

Outdoor PoE 2183Mbps Dual Band 3x3 2.4GHz + 4x4 5GHz MU-MIMO Omnidirectional 802.11a/b/g/n/ac Wave 2

Galgus OC751 delivers the most advanced wireless communications features up to **500mW** high power outdoor 802.11ac wave 2 environment.

Thanks to its robust aluminium IP67 waterproof, dustproof and sunscreen shell cage and its max gain omnidirectional default 8dBi WIFI antennas, makes this product to be the ideal one for outdoor environments. It is an excellent choice for **outdoor high density heavy-duty multi-scenarios**, such as **schools, hospitals, large coffee shops, medium and large size hotels, offices, restaurants, enterprises, stations, airports, stadiums, concerts outdoor large events,.... to cover typical usage of HD movies, streaming, online gaming, wireless security, device location, positioning and other bandwidth-intensive tasks, up to around 1km WIFI range.**



	3x3 2,4 GHz + 4x4 5GHz: MU-MIMO omnidirectional 8dBi antennas. N		
Antenna	type female. IEEE 802.3az RF power adjustment and frequency analyzer		
	TX::500mW(27dBm). RX: -96dBm.		
Interfaces	10/100/1000 Mbps RJ45 WAN Port		
	WAN port supports IEEE 802.3at standard PoE		
	10/100/1000 Mbps RJ45 LAN Port		
	Reset button		
WiFi Standard	802.11 a, b, g, n, ac Wave 2		
PHY Capacity	2.4 GHz: 450 Mbps 5 GHz: 1733 Mbps		
Power Supply	DC 12V 1.5A Jack Input IEEE 802.3at PoE+ Optional		
	external power injector with power supply.		
Maximum	· · · · · · · · · · · · · · · ·		
Consumption	<24W		
Humidity	Operating: 5% to 95% (non-condensing)		
Operating	-10°C (-23°F) to 55°C (131°F)		
Temperature	-10 C (-23 F) (0 55 C (131 F)		
Dimensions	310 x 255 x 100 mm 1,8 Kg		
Weight	510 X 255 X 100 IIIII 1,8 Kg		
Case &	Aluminium cage. Pole mounted. IP67. Waterproof connectors.		
Mounting			
	WIDS & WIPS CHT, ACL support, IEEE 802.11w		
Security	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		
	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		
	IEEE 802.11h (DFS), WMM, Power Save, Tx Beamforming, LDPC, STBC, ,		
WIFI features	IEEE 802.11r/k/v, IEEE 802.11u Hotspot and Hotspot 2.0. LLDP,ACL and		
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	captive Portal supports, Online signup and policy provisioning, Tag VLAN based on SSID WISPr, Multiple SSIDs, Data aggregation, Packet priorities and planning, Statistics reporting, SW updates and configuration through DHCP auto- provisioning OFDM = BPSK, QPSK, 16-QAM, 64-QAM and DSSS = DBPSK, DQPSK, CCK modulations SSID broadcasting, Multi SSID up to 16 (4 SSID in 2.4GHz, 12 SSID in 5GHz) Built in watchdog chipset.
Management & Diagnostics	Galgus Cloud Manager, Web GUI, RFC 1157 & 2271 – SNMP, RFC 3414 – SNMP v3 HTTP/HTTP5 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	IPv4, IPv6, IEEE 802.1d & 802.1s– STP, IEEE 802.1q – VLANs, RFC 2131 & RFC 2132 – DHCP Client/Server, RFC 1661 PPP, RFC 2516 PPPoE, RFC 2637 PPPtP, RFC 2661 L2TP, Static Leases, Domain whitelist, Firewall, IP filter, URL filter and MAC filter, Can work as: Gateway (PPPOE, static IP, dynamic IP), Wireless AP, Repeater, WISP, WDS, Ad-Hoc and Pseudo Ad- Hoc, Mesh 802.11s, 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
QoS capabilities	Profile based packet priorities and planning. Bandwidth restriction for each SSID. VMM parameters modification Calling QoS classification and prioritization for wireless and wired interfaces Traffic congestion management: limitation of per user bandwidth



COMMON FEATURES CHT

Its 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
MANAGEMENT		-
Cloud Manager	~	~
REST API	\checkmark	~
ntegration with third party dