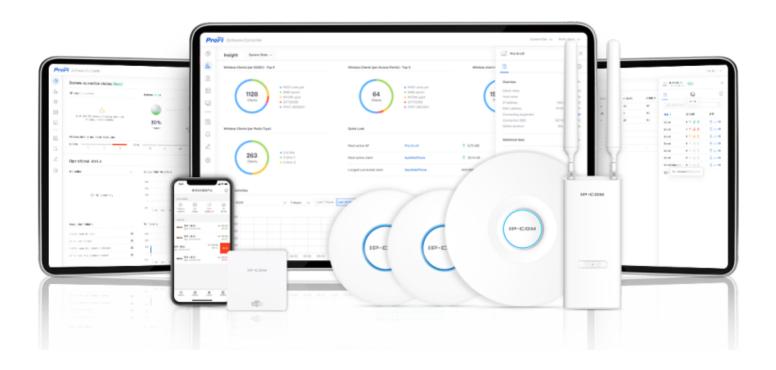


### **IP-COM Chain Hotel WLAN Solution**

——Chain Hotel



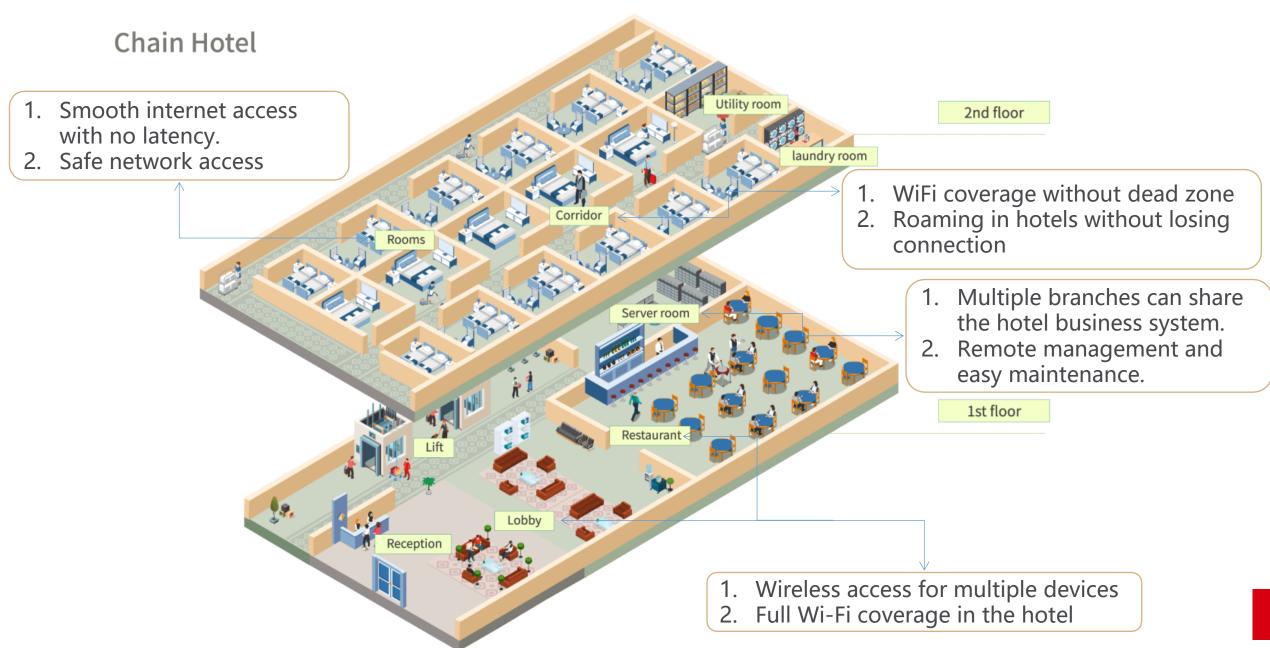
## **Catalogue**



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

### 1. WLAN requirements of chain hotel scenarios





### 1. Requirements Summary



Simple and reliable centralized management



3 Good WiFi experience



2 Good internet security



Simple maintenance and Low failure rate



## **Catalogue**



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# 2. Solution—Key Locations Network Deployment





