



# iGATE AP1IH SERIES

## INDOOR ACCESS POINT

The **iGate AP1IH Series** access point deliver high performance and superb user experience for medium density indoor environments. The **iGate AP1IH Series** are part of the VNPT Technology's Total Wi-Fi Solution of 802.11ac-enabled access points, delivering a robust mobility experience. In addition, the access point can be used to integrate in other Wi-Fi solutions that comply with standards protocols (e.g. RADIUS, CAPWAP, EAP, etc.)

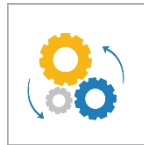
Featuring 802.11ac wave 1 with 3x3 MIMO antenna & Band Steering, the **iGate AP1IH Series** enable an all wireless digital work environment in a cost-effective manner. With a maximum concurrent data rate of 1300 Mbps in the 5GHz band and 900 Mbps in the 2.4 GHz band, the **iGate AP1IH Series** bring an always-on wireless network experience with the performance required for Enterprise and Communications Service Provider (CSP). It is a deal for cost sensitive medium density indoor environments across verticals.



## PRODUCT HIGHLIGHTS



**High reliability**  
Dual Power Supply  
Dual Band



**Easy Management**  
WebGUI/CLI  
VNPT Technology's ONE  
Controller



**Global Standards**  
IEEE 802.11b/g/n@2.4G  
IEEE 802.11a/n/ac@5G  
IEEE 802.11k,v



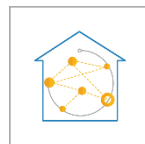
**Flexible Configuration**  
Plug and Play  
Remote configuration  
Automatic FW Upgrade



