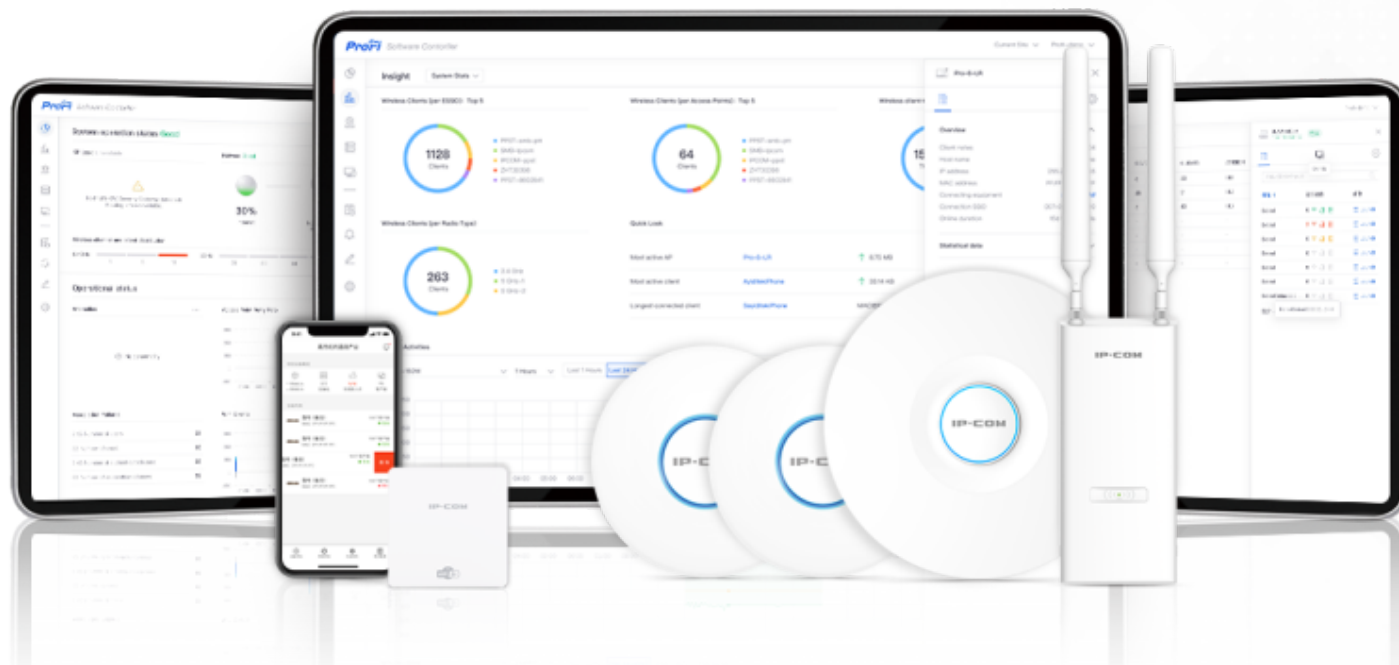


# IP-COM Whole-Home Gigabit Wi-Fi Networking Solution

——Large suite/House with 4-8 rooms scenarios



1. Requirements
2. Solutions
3. Benefits
4. Recommendations

# 1. Requirements of house scenarios

- 1. Video calling, online games, streaming media, etc
- 2. Smart speakers and other smart home devices
- 3. To keep decoration style

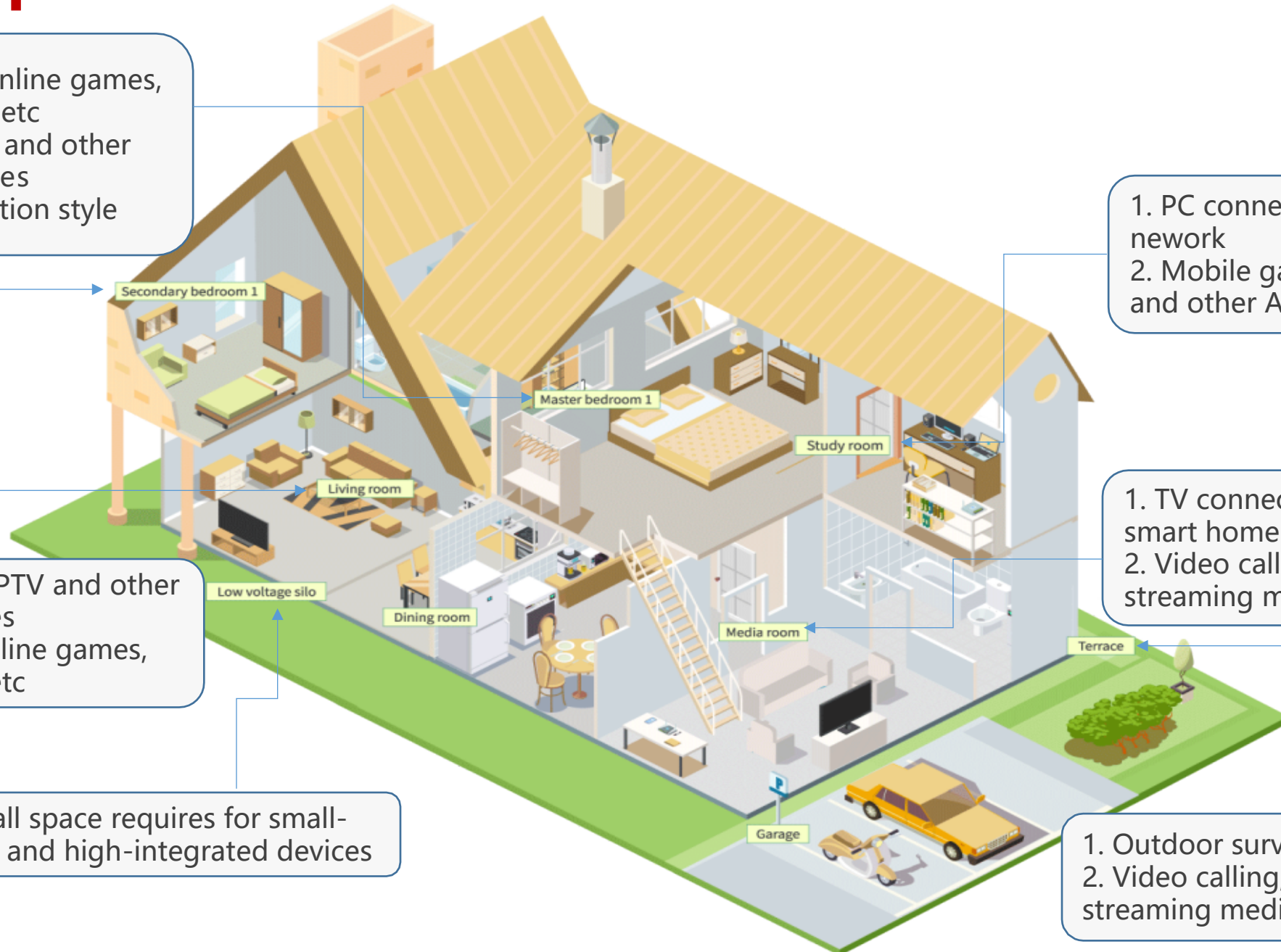
- 1. PC connects to wired network
- 2. Mobile games, video and other APPs

- 1. TV connects to IPTV and other smart home devices
- 2. Video calling, online games, streaming media, etc

- 1. TV connects to IPTV and other smart home devices
- 2. Video calling, online games, streaming media, etc

Small space requires for small-size and high-integrated devices

- 1. Outdoor surveillance cameras
- 2. Video calling, online games, streaming media, etc



# 1. Requirements Summary

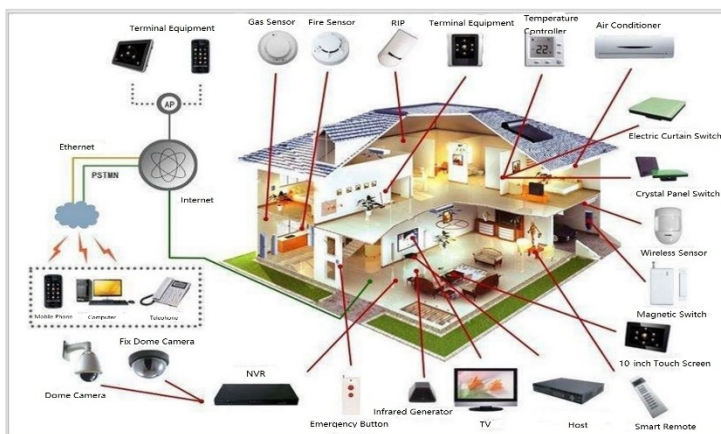
1 Gaming, calling and watching video without latency