**Chain Hotel** 



#### **Server room**

IP-COM Multi-WAN Hotspot Router M50 is designed for small- and medium-sized enterprises to implement intelligent network access and management. It offers an AP management system and a multi-authentication management system, and supports various enterprise-oriented functions including filter management, intelligent bandwidth management, PPTP/L2TP/IPSec VPN, and multi-WAN

# 2. Solution—Key Locations Network Deployment





**Chain Hotel** 

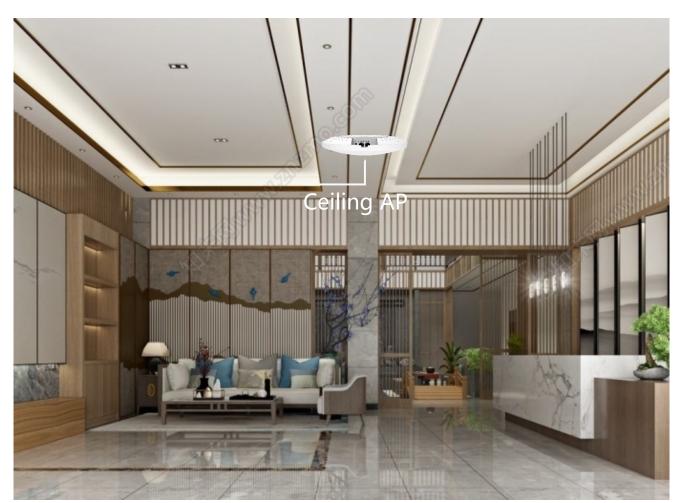


#### AP Controller——AC1000

IP-COM AC1000 is an AP conctroller, sepcially designed to manage quantities of APs in the netwrok for SMB such as budget hotels, K-12 schools. Abandant wireless features management including editing AP's deployment location, SSID, Security key, RSSI threshold, Client limitation, VLAN, output power, Client isolation, SSID isolation, 5G band steering. Also it can monitor AP and clients online status. All these features help the administrator to install, manage and monitor APs at a single location.

# 2. Solution—Key Locations Network Deployment Value-added Wi-Fi





#### VLAN Mapping, Multi SSID

The hotel office network and the guest network use different SSIDs and access methods, and different SSIDs are mapped to different VLANs to ensure the data security of the office network.

## WEB authentication, Precise placement of advertising



**Scene:** Large area and large number of access terminal devices

AP deployment: dual-band ceiling AP for coverage

### 2. Solution—Hotel room



#### Hotel room AP deployment: deploy a gigabit dual-band in-wall AP in each room

The hotel rooms are small in size with fewer connected terminal devices. One in-wall AP is deployed in each room, which not only meets the coverage requirements of a single room, but also improves the WiFi access experience in the room.



Scene: Small area, few terminal devices











### **In-Wall AP**

Elegant appearance

Stylish design with a wide range of colours to suit all decoration styles.

Easy installation

Supports PoE power supply and only requires one Ethernet cable.

High speed

3000Mbps wireless rate without wall penetration

### 2. Solution—Public areas



# Corridor/public area AP deployment: Deploy a dual-band ceiling AP every 15-20 meters

Use ceiling-mounted APs to ensure full coverage of the hotel's internal wireless network for Corridors and other indoor public areas of the hotel



**Scene:** large area and few terminal devices. **AP deployment:** dual-band ceiling AP for coverage







### **Ceiling AP**

Large coverage

High-power and highgain omnidirectional antenna design, single AP coverage up to 500 m<sup>2</sup>. Good roaming