**Multi-WAN**  
Ethernet  
Repeater  
4G/LTE (USB)



**Dual Band Radio**  
Software-  
configurable dual  
band radio 2,4 GHz  
& 5 GHz



**MIMO Antenna**  
3x3 MIMO  
External Antenna



**Wi-Fi Offload**  
Non Seamless Wi-  
Fi Offload (NSWO)



**High Performance**  
1.7Gbps BW

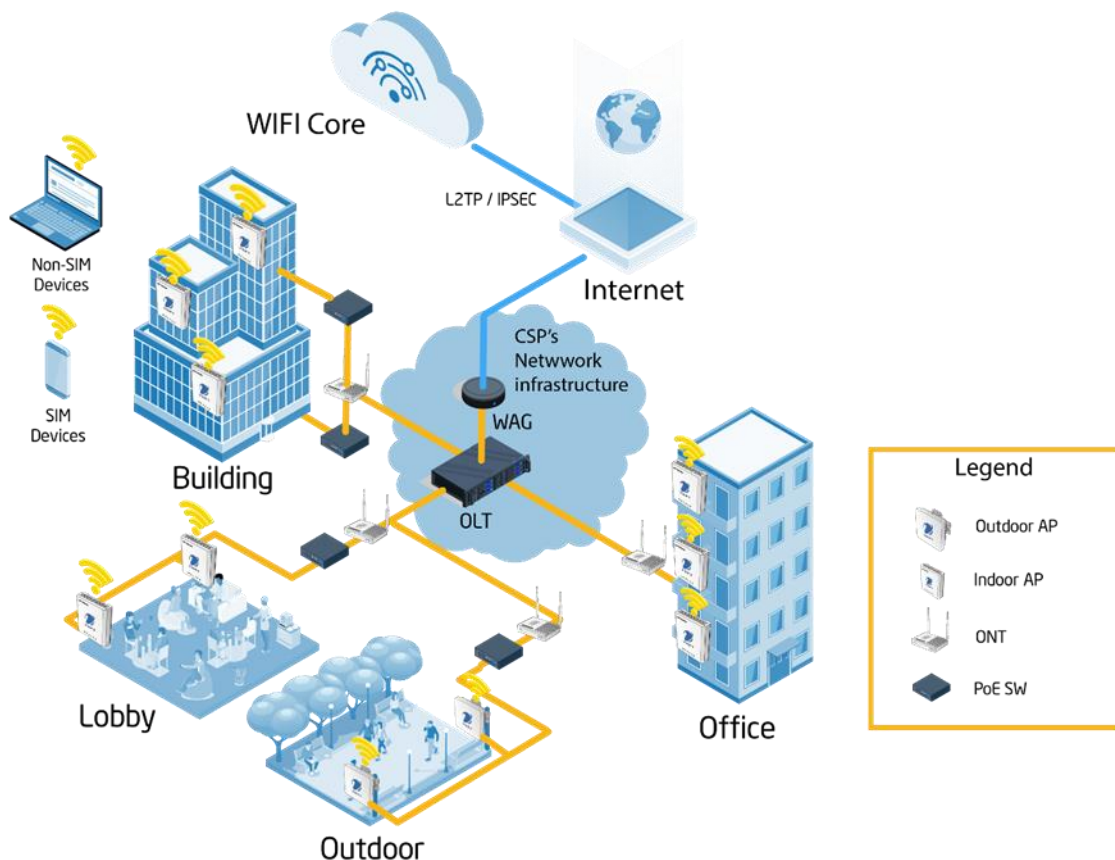


**Security**  
Captive Portal  
802.1x  
WPA/WPA2

## TYPICAL DEPLOYMENT MODELS

### Deploy LBO (Local Break Out) traffic at Wi-Fi Gateway

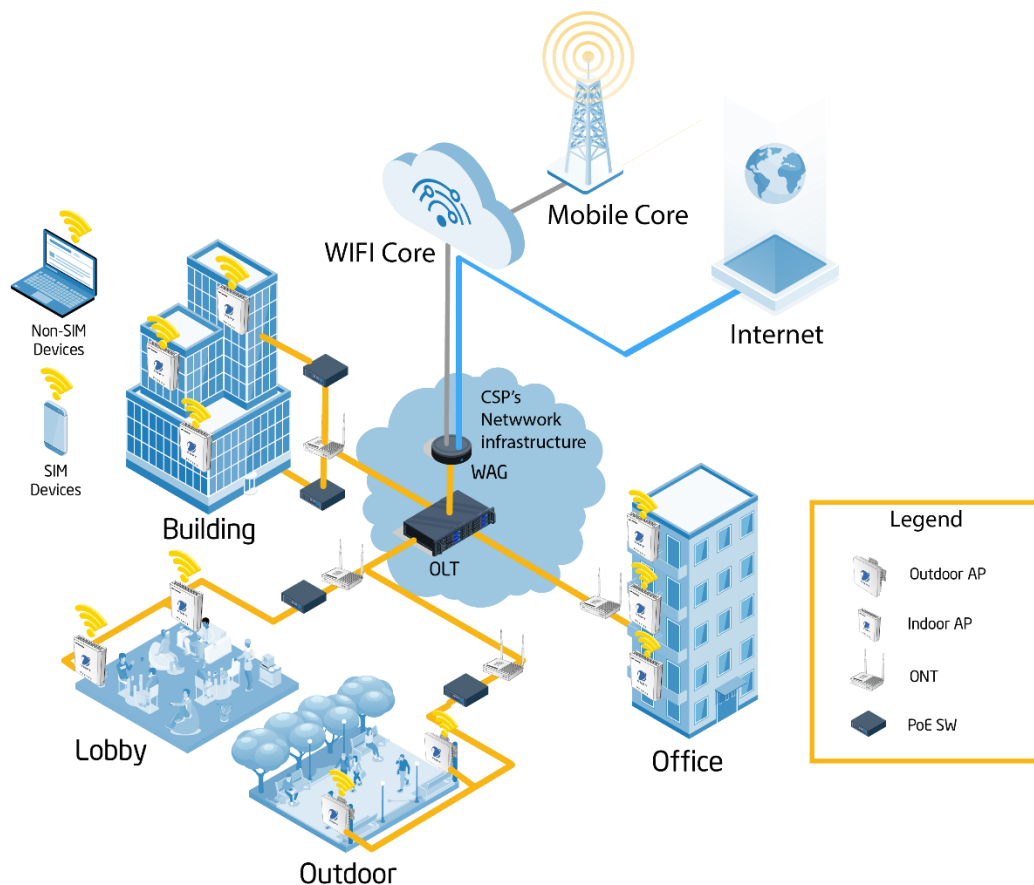
An **iGate AP11H Series** connects to a Gateway (ONT, Router) via Ethernet. User traffic from APs is concentrated to a Wi-Fi Gateway (WAG) and is LBO direct to the internet. OAM traffic from AP is routed through the internet to Wi-Fi Core.



