



iGATE AP20H SERIES

802.11 AC WAVE 2 OUTDOOR ACCESS POINT

The **iGate AP20H Series** access point deliver high performance and superb user experience for medium density outdoor environments. The **iGate AP20H Series** are part of the VNPT Technology's Total Wi-Fi Solution of 802.11 ac-enabled access points, delivering a robust mobility experience. In addition, the devices can be used to integrate in other Wi-Fi solutions that comply with standards protocols (eg. RADIUS, CAPWAP, EAP, etc.)

Featuring 802.11 ac Wave 2 with 4x4 MU-MIMO, Beamforming and Band Steering, the **iGate AP20H 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's devices to maximize throughput.

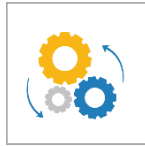
With a maximum concurrent data rate of 1700 Mbps in the 5GHz band and 800 Mbps in the 2.4 GHz band (for an aggregate peak data rate of 2.5 Gbps), the **iGate AP20H Series** bring an always-on wireless network experience with the performance required for Enterprise and Communications Service Provider (CSP). It is deal for cost sensitive medium density indoor environments across verticals.



PRODUCT HIGHLIGHTS



High reliability
Dual Power Supply
IP-67 Water Proof
Lightning Protection



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



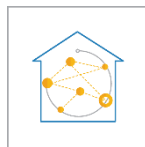
Flexible Configuration
Plug and Play
Remote configuration
Automatic FW Upgrade



Multi-WAN
Ethernet
Repeater



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



MIMO Antenna
4x4 MU-MIMO
3 Spatial
streams
Beamforming



Wi-Fi Offload
GRE Tunnel
Hotspot 2.0



High Performance
2.5 Gbps BW
(Dual Band)