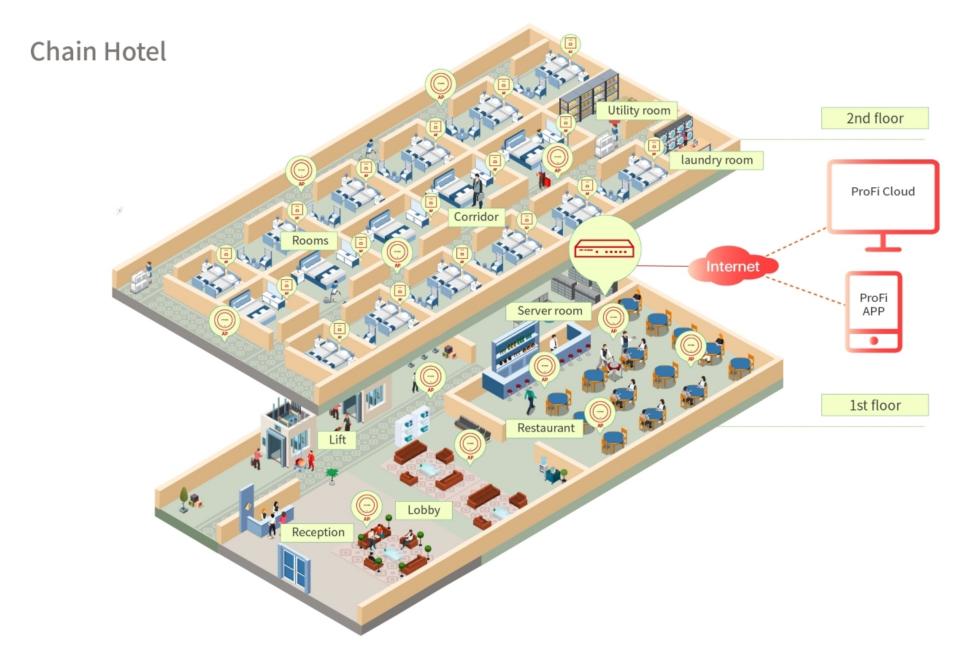
It supports fast roaming protocols 802.11K, V, and R, and terminal devices can make smooth wireless switching.

High speed

WiFi 6 standard, 3000 Mbps rate, WiFi access to high-speed network without lag.

