G-AP-OX850

Outdoor 802.11a/b/g/n/ac/ax WiFi AP with PoE+ 3550 Mbps Dual Band 4X4 MU-MIMO





Its rain-proof and dust-proof robust housing makes it ideal for outdoor scenarios with a very high density of users and traffic such as hotels, schools, hospitals, stations, ...



Antenna	External omni, 6dBi gain (interchangeable antennas, N connectors)		
Interfaces (see image)	A. 10/100/1000/2500 Mbps RJ45 LAN port with PoE IEEE 802.3at B. Reset button.		
Feeding source	DC: 12V 3A Jack connector (not included) PoE: 48V IEEE 802.3af/at		
Average power consumption	48V PoE ≈ 35 W (DC: 12V 3A Supports IEEE 802.3az		
Size			
SIZE	330 x 240 x 90 mm		
Weight	330 x 240 x 90 mm 2200 g.		
0.20			
Weight	2200 g. Operation: -20°C - 55°C (-4°F - 131°F) Storage: -20°C -70°C		
Weight Temperature	2200 g. Operation: -20°C - 55°C (-4°F - 131°F) Storage: -20°C -70°C (-4°F - 158°F) Operation: 5% - 95% (non-condensing) Storage: 5% - 95%		



Distributed intelligence, no need for a central controller.



Single management platform for all network elements.



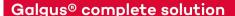
High network scalability. Not limited by size or AP number.



Automatic network optimisation.



Precise and robust Location Analytics using only WiFi.











Galgus' proprietary technology, CHT® (Cognitive Hotspot Technology), provides WIFI networks with a distributed intelligence with no need for a central controller. This avoids bottlenecks and single points of failure, improves performance, save costs, and enables advanced functionalities.

ViFi Features		Performance and capacity	
Standards	IEEE 802.11a/b/g/n/ac/ax 2.4 GHz (802.11 b/g/n/ax): 2.4 GHz ~ 2.484 GHz.	PHY rates	Peak: 3550 Mbps 2.4 GHz: 1150 Mbps 5GHZ: 2400 Mbps
Frequency bands	5 GHz (802.1a/n/ac/ax): 5.150 GHz ~ 5.850 GHz	Multi SSID Clients/AP	Up to 24 (12 at 2.4 GHz and 1) Up to 512
МІМО	4x4 MU-MIMO (2.4 GHz) 4x4 MU-MIMO (5 GHz)	Networking	op 10 0 12
Spatial streams	4 per band	IP	IPv4 & IPv6 DHCP Client/server
Chanel width	20, 40, 80, 160 MHz		Static IP Dynamic IP
Modulation	DL/UL-OFDMA = BPSK,QPSK, 16-QAM, 64-QAM, 128QAM, 256QAM y 1024QAM, y DSSS = DBPSK, DQPSK, CCK	Network	IEEE 802.1s IEEE 802.1d VLAN tagging (802.1Q) Supports LACP, LLDP
IEEE 802.11h (DFS) Tx Beamforming LDPC, STBC		VLAN	Dynamic VLANs Port forwarding Segmentation based on VLAN Tag VLAN based on SSID
WiFi features	IEEE 802.11r/k/v Power save WISPr IP/URL/MAC filtering	Mesh	802.11s. Up to 2 mesh extenders Dynamic re-routing Robust reaction to DFS events

Security	Netwo
WPA/WPA2/WPA3 personal & Enterprise	- Distr
RADIUS support with dynamic VLANs	centra
Captive portal with social login	- Sma
IEEE 000 4V	

- IEEE 802.1X - Supports ACL
- LDAP integration
- Isolated SSIDs
- URL filtering
- Firewall
- SSL / TLS / SSH
- Secured communication between APs
- WIDS & WIPS
- Location and tracking of hackers (Rogue AP or Evil twin)
- Protects against DDoS attacks

ork optimisation

- ributed intelligence with no need for a al controller
- art Roaming 802.11r (seamless handoff)
- Automatic channel and bandwidth assignment
- Proactive load balancing (real time resource allocation)
- Pre-balancing
- Traffic control
- Automatic power control
- Smart multicast
- Airtime fairness
- Smart and robust Mesh
- Dynamic probe management for very high density scenarios

Certifications and regulatory compliance				
WiFi Alliance	Connectivity	2.4 GHz & 5 GHz Spectrum capabilities WiFi certified 802.11a/b/g/n/ac/ax		
	Access	Passpoint® R2 (Hotspot 2.0)		
	Optimization	WMM®		
	Security	WPA/WPA2/WPA3 personal & enterprise Protected Management Frames		
Standards	CE Mark (EN 60 RED directive 2 FCC	0950-1; EN 62479; EN300328; EN 300440; EN 301489) 014/53/EU		
Fnvironmental	ROHS			

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CONFIGURATION, MANAGEMENT AND LICENSES

Galgus' WiFi networks can range form a single access point to thousands of them. Many of the advantages provided by the embedded technology CHT® are only relevant for networks with more than one AP, as the distributed intelligence an the communication between the APs are enabled. This allows them to take collective decisions that optimise the performance of the entire network.