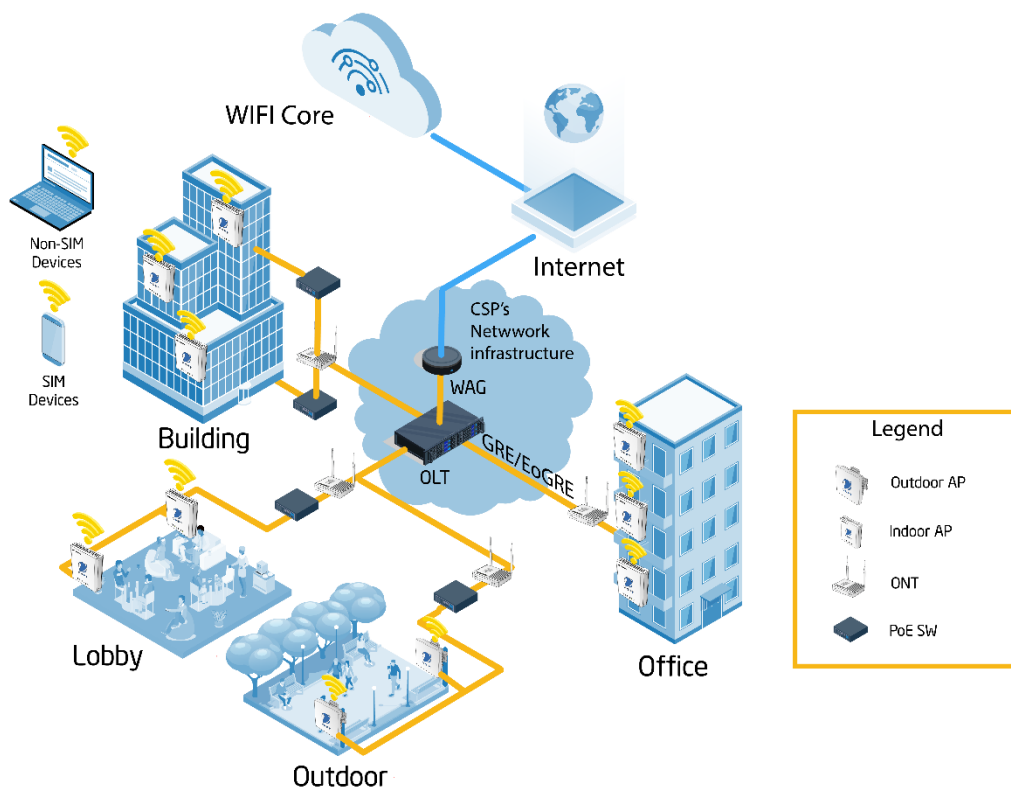


Security
Captive Portal
802.1x
WPA/WPA2

TYPICAL DEPLOYMENT MODELS

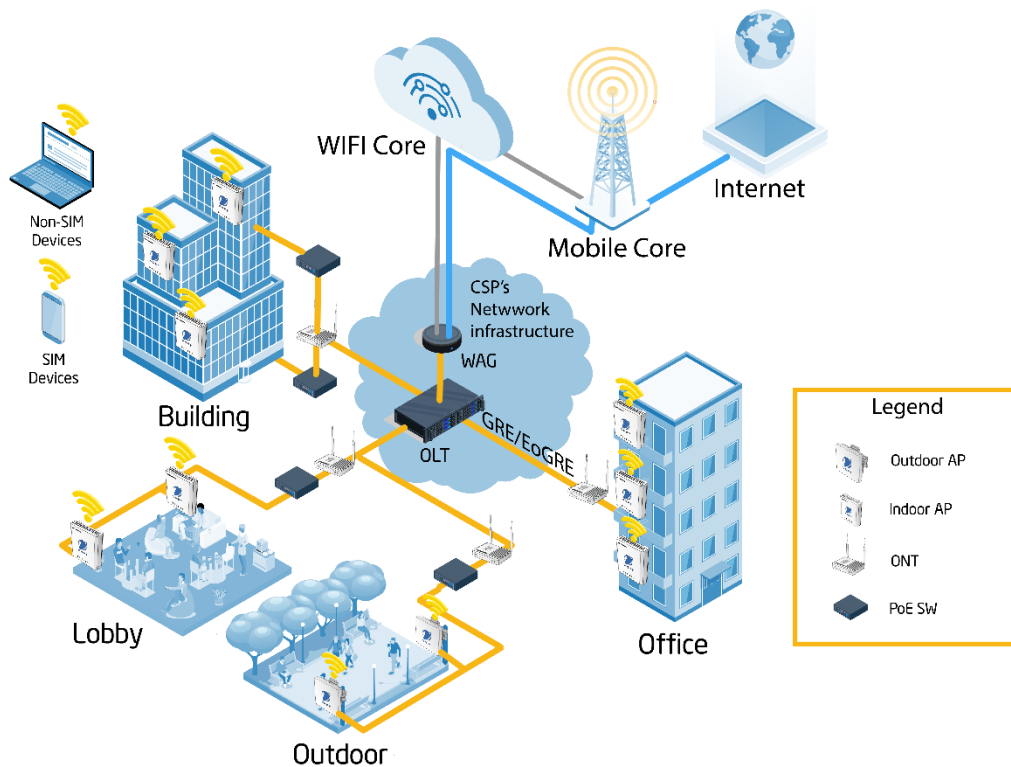
Deploy LBO (Local Break Out) traffic at Wi-Fi Gateway

iGate AP20H access Point connects to a Gateway (ONT, Router) via Ethernet. User traffic from APs is concentrated to a Wi-Fi Gateway (WAG) and is LBO 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 AP20H 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 will be routed to the mobile network's core network to provide internet service and VAS (Value Added Service).



FEATURES

Wireless Features

- Operating Mode: AP, Repeater, Mesh (MRE-CAP)
- Active Dual Band: 2.4 GHz & 5 GHz
- Band Steering
- Limited Concurrent Client (CCU)
- Mesh Wi-Fi (roadmap)
 - Auto Discovery & Configuration
 - Adaptive Path Selection
 - Load Balancing

- Seamless Roaming

Multi-WAN Features

- Wireless WAN connectivity (Repeater)
- Ethernet WAN connectivity

Management Features

- Local Management with WebGUI/CLI/Telnet
- Remote Management with VNPT Technology 's ONE Controller

- Device Information, Connection Statistic, Station 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, PoE support
- LAN 1x 10/100/1000 Base -T




- Console 1x USB 3.0
- Ext. Antenna 4x N-Type connectors

Power

- Types PoE 802.3at/af,

	48V-1A		4x4, 7dBi (AP20H
• Power	15W (MAX)		2100AC/2500AC)
Consumption			5GHz: MIMO 4x4, 8dBi
			MU-MIMO, Beamforming
Wi-Fi			30dBm (MIMO)
• IEEE	802.11a/b/g/n/ac wave 2	• EIRP	16 SSIDs (8 SSIDs/radio)
Standards	802.11v	• SSID	200 User/Radio
• PHY Rate	2.4GHz: 400/800Mbps	• CCU	
	(AP20H 2100AC/2500AC)	Other	
	5GHz: 1734Mbps	• Dimension	290x290x83mm
• Channel	2.4GHz: 20/40 MHz	• Operating	0°C to + 50°C
Bandwidth	5GHz: 20/40/80 MHz	temperature	
• Frequency	2.4GHz ÷ 2.4835 GHz	• Mounting	Wall/Pole
	5.170GHz ÷ 5.835 GHz	• Water Proof	IP-67
• Radios	Dual Radio	• Lightning	3KV
• Antenna	Internal Omni	Protection	
	2.4GHz: MIMO 2x2, 5dBi /		

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