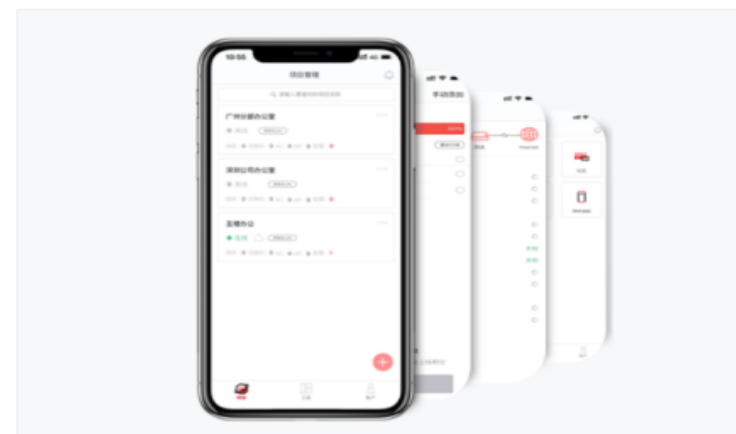
2 WiFi coverage to every corner



3 All smart home devices can connect to WiFi

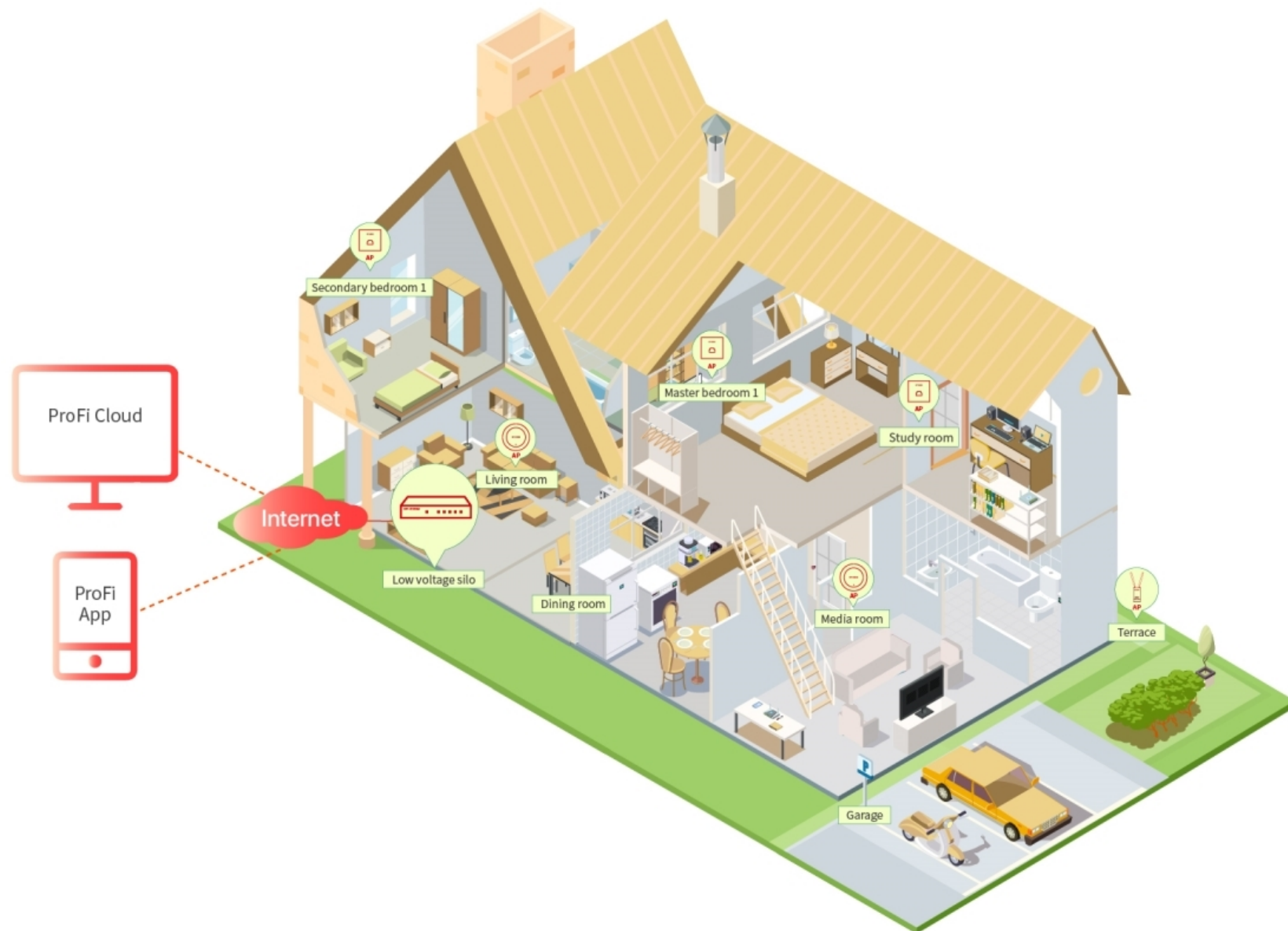


4 Small size with pleasant appearance



1. Requirements
2. **Solutions**
3. Benefits
4. Recommendations

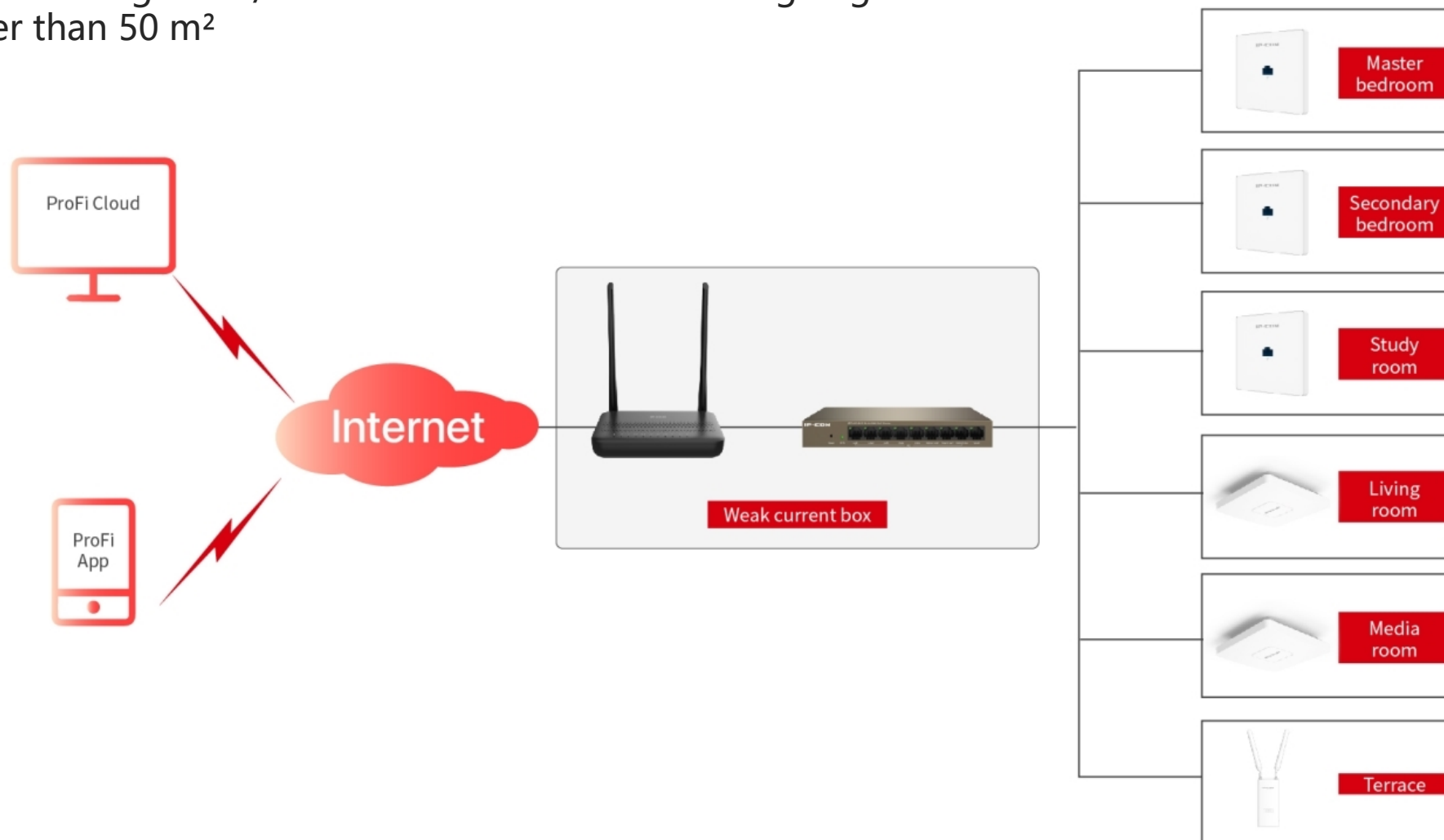
## 2. Solutions——General Design





## 2. Solutions——Network topology

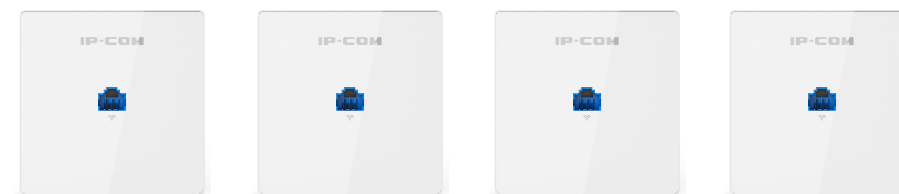
