

Indoor PoE 3657 Mbps Dual Band 200mW 4x4 + 4x4 Mu-MIMO. 802.11b/g/n/ac/ax





Galgus IX850 delivers the most advanced wireless communications features up to **200mW** high power indoor **802.11ax** environments.

Thanks to its robust ABS cage and its max gain 3dBi WIFI antenna, makes this product to be the ideal one for indoor environment. It is an excellent choice for indoor very high density heavy-duty multi-scenarios, such as very large schools, hospitals, coffee shops, hotels, offices and enterprises, indoor events, stadiums, concerts, large meeting/conference halls, Clubs, Shopping malls, Bus/train stations, airports,... to cover typical usage of UHD movies, streaming, online gaming,... with wireless security, device location, positioning and other heavy bandwidth-intensive tasks.

This AP is prepared, thanks to its M2 socket, to be equipped with an optional 4G or 5G modules. It can be ordered without or with any of those modules for the specific region

Main features

Antenna 3dBi gain omnidirectional antennas. Up to 23dBm (200m power. 2,4/5 GHz: 4x4 + 4x4 Mu-MIMO					
	1x2.5Gbps Mbps RJ45 WAN Port + 1x2.5Gbps RJ45 LAN Port WAN port supports IEEE 802.3at standard PoE Reset button				
Interfaces	USB3.0.				
interfaces	LED: Sys/WAN/LAN				
	Reset botton				
RF Standard	Wifi 802.11 b, g, n, ac, ax				
PHY Capacity	2.4 GHz: 1182 Mbps 5 GHz: 2475 Mbps				
FIT Capacity	Profile based packet priorities and planning. Bandwidth				
	restriction for each SSID. VMM parameters modification				
QoS capabilities	Calling QoS classification and prioritization for wireless and				
	wired interfaces Traffic congestion management: limitation of per user bandwidth				
Power	The same and a same and a same and a same and a same a same and a same a				
Supply	IEEE 802.3at PoE+. 12Vdc / 2A power input				
Typical	' '				
Consumption	<24W				
Humidity	Operating: 5% to 95% (non-condensing)				
Operating	, , , , , , , , , , , , , , , , , , , ,				
Temperature	-20°C (-4°F) to 55°C (131°F)				
Dimensions	198 x 198 x 41.02 mm 750 gr				
Weight					
	WIDS & WIPS CHT, ACL support, IEEE 802.11w				
	RFC 6101 Secure Layer Socket, RFC 5246 Transport Layer				
	Security, RFC 4253 Secure Shell				
	Advanced Firewall with SYN-Flood protection				
	MSS clamping, NAT, Port forwarding, Traffic Rules				
Security	Support 64/128-bit WEP, 128bit WPA (TKIP/AES), WPA & WPA2				
	Personal and Enterprise with IEEE 802.1x and VLAN tagging,				
	WPA3 PSK, Local authorization via RADIUS Server, IPsec and				
	L2TP passthrough, Key Management, PSK/TKIP Encryption, AES				
	Encryption, Denial of Service Attack Protection, MAC Filtering				
	(Dynamic Blacklist), Isolate wireless clients, Hide SSID				