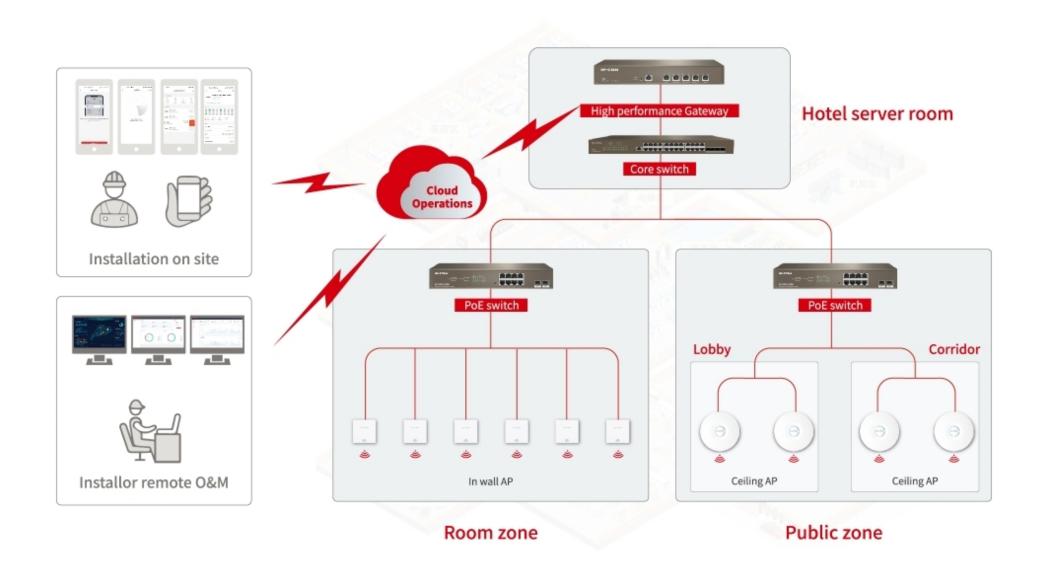
## 2. Solution—General Design





### 2. Solution—Network topology





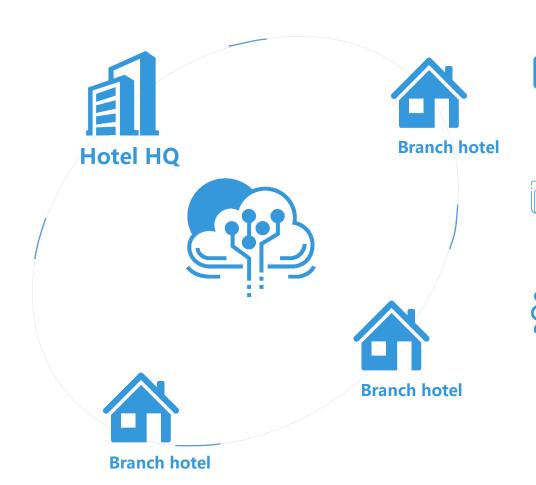
## Catalogue



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### 3. Benefits——Centralized Management





#### Multi WAN Load Balance

M50 supports 4 WAN ports. It can realize bandwidth averaging between two WAN ports base IP Group. Also it reserve the possibility of bandwidth expansion in the future.

#### **Captive portal and PPPoE server**

M50 integrates with captive protal service. A landing page will pop-up when mobile device connect to wifi network. Once username and password is provided, the user will be able to access Internet.

#### **Built-in AP Controller**

M50 intergrates with AP controller to manage all IP-COM indoor access point. It will discover AP automatically when AP connect into network. You can edit AP's deployment location, SSID, Security, Output power, client limitation for SSID, Schedule Reboot etc function on the WEB UI at a single location.

### 3. Benefits—Large WiFi coverage



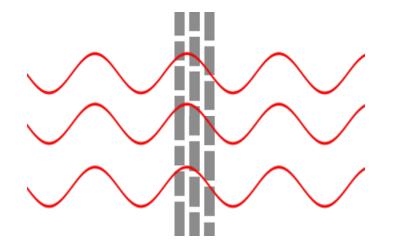


High power and high gain

Better Penetration

Coverage without dead

zone



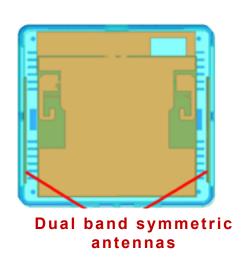


Dual band symmetrical PCB independent antenna

Higher antenna gain than traditional APs

better signal

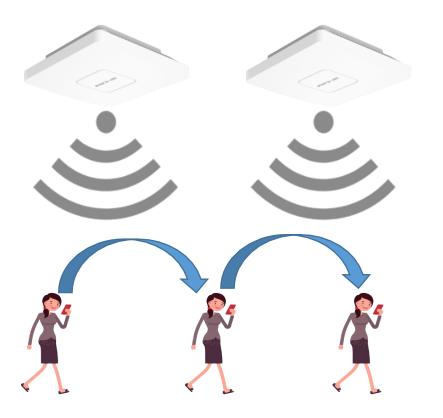
larger coverage



### 3. Benefits—High quality wireless experience

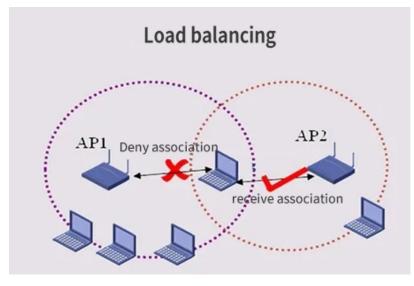


#### **Seamless roaming**

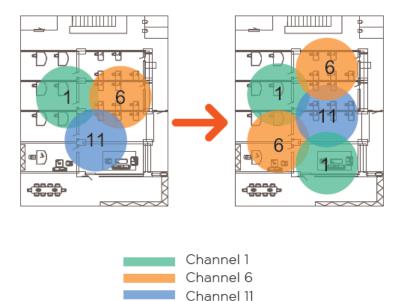


smooth switching

#### **Load balancing**



#### **Automatic channel optimisation**



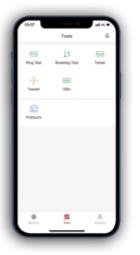
Fit high-density environment

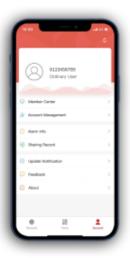
Automatically reduce inter-AP interference