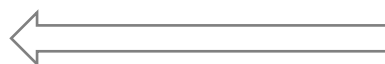
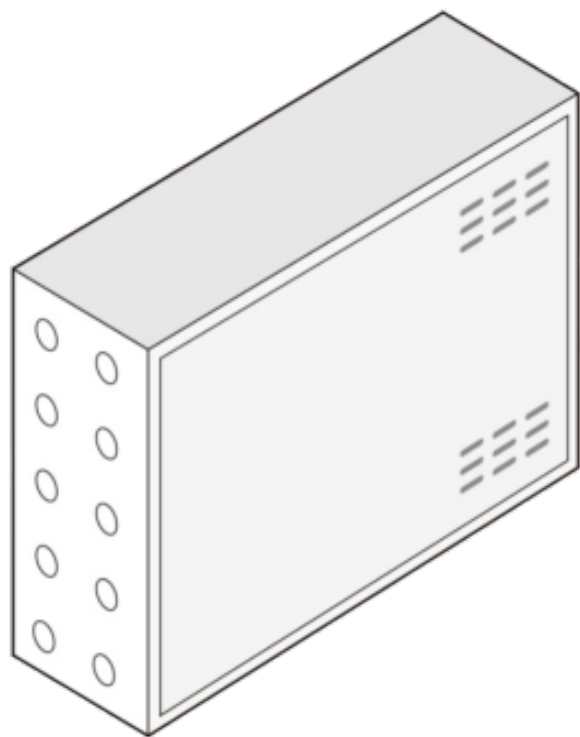
- Large suite/House with 4-8 rooms
- Put Router in low voltage silo
- Ceiling AP for living room/media room larger than 50 m<sup>2</sup>
- APs powered by PoE router through Ethernet cable
- A in-wall AP each room
- Outdoor AP for garage and terrace