WIFI features	IEEE 802.11h (DFS), WMM, Power Save, Tx Beamforming, LDPC, STBC, IEEE 802.11r/k/v, IEEE 802.11u Hotspot and Hotspot 2.0. LLDP,ACL and aptive Portal supports, Online signup and policy provisioning, Tag VLAN based on SSID WISPr, Multiple SSIDs, Data aggregation, Packet priorities and planning, Statistics reporting, W updates and configuration through DHCP auto-provisioning DL/U OFDMA, BPSK,QPS, 16-QAM, 64-QAM, 128-QAM, 256-
	QAM and 1024QAM and DSSS = DBPSK, DQPSK, CCK modulations SSID broadcasting, Multi SSID up to 55 (18 SSID in 2.4GHz, 37 SSID in 5GHz). >200 users
Management & Diagnostics	Galgus Cloud Manager, Web GUI, RFC 1157 & 2271 – SNMP, RFC 3414 – SNMP v3 HTTP/HTTPS Web Server, Zero Touch Provisioning, Telnet SSH, Network Controller Enhancer. Ping, Traceroute and Ns lookup tools. Syslog and Local Log support, Save and restore settings via Web Interface. Wireless RF status and throughput, TCP/UDP Connections statistics and details. Traffic metrics per interface, Load . Can manage the AP through VLAN ID, Map VLAN IDs to multiple SSID, IEEE 802.1q, Dynamic VLAN with 802.1x, Up to 16 VLAN
IP & Network	IPvd, IPvG, IEEE 802.14 & 802.15 – STP, IEEE 802.14 – VLANS, RFC 2131 & RFC 2132 – DHCP Client/Server, RFC 1661 PPP, RFC 2516 PPPoE, RFC 2637 PPPtP, RFC 2661 LZTP, Static Leases, Domain whitelist, Firewall, IP filter, URL filter and MAC filter, can work as: Gateway (PPDF)C, static IP, dynamic IP), Wirreless AP, Repeater, WISP, WDS, Ad-Hoc and Pseudo Ad-Hoc, Mesh 802.113, Monitor, Bridge. DDNS, VPN pass through, Port forwarding and DMZ host. UDP, TCP, DNS, NTP, STP,
IPv6	RFC 6333 Dual Stack, RFC 4213 IPv6-in-IPv6, RFC 4291/3315: Dynamic Host. DHCPv6
Case & Mounting	ABS cage. PCB board support Common mode ± 6 KV Different mode and ± 2 KV lightning protection

Comentado [FF1]: Lo he puesto abajo en IP Network



RF Performance Table

2.4G RF Power	002.11 HE40	14000	22 . 2 ID	
2.4d Ki i owei	802.11n HT40	MCS0	CSO 23±2dBm	
	802.11n HT40	MCS7	22±2dBm	
	802.11ac HT40	MCS9	21±2dBm	
	802.11ax HT40	MCS11	18±2dBm	
5.8G RF Power	802.11n HT40	MCS0	23±2dBm	
	802.11n HT40	MCS7	22±2dBm	
	802.11ac HT80	MCS9	21±2dBm	
	802.11ac HT80	MCS11	18±2dBm	
2.4G EVM	802.11n HT40	MCS0	-86dBm	
	802.11n HT40	MCS7	-68dBm	
	802.11ac HT40	MCS9	-55dBm	
	802.11ax HT40	MCS11	-35dBm	
5.8G EVM	802.11n HT40	MCS0	-86dBm	
	802.11n HT40	MCS7	-68dBm	
	802.11ac HT80	MCS9	-55dBm	
	802.11ac HT80	MCS11	-35dBm	

COMMON FEATURES CHT

patented and embedded Cognitive Hotspot Technology (CHT) ensures users of your WiFi network will enjoy supreme performance even in the most adverse conditions. Thanks to its automatic resource optimization and control based on artificial intelligence, Galgus' APs appropriately suit many different scenarios. In addition, the site administrator will find it easier to operate the network, with a powerful and intuitive optional cloud management system: You can handle your network from a single location and extract more valuable information from your infrastructure.

A network with Galgus' APs:

- Avoids typical problems from those solutions with centralized controllers or cloud controllers such as lack of adaptability and robustness, single points of potential failure, delays in decision making, bottlenecks, traffic efficiency drop...
 - -Drastically reduces operating costs and increase performance, as CHT is responsible for optimizing the

- network in real-time automatically without human intervention: allocation of radio resources, channels, bandwidth, load balancing and prebalancing, airtime fairness, smart and predictive roaming, traffic congestion management, automatic power control, multicast, multicast to unicast conversion, device location and tracking, etc.
- Adds an enormous value to the existing infrastructure (location and tracking of connected users even if they falsify their MAC address, detecting, mitigating and even locating hacker attacks, generating heat maps in real-time, as well as discovering and exploiting the amendments that support the devices), allowing the owner of the network to use the data obtained without violating the user' privacy.
- Simplifies administrators' life, thanks to its Zero-Touch Provisioning philosophy for immediate deployment and advanced enterprise-grade management features (cloud management, REST API, captive portal and integration with social login, dynamic VLANs, WPA enterprise with Radius support, and modular licenses with auto-download system).