### Deploy Offload traffic to the mobile core network

An **iGate AP11H Series** connects to a Gateway (ONT, Router) via Ethernet. All traffic from APs is concentrated to a Wi-Fi Gateway (WAG). At WAG, the OAM (Operations, Administration and Management) traffic is routed to the Wi-Fi Core, while User Traffic

is LBO direct to the internet. Wi-Fi Core will communication to the mobile network's core network to provide authentication & authorization for internet service and VAS (Value Added Service).



## FEATURES

### Wireless Features

- Operating Mode: AP, Repeater
- Active Dual Band: 2.4 GHz & 5 GHz
- Band Steering (AP 1101IH model)
- Limited Concurrent Client (CCU)

### Multi-WAN Features

- Wireless WAN connectivity (Repeater)
- Ethernet WAN Connectivity
- 3G/4G/LTE WAN Connectivity (USB)

## Management Features

- Local Management with WebGUI/CLI/Telnet
- Remote Management with VNPT Technology 's ONE Controller
- Device Information, Connection Statistic, Client monitoring
- Diagnostics Tool: Ping, Trace, Log
- Upgrade Fw: Local, Remote
- Backup, Restore Configuration

## Security

- WPA-PSK, WPA2-PSK, WPA-EAP & WPA2-EAP
- 802.1x Authentication (EAP-SIM/TLS/TTLS/SIM/AKA/AKA'), Captive Portal, Mac based
- WEP, TKIP & AES Encryption
- MAC Filtering
- SSID Hidden
- SPI Firewall
- Access Control by SSID

## Network

- Forward & Routing Traffic: Bridging/ routing/ Static routing
- DHCPv4/DHCPv6 (Server, Client)
- PPPoE Client
- VPN Passthrough
- VLAN/IPSEC/PPTP/L2TP
- IPv4/IPv6 Dual Stack, IPv6 only
- NAT & Port Forwarding
- DNS/DDNS
- HTTP Redirect (Captive Portal Authentication)

## Protocols

- Management: HTTP, CAPWAP
- Authentication: RADIUS, EAP

## TECHNICAL SPECIFICATIONS

### Interfaces

- WAN 1x 10/100/1000 Base - T (RJ45), PoE support
- LAN 4x 10/100/1000 Base - T (RJ45)
- USB 1 x USB 2.0

### Power

- Types DC 12V-1A  
PoE 802.3at/af,  
48V-1A
- Power Consumption 10W (MAX, AP0201IH/  
AP0101IH model)

### Wi-Fi

- IEEE Standards 802.11 a/b/g/n/ac wave 1  
802.11i security &  
802.11v
- PHY Rate 2.4GHz:  
450 Mbps (AP1101IH/  
AP0101IH model)  
900Mbps (AP0201IH  
model)  
5GHz: 1300Mbps  
(AP1101IH model)
- Channel 2.4GHz: 20/40 MHz

Bandwidth 5GHz: 20/40/80 MHz

- Frequency 2.4 - 2.4835 GHz  
5.170 - 5.835 GHz
- Radios Single Band (AP0101IH/  
AP0201IH model)  
Dual Band (AP1101IH  
model)
- Antenna 2.4GHz: MIMO 3x3  
5GHz: MIMO 3x3  
Internal Omni 5dBi (2.4 &  
5GHz)  
Optional:  
External Omni 10dBi  
(5GHz)  
Internal Sector 8dBi  
(2.4GHz)
- EIRP 23dBm  
(AP0101IH/AP0201IH  
model)  
25dBm (AP1101IH model)
- SSID 8 SSIDs (AP0101IH model)  
16 SSIDs (AP1101IH/  
AP0201IH model)
- CCU 100 User/Radio


## LED and Buttons


- Buttons
  - 1x Wi-Fi
  - 1x Reset
- LED
  - 1x Power LED
  - 5x Ethernet LED
  - 2x Wi-Fi LED
  - 1x USB LED
  - 1x WPS LED
  - 01 WPS LED

## Others

- Dimension 182x180x42mm
- Weight
- Operating 0°C ÷ 50°C temperature
- Operating ≤ 95% humidity
- Mounting Wall

## CUSTOMER CARE & TECHNICAL SUPPORT CENTRE

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