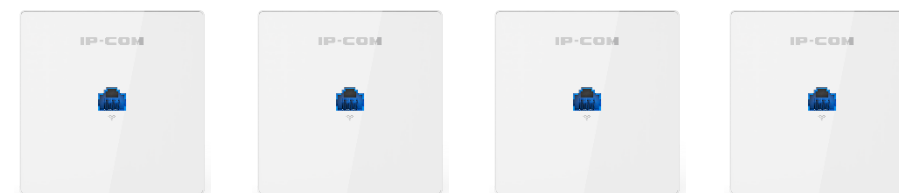
## 2. Solutions——Key Locations Network Deployment

### Low voltage silo

The enterprise-class 8-port PoE router is highly integrated and easy to install, suitable for large duplex house scenarios, can easily fit any tiny low voltage silo.



**8 ports, high power PoE output**



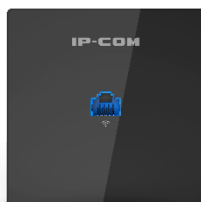


## 2. Solutions——Key Locations Network Deployment

### Bedroom, study room

One AP covers one room, which provides stable and fast WiFi to ensure smooth gaming and streaming experience without latency. 86 type mounting box can be perfectly integrated into different decorative styles

**W36AP:** 86 type mounting box, **multiple colour** available, dual-band concurrent rates up to 1167 Mbps



**Pro-6-IW:** **Easy installation** without any tools; also supports 86 type mounting box installation; wireless rate up to **3000Mbps**



## 2. Solutions——Key Locations Network Deployment

### Living room, Media room

Use ceiling APs to ensure signal coverage in large space without dead corners, provide a good WiFi experience for the whole house

**W63AP:** Ceiling mounted, dual-band wireless rates up to 1167 Mbps



**Pro-6-LR:** High power design with large coverage; Wi-Fi 6 standard, wireless rates up to 3000Mbps



## 2. Solutions——Key Locations Network Deployment

### Garage, Terrace, Swimming pool

Use IP65 standard outdoor APs to meet the demands of harsh environments

**iUAP-AC-M:** IP65 level dust and water protection, 6KV lightning protection, High-gain omni-directional antenna

**Pro-6-M:** IP65 level dust and water protection, 6KV lightning protection, High-gain omni-directional antenna, Wi-Fi 6 standard, wireless rates up to 3000Mbps



1. Requirements
2. Solutions
3. **Benefits**
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# 3. Benefits

## Benefit 1: Integrated Router, AC Controller and PoE Power Supply, easy to install and manage



Full-featured and Cost-saving

No need for an AC controller and PoE switch, much lower solution cost.



