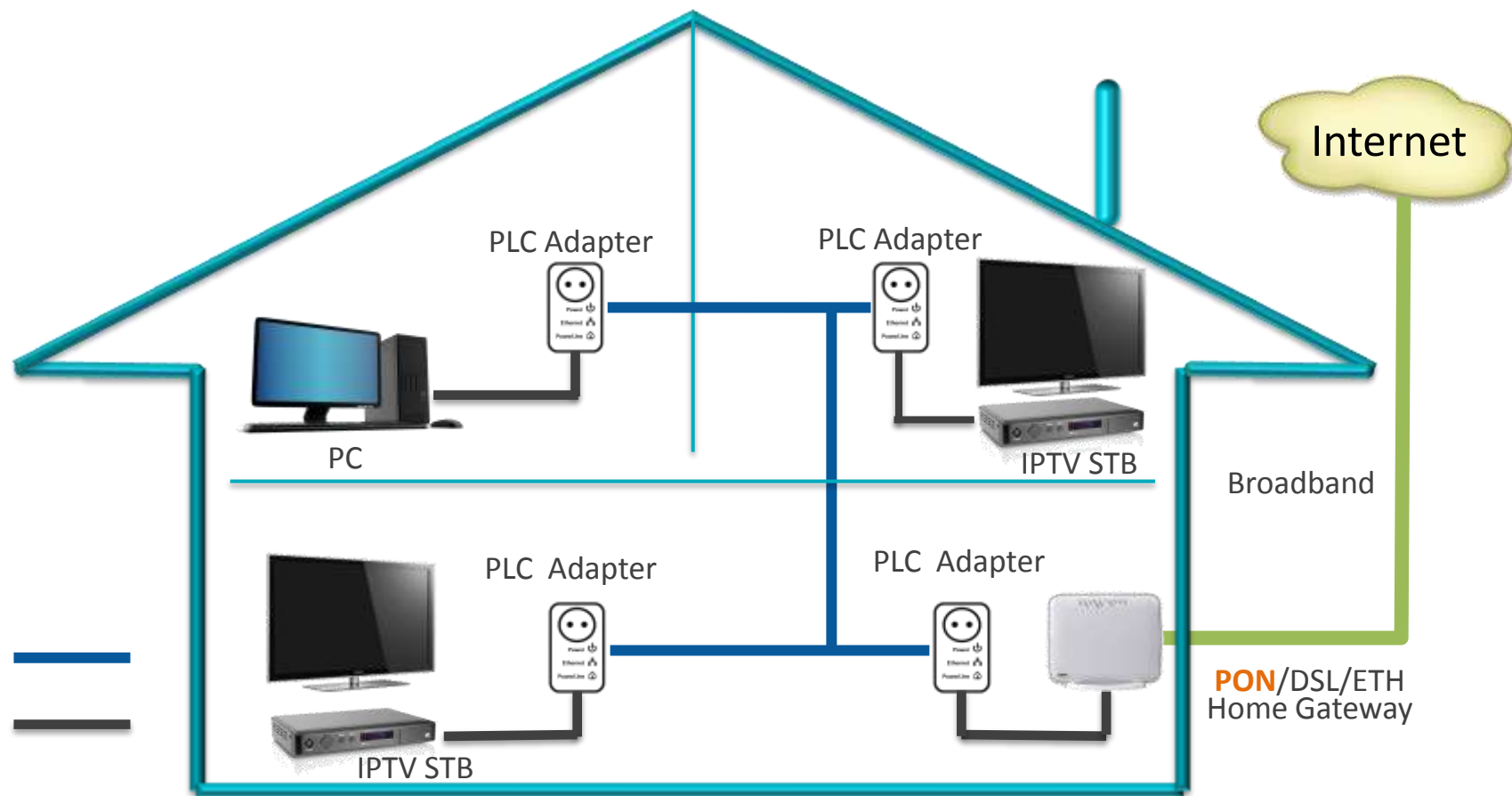
- Built-in filter and power socket, maximize power line communication performance
- Passthrough type with power voltage range of 100 to 240 VAC 50/60Hz
- HomePlug AV Compliant
- Up to 200 Mbps data rate on the power line
- Advanced security with 128-bit AES Link Encryption
- Dynamic channel adaptation and estimation
- Windowed OFDM with noise mitigation
- Enhanced QoS
- Supports IGMP managed multicast sessions
- Co-existence with HomePlug 1.0



H512A Application Scenario 1 – No New Wires

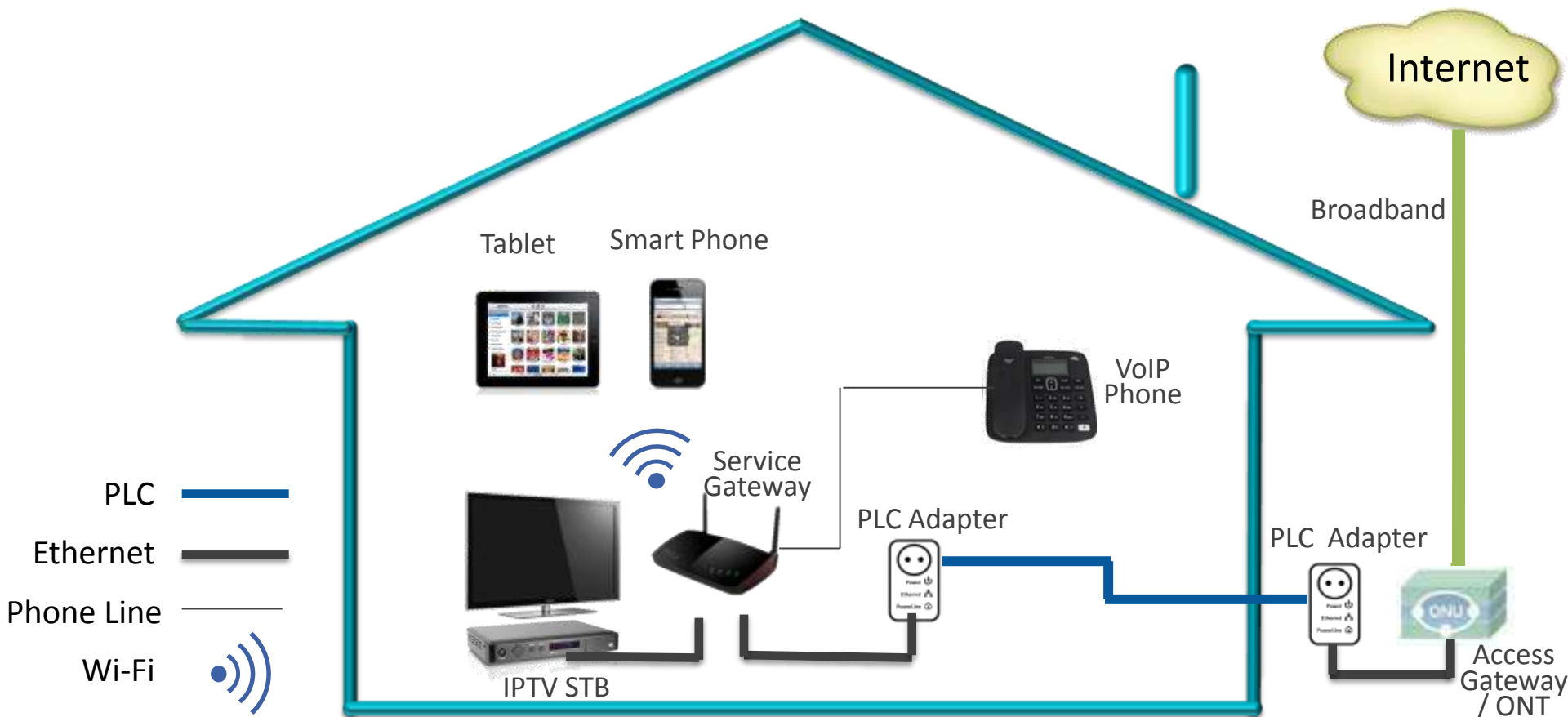
Home Network

- No New Wires – Saves wiring of Ethernet cables and home decoration
- Fit for video distribution like two or more STBs
- Support several HD Streams simultaneously without drops or resets



H512A Application Scenario 2 – For 1+1 Deployment

- For homes with 1+1 – Access Gateway + Service Gateway
- Especially in most FTTH deployments, a simple ONT and a Service gateway are deployed.



ZXHN H512A Highlights

Flexible Networking and Capex Saving

Flexible Networking

- No new wires needed and capex saving for customer for home networking
- PLC complies HomePlug AV, IEEE 1901
- Neighbor Network Isolation
- Supports IGMP managed multicast sessions

Perfect QoS Support

- Priority-based CSMA/CA channel access schemes maximize efficiency and throughput.
- QoS to guarantee delivery of videotraffic
- Class priority based on VLAN/TOS field and IP address/Port

Best-in-class Performance

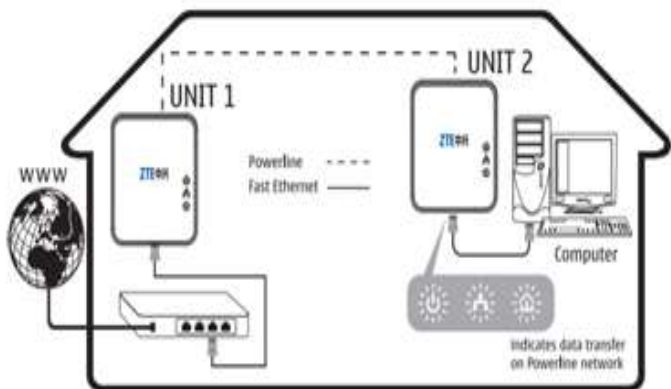
- Up to 200M bps data rate
- Optimized PSD to maximize performance
- Wide dynamic range and high sensitivity for best weak signal performance
- Automatic sleep mode to save power consumption
- Low Power Mode Complies CoC

Easy installation and Multiple Stream Support

User Friendly Experience

- Plug & Play without configuration for easy installation
- Dedicated led designing for data rate and diagnosis
- One-Press pairing network to join or leave network
- Pass through type with built-in filter saves power socket cost for better customer experience
- Small size for easy placement

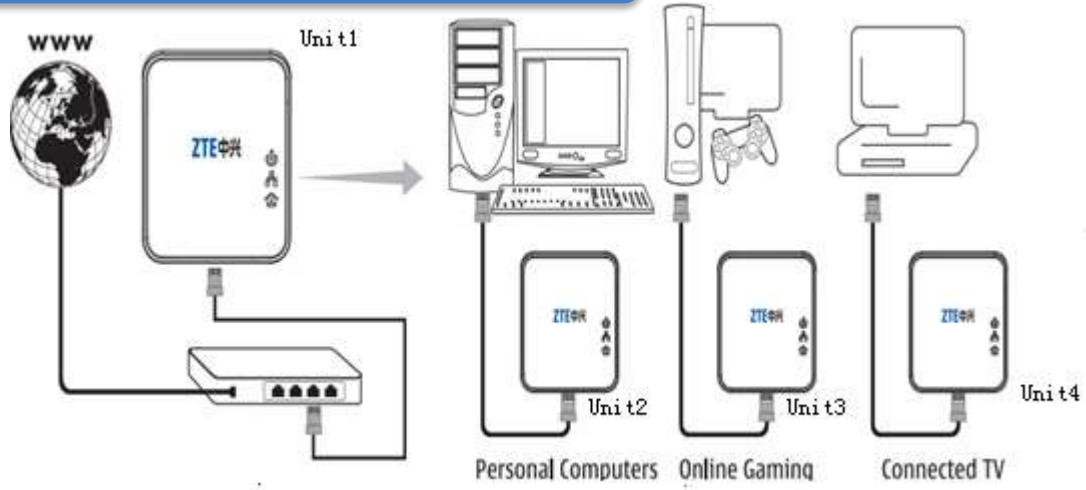
Easy Installation of ZTE PLC Solution



- Insert unit 1 and unit2 to the power socket
- Connect Unit1 to routers
- Connect Unit2 to your PC
- After DATA led turns to solid green, H51X network is now ready. You can use your PC for Internet surfing.

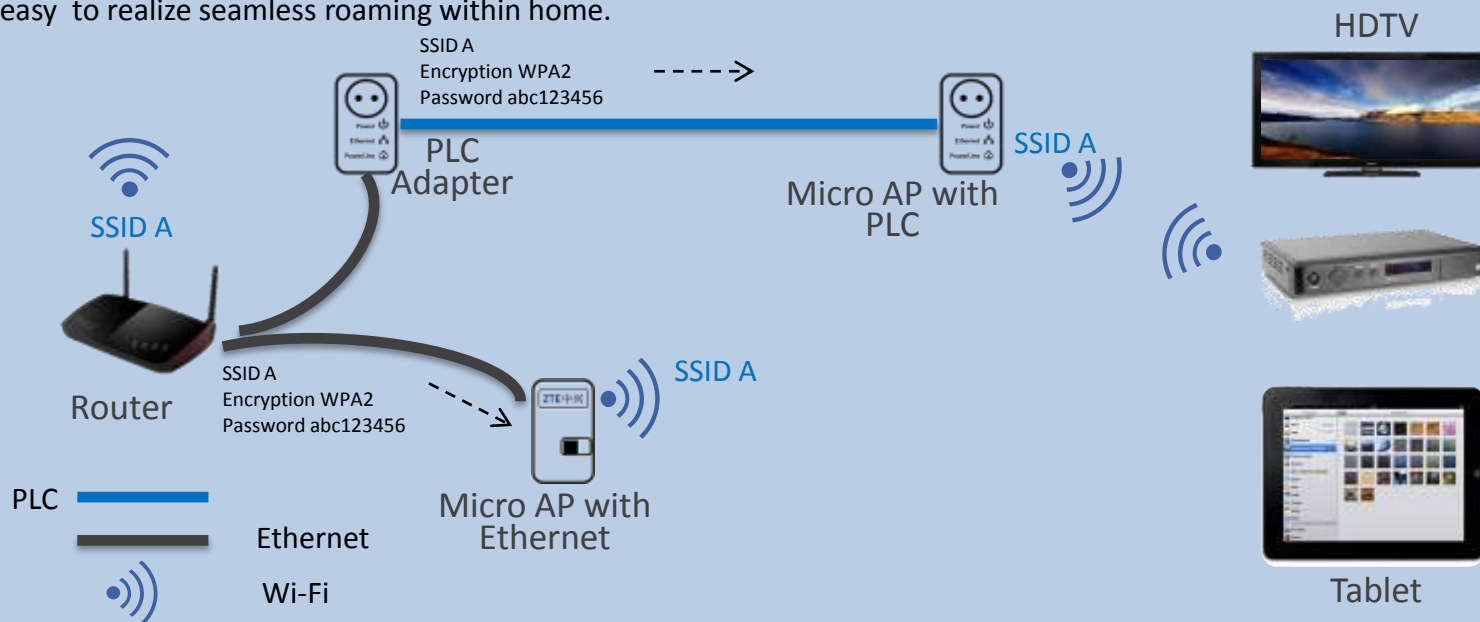
Plug & Play without Configuration

- Plug in the additional H51X UNIT3, the DATA led of UNIT3 will turn into solid green
- Wait until the POWER and the DATA leds of UNIT3 are solid green.
- The UNIT3 is now a member of the PLC local network.
- The Unit 4 is the same step for use.



NetSphere™ for Zero-Touch Auto Configuration

- When Micro APs power up, they will download configuration files from the router and configure the parameters automatically.
- It's easy to realize seamless roaming within home.



Net Sphere™ is a ZTE-unique function applied when multiple wireless routers and APs are deployed. Its features as below:

- Zero-touch configuration for plug and play convenience
- Seamless roaming without service interrupt ion
- Flexible networking & CAPEX reduction

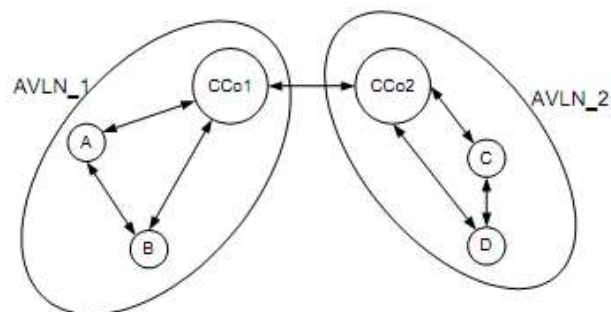
Security of ZTE PLC Solution

Security

- Based on a Pre-shared Network Membership Key
- Encryption based on 128-bit AES
- Peer-to-Peer communications within the network for high security and bandwidth

Neighbor network

- Different AVLNs insulate Neighbors logically
- CCoS may coordinate bandwidth between Neighbor network



IGMP Support of ZTE PLC Solution

IGMP Snooping for multicast management

Multicast to unicast mechanism

- If IGMP table is established , Node will transform multicast stream to unicast destination devices interested in the stream.
- The mechanism brings more reliability despite it costs more bandwidth.


Bringing you Closer

Thanks!