



iGATE AP2IH SERIES

802.11AC WAVE 2 INDOOR ACCESS POINT

The entry-level **iGate AP2IH Series** access point deliver high performance and superb user experience for medium density indoor environments. The **iGate AP2IH 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 802.11 ac Wave 2 with 4x4 MU-MIMO, Beamforming and Band Steering, the **iGate AP2IH Series** enable an all wireless digital work environment in a cost-effective manner. MU-MIMO enables access points to split up to three spatial streams between client devices to maximize throughput.

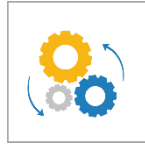
With a maximum concurrent data rate of 1700Mbps in the 5GHz band and 400Mbps in the 2.4GHz band (for an aggregate peak data rate of 2.1Gbps), the **iGate AP2IH Series** bring an always-on wireless network experience with the performance required for Enterprise and Communications Service Provider (CSP). It is 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



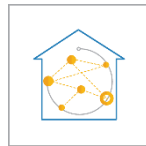
Flexible Configuration
Plug and Play
Remote configuration
Automatic FW Upgrade



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



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



MIMO Antenna
4x4 MIMO
3 Spatial
Streams
Beamforming



Wi-Fi Offload
GRE Tunnel
Hotspot 2.0



High Performance
2.1 Gbps BW

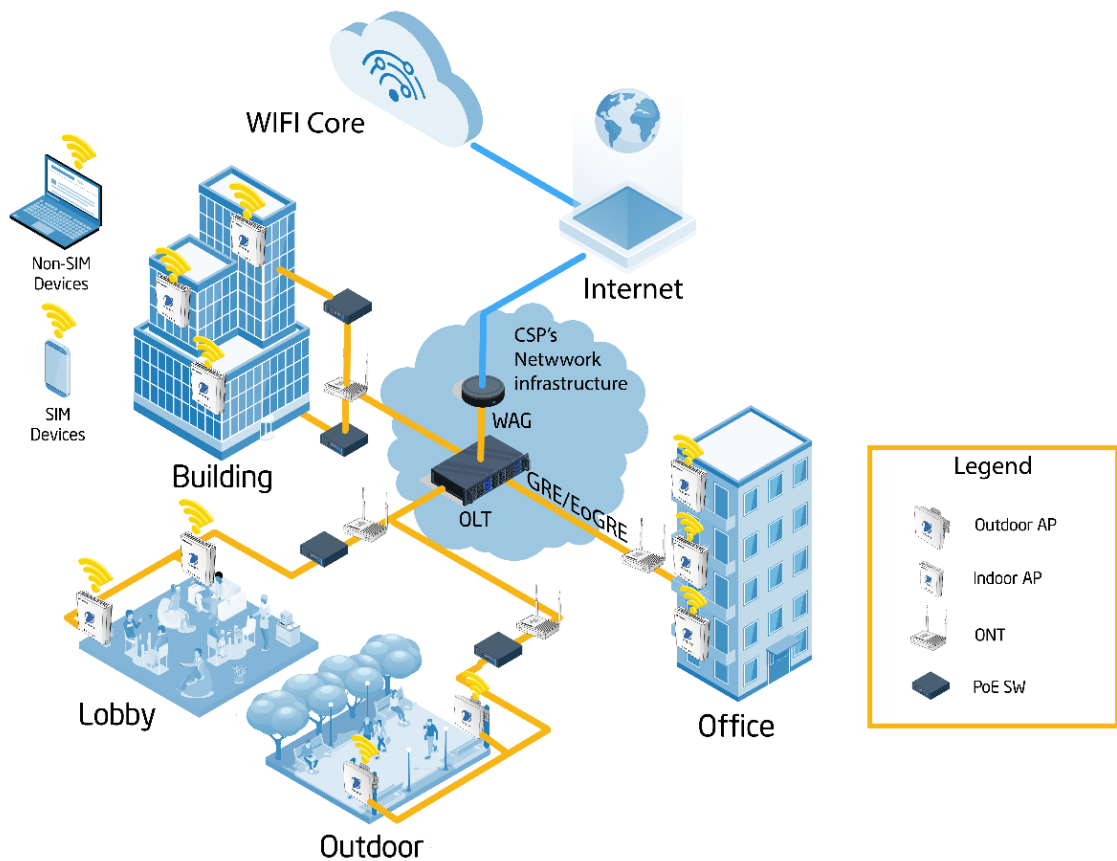


Security
Captive Portal
802.1x
WPA/WPA2

TYPICAL DEPLOYMENT MODELS

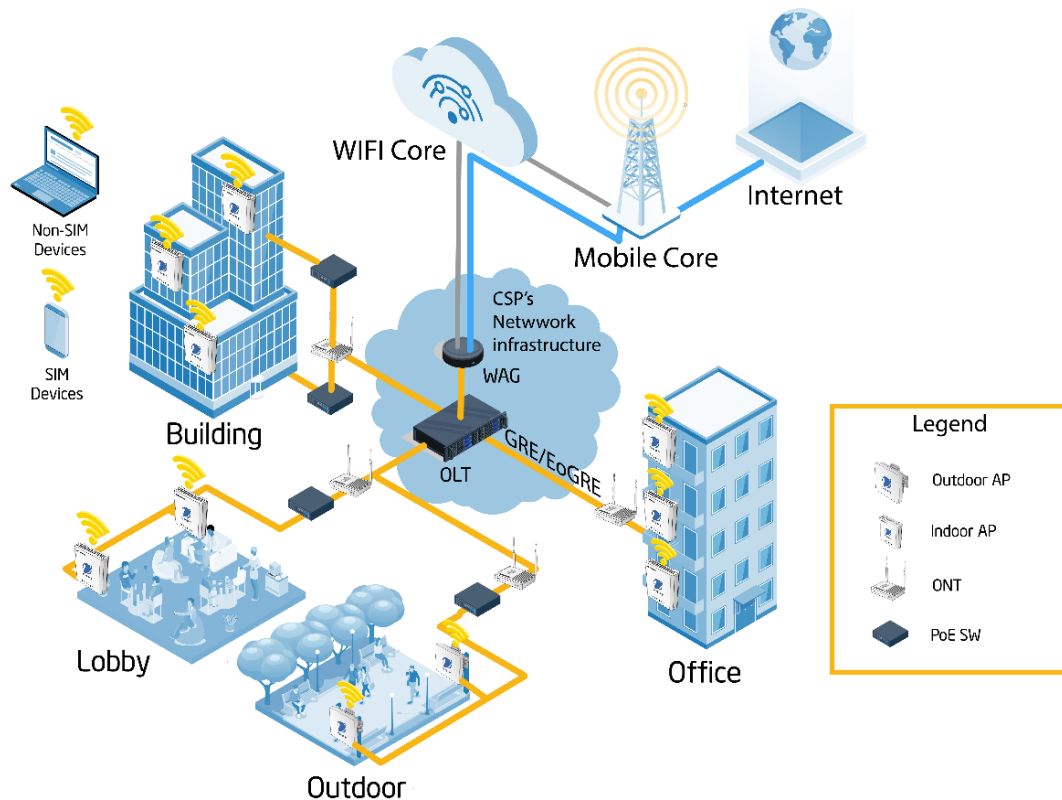