# 3. Benefits—Easy to use, effortless project experience









 Automatic pre-sales solution generation and online consultation;



Rapid negotiation, no struggle for solutions

 Gateway, switch, AP managed by APP APP One-key Network configuration;



Rapid deployment, simple operation and maintenance

 Engineering acceptance tests, e.g. signal, network speed;



Rapid acceptance, no delays in project delivery

Automatic report generation

## **Catalogue**



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# 4. Recommendations —Cost-effective WiFi5 solution



Scene	Device	Model	Image	Features	Layer
Server room	Multi-WAN Hotspot Router	M50	WE COM	<ul> <li>5*Gigabit RJ45 ports, supports 4 broadband accesses</li> <li>PPPoE,WEB,SMS authentication</li> <li>Maximum user capacity: 200</li> <li>MAX AP Manage number:100</li> <li>Captive Portal: 300</li> <li>Smart Bandwidth Control</li> </ul>	Core layer
Server room	AP Controller	AC1000	IP-COM	•Maximum AP managed number: 128 •5 Gigabit Ethernet Ports	Core layer
Hotel server room	Switch	G5328X		<ul> <li>•24*Gigabit RJ45 ports, 4*10 Gigabit SFP ports</li> <li>•Switch capacity 598Gbps</li> <li>•DHCP server, Layer 3 dynamic and static routing, Cloud/App management</li> </ul>	Core layer
Low voltage silo on floors	Switch	G3326P-24-410W		<ul> <li>•24*Gigabit RJ45 ports + 2 Gigabit SFP ports</li> <li>•PoE budget of whole device: 410W</li> <li>•Cloud/App management</li> </ul>	Access layer
Hotel room	In-wall AP	W36AP	un-cora	•300Mbps+867Mbps •2*Gigabit RJ45 ports •18dBm+16dBm	Access layer
Corridor/Other public area	Ceiling AP	W63AP	HP-CSM	•300Mbps+867Mbps •1*Gigabit RJ45 port •26dBm+26dBm	Access layer

# 4. Recommendations—High Performance WiFi6 Solution



Scene	Device	Model	lmage	Features	Layer				
Server room	Multi-WAN Hotspot Router	M50	The same of the sa	<ul> <li>5*Gigabit RJ45 ports, supports 4 broadband accesses</li> <li>PPPoE,WEB,SMS authentication</li> <li>Maximum user capacity: 200</li> <li>MAX AP Manage number:100</li> <li>Captive Portal: 300</li> <li>Smart Bandwidth Control</li> </ul>	Core layer				
Server room	AP Controller	AC1000	IP-COM	•Maximum AP managed number: 128 •5 Gigabit Ethernet Ports	Core layer				
Hotel server room	Switch	G5328X		<ul> <li>•24*Gigabit RJ45 ports, 4*10 Gigabit SFP ports</li> <li>•Switch capacity 598Gbps</li> <li>•DHCP server, Layer 3 dynamic and static routing, Cloud/App management</li> </ul>	Core layer				
Low voltage silo on floors	Switch	G3326P-24-410W		<ul> <li>•24*Gigabit RJ45 ports + 2 Gigabit SFP ports</li> <li>•PoE budget of whole device: 410W</li> <li>•Cloud/App management</li> </ul>	Access layer				
Hotel rooms	In-wall AP	Pro-6-IW		•574Mbps+2402Mbps •2*Gigabit RJ45 ports •20dBm+20dBm	Access layer				
Corridor/Other public area	Ceiling AP	Pro-6-LR		•574Mbps+2402Mbps •2*Gigabit RJ45 ports •29dBm+29dBm	Access layer				

#### IP-COM / THANKS

WORLD WIDE WIRELESS