SG-PRO-9P

=



Router

+




AP controller

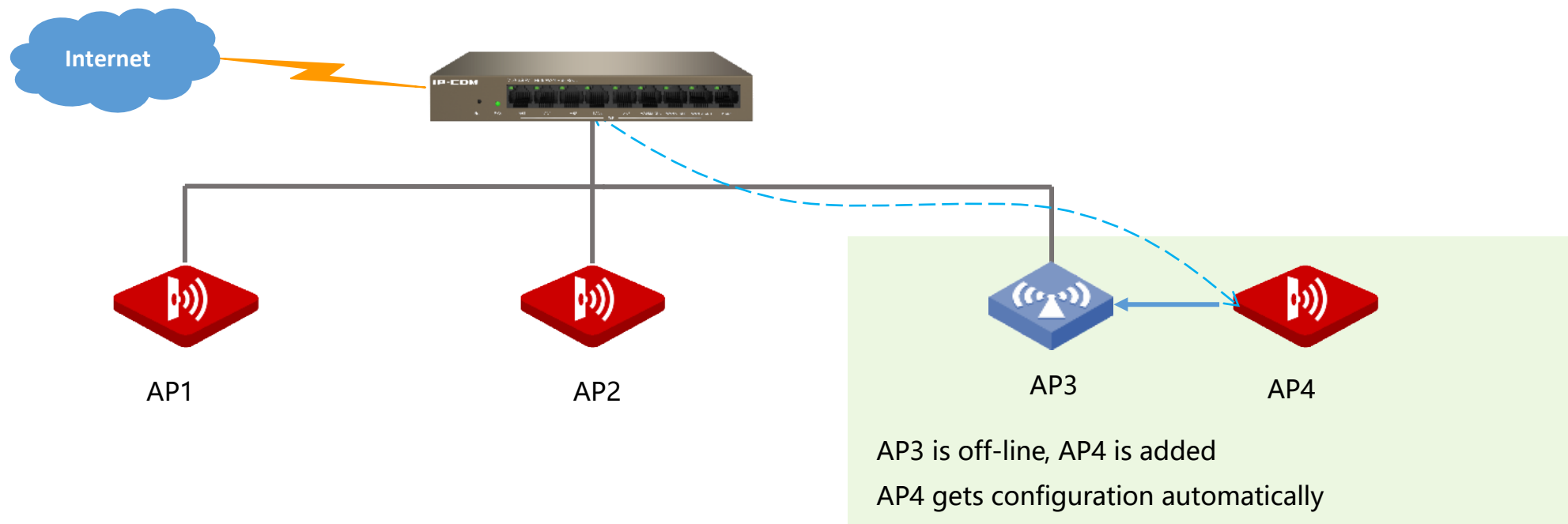


8 ports PoE  
Switch

# 3. Benefits

## Benifit 2: Smart AP Management, Plug and play

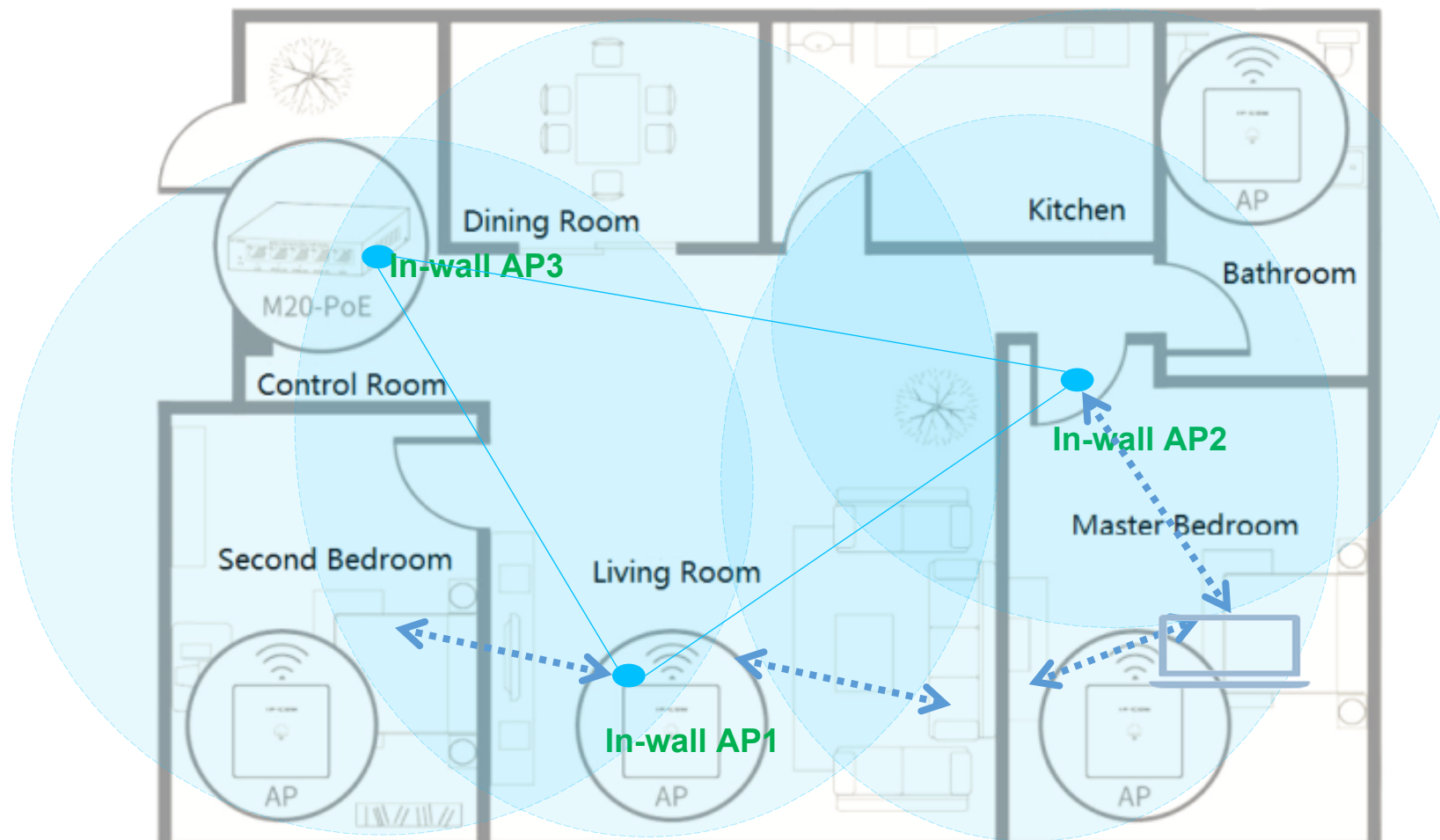
 **Function design:** The device provides an easy to use management webpage and the network configuration can be done in less than 5 minutes. The device supports Smart AP Management. The device supports Smart AP Management, wireless configurations are automatically extend to the new AP when network topology has changed(replaced or added)