Deploy LBO (Local Break Out) traffic at Wi-Fi Gateway

An iGate AP2IH 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 AP2IH 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
- Limited Concurrent Client (CCU)
- Band Steering
- Mesh Wi-Fi (roadmap)
- Auto Discovery & Configuration
- Adaptive Path Selection
- Load Balancing
- Seamless Roaming
- Auto Channel Selection

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, Wispr
- 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

Interface

- WAN 1x 10/100/1000 Base - T (RJ45), PoE support
- LAN 1x 10/100/1000 Base - T (RJ45)
- Console 1xUSB type B
- USB 1 x USB 3.0

Power

- Types DC 12V-2A
PoE 802.3at/af,
48V-1A
- Power 15W (MAX)
Consumption

Wi-Fi

- IEEE 802.11 a/b/g/n/ac wave 1
Standards 802.11v


- PHY Rate 4GHz: 400Mbps
5GHz: 867/1734Mbps
(AP2IH 1200AC/2100AC)
- Radios Dual Band Radio
- Antenna Internal sector antenna
2.4GHz: MIMO 2x2, 6dBi
5GHz: MIMO 2x2/4x4,
8dBi
(AP2IH 1200AC/2100AC)
MU-MIMO, Beamforming
- EIRP 23dBm (2.4GHz)
27dBm (5GHz)
- SSID 16 SSIDs (8 SSIDs/radio)
- CCU 100 Users/Radio

Others

- Dimension 200x185x51mm

- Weight
- Operating temperature $0^{\circ}\text{C} \div 50^{\circ}\text{C}$
- Operating humidity $\leq 95\%$
- Mounting Wall

CUSTOMER CARE & TECHNICAL SUPPORT CENTRE

 **Address:** 1st floor, VNPT Technology Building, No. 124, Hoang Quoc Viet Str., Cau Giay Dist., Hanoi, Vietnam

 **Telephone:** +84.24.3750.6666 (24/7)

 **Email:** support@vnpt-technology.vn