		Features	Standard	Premium	WIFI4EU
1		Cloud Manager	Y	Υ	Υ
2	E	REST API	Y	Y	Y
3	A S	Integration with third party dashboards	Y	Y	Y
4	Y	Mesh with dynamic re-routing	Y	Y	Y
5	М	Mesh advanced configuration from the Cloud	Y	Y	Y
6	A	Events and alerts (including DFS and high density)	Y	Y	Y
7	N	Self configuration	Y	Y	Y
8	A G	Remite SSH access to the APs	Y	Y	Y
9	E		Y	Y	Y
10	M E	Zero Touch provisioning (ZTP)	Y	Y	Y
-	N	Local web interface (Advanced configuration)			
11	T	Intuitive CLI	Y	Y	Y
12		Modular licenses and auto-download	Y	Y	Υ
13		No central controller (No bottlenecks/Point of failure)	Y	Υ	Υ
14		Distributed intelligence without central controller	Y	Υ	Υ
15	0	Smart Roaming (Seamless handoff)	Y	Υ	Υ
16	P T	Automatic Channel assignment	Y	Υ	Υ
17	N I	Proactive Load Balancing (real-time resource allocation)	Y	Υ	Y
18	T M	Prebalancing (Association control)	Y	Υ	Υ
19	w z	Traffic control (Bandwidth limits for users)	Y	Υ	Υ
20	O A	Automatic Power Control (interference mitigation)	Υ	Υ	Υ
21	K T	Smart Multicast (Multicast to unicast conversion)	Υ	Υ	Υ
22	0	Airtime Fairness	Υ	Υ	Υ
23	N	Dynamic probe management for ultra high density	Y	Υ	Υ
24		Smart and robust reaction to DFS Events	Υ	Υ	Υ
25		Predictive roaming	Υ	Υ	Υ
26		Location of associated and unassociated devices	N	Υ	N
27		Heatmap of associated and unassociated devices	N	Υ	N
28		Location of devices (preventing random MAC issues)	N	Υ	N
29		Heatmap of devices (preventing random MAC issues)	N	Υ	N
30	M A	Counting of associated and unassociated devices	N	Y	N
31	N	Counting of devices (preventing random MAC issues)	N	Y	N
32	A G	Real Time disnal strength heatmap	Y	Y	N
33	E	Real Time modulation and coding (MCS) heatmap	Y	Y	N
34	M E	Real-time device capabilities heatmap	Y	Y	N
35	N	Coverage estimation (In both nands)	Y	Y	Y
36	T	Spectral analysis (In both bands)	Y	Y	Y
37		Device fingerprinting against random MACs	N	Y	N
37		Historic record and visualization of data	N	Y	Y
38		Cloud Location Analytics	N	Y	N
39			Y	Y	Y
40		Secured communication between Aps (Eliptic curve)	N	Y	N N
40		Wireless Intrusion Prevention Wireless Intrusion Detection		Y	
41	1	Wireless intrusion Detection Wireless intrusion Location	N N	Y	N N
-	N			Y	
43	- D	Location and tracking of the hacker	N		N
44	E	WPA/WPA2 personal and Enterprise	Y	Y	N
45	P T	WPA3 personal and Enterprise	Y	Y	N
46	н	Fast Roaming (802.11r)	Y	Y	Y
47		Client Isolation	Y	Υ	Υ
48	A N	Shields against DDoS attack	Y	Υ	N
49	Α	Internal captive portal	Y	Υ	N
50	L Y	External captive portal	Y	Υ	Υ
51	Т	Integration with social login	Y	Υ	Υ
52	I C	Firewall & Deep Packet Inspection (DPI)	Y	Υ	N
53	S	Dynamic VLANs (credentials-based split of network)	Y	Υ	N
54		Radius support	Y	Υ	N
		GDPR compliant	Υ	Υ	Υ
55		GDPK COMPHANE			