Each access point can be configured locally though the console port; however, when there are several network elements and we want to configure more advanced functionalities, Galgus' management tool is required. Additionally, this management tool can be used to configure other GALGUS network elements, such as switches, Network Enhancers, etc; resulting in a simplified and easy to use unified management tool.

Galgus' network manager requires an annual license and offers all the advantages of a Cloud solution (scalability, continuous updates, pay as you grow, reduced operation costs, improved security, immediate availability, increased service availability...).

This tool allows one to supervise, control, update, troubleshoot and get alerts from the network, in addition to providing all kinds of advanced analytics:

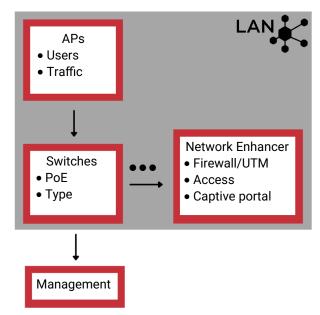
Features		No manager	Cloud manager
	Local web interface	✓	✓
	Type of license	Lifetime	Annual license
	Software maintenance	Optional (CHT)	Included
Ž	Type of Software maintenance	Manual optional	Automatic
Jnc	Modular licenses	✓	✓
J9¢	Zero-Touch Provisioning (ZTP)		✓
Įž	Unified management platform		✓
Management	Platform updates		✓
	Customisable alerts		✓
	CLI with remote access (SSH)		✓
	Open API (REST)		✓
7	Real time location of associated devices		✓
let	Location-enabled real time network KPIs		✓
₹	Coverage estimation		✓
Network analytics	WLAN design		✓
	Client distribution		✓
	Client details		✓
tic	Historic record and visualization of network KPIs.		✓
ά	Historic data exportation of network KPIs.		✓

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REGULAR GALGUS NETWORK



Depending on the Network's needs in terms of size and use, a complete Galgus solution incorporates different elements:

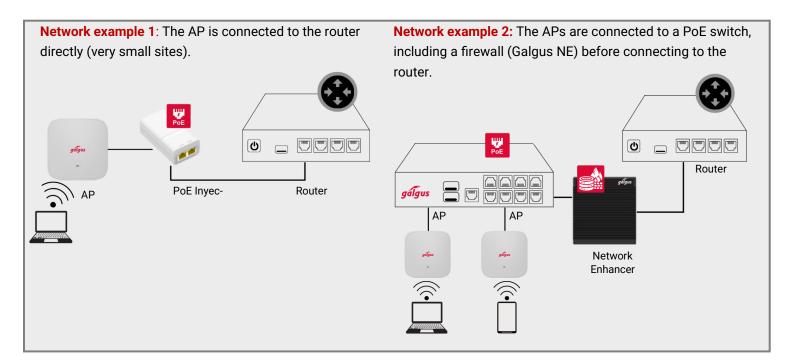
Access Points (APs): The choice of one or another depends on the expected density of users and traffic. All Galgus APs incorporate CHT®, our distributed intelligence software, which <u>eliminates the need for a central controller.</u>

Network switches: Manageable or not, with or without PoE. Can be chosen from a wide range to adjust to the needs of the network.

Network Enhancer (NE): Used to provide advanced associated services and to offload the AP from certain network functionalities such as Firewall, access control, etc, all managed via web interface.

All these elements can be managed through Galgus' management tools.

ALL Galgus' access points and networks can incorporate Galgus' business intelligence tool: **GALGUS LOCATION ANALYTICS**.



OPTIONAL SUPPORT SERVICES FOR GALGUS NETWORKS:

3D simulation and network design: Always recommended as the best way to guarantee the most accurate solution from a technical point of view, ensuring the highest performance and client satisfaction while reducing investment costs.

Remote configuration: Galgus remotely configures and ensures the correct performance of the network.

Remote network management: GALGUS, as manufacturer and technology owner, offers a network management service, to ensure it is always available and offering the highest performance and quality of service.

L2 technical support: GALGUS will always provide technical help regarding the acquired products and services.

Warranty extension: Possibility to extend the warranty of most GALGUS devices up to 5 years.

Turnkey projects.