# 3. Benefits

## Benefit 3: Seamless roaming, WiFi on the go

- Smooth WiFi switching, network in every corner
- APs support 802.11v/r seamless roaming protocol and automatic nodes switching, with roaming speed of up to 50ms between different nodes in multi-point deployment scenarios.



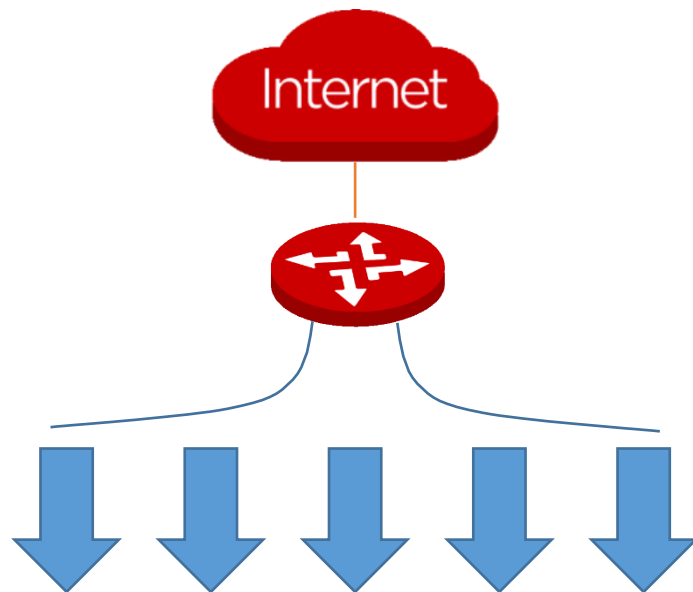


# 3. Benefits

## Benefit 4: Intelligent bandwidth management to ensure each person has good connection



**Value:** The router performs intelligent bandwidth management according to the bandwidth usage rate. Effectively solves the problem of a device occupying all network resources and improves the network experience.



Add

IP Group:

1

▼

Time Group:

▼

Concurrent Sessions Per Device:

Mode:

☒ Shared ☐ Exclusive

Upload:

KB/s

Download:


KB/s

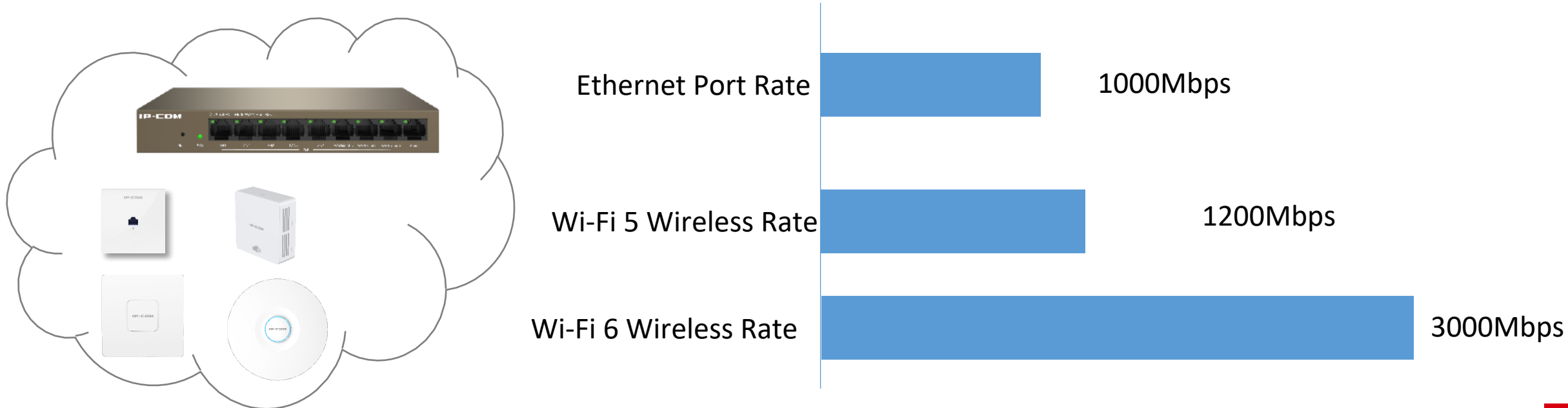
OK

Cancel

# 3. Benefits

## Benefit 5: Gigabit Bandwidth

-  Full Gigabit wireless network to unleash every megabit of your bandwidth
- Connected gigabit ports with dual-band gigabit Aps, enhance the performance of network experience.



# 3. Benefits

## Benifit 6: Quick set-up wizard, Plug and play



Quick set-up wizard, no engineering experience required

**Installation:** A quick setup wizard automatically pops up when you connect to Wi-Fi, so you can complete your network setting in two easy steps.

**Maintenance:** APP & Cloud platform ensure real-time project status monitoring, aftersales maintenance and remote operation.

The screenshot shows the IP-COM web interface. The top navigation bar includes 'Dashboard', 'Maintenance', 'Network Configuration', 'Wireless Configuration', 'RF Optimization', 'Device Maintenance' (highlighted), 'Statistics', and 'System Tools'. The 'Device Maintenance' section displays a table with columns: Model, Status, Remarks, Management Mode, IP Address, MAC Address, Software Version, Online Duration, and Offline Duration. A single device is listed: Pro-6-LR, Online, Pro-6-LR2681a8, Cloud Management, 192.168.1.100, C83A3526:81:A8, V1.0.0.19(2528), 3m 8s, and -. A hand cursor is pointing at the pagination controls showing 'Total 1 items' and '1 / 10 items/page'.

Model	Status	Remarks	Management Mode	IP Address	MAC Address	Software Version	Online Duration	Offline Duration
Pro-6-LR	Online	Pro-6-LR2681a8	Cloud Management	192.168.1.100	C83A3526:81:A8	V1.0.0.19(2528)	3m 8s	-

The 'Add Wireless Policy' dialog box is shown. It contains the following fields and options:





- SSID: Enter SSID (with a 'Hide' checkbox).
- Security Mode: WPA2-PSK (dropdown).
- Encryption Rule: TKIP+AES (dropdown).
- Wi-Fi Password: (password field).
- Password Update Interval: 0.
- VLAN: 0 (with a help icon and an 'Enable' checkbox).
- Maximum Number of Clients: 40.
- Guest Network Mode: ☐ Enable ☒ Disable.

At the bottom, there are 'Cancel' and 'Confirm' buttons. A hand cursor is pointing at the 'Confirm' button.

1. Requirements
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# 4. Recommendations

## ——Cost-effective Wi-Fi5 solution

Scene	Device	Model	Image	Features	Layer
Low voltage silo	Router	SG-PRO-9P		<ul style="list-style-type: none"><li>• 9*Gigabit Ethernet ports, 8*PoE ports</li><li>• Single port PoE budget 30W</li><li>• Whole device PoE Power Supply: 95W</li></ul>	Core layer
Bedroom/Study room	In-wall AP	W36AP		<ul style="list-style-type: none"><li>• 300Mbps+867Mbps</li><li>• 2*Gigabit Ethernet ports</li><li>• 18dBm+16dBm</li></ul>	Access layer
Living room/Media room	In-wall AP	W63AP		<ul style="list-style-type: none"><li>• 300Mbps+867Mbps</li><li>• 1*Gigabit Ethernet port</li><li>• 26dBm+26dBm</li></ul>	Access layer
Garage/Terrace/Swimming pool	Outdoor AP	iUAP-AC-M		<ul style="list-style-type: none"><li>• 300Mbps+867Mbps</li><li>• 1*Gigabit Ethernet port</li><li>• 26dBm+26dBm</li><li>• IP65 level protection</li><li>• 5dBi gain omni-directional antenna</li></ul>	Access layer

# 4. Recommendations

## ——High Performance Wi-Fi6 Solution

Scene	Device	Model	Image	Features	Layer
Low voltage silo	Router	SG-PRO-9P		<ul style="list-style-type: none"><li>• 9*Gigabit Ethernet ports, 8*PoE ports</li><li>• Single port PoE budget 30W</li><li>• Whole device PoE Power Supply: 95W</li></ul>	Core layer
Bedroom/Study room	In-wall AP	Pro-6-IW		<ul style="list-style-type: none"><li>• 574Mbps+2402Mbps</li><li>• 2*Gigabit Ethernet ports</li><li>• 20dBm+20dBm</li></ul>	Access layer
Living room/Media room	Ceilling AP	Pro-6-LR		<ul style="list-style-type: none"><li>• 574Mbps+2402Mbps</li><li>• 2*Gigabit Ethernet ports</li><li>• 29dBm+29dBm</li></ul>	Access layer
Garage/Terrace/Swimming pool	Outdoor AP	Pro-6-M		<ul style="list-style-type: none"><li>• 300Mbps+867Mbps</li><li>• 1*Gigabit Ethernet port</li><li>• 26dBm+26dBm</li><li>• IP65 level protection</li><li>• 5dBi gain omni-directional antenna</li></ul>	Access layer

**IP-COM / THANKS**

WORLD WIDE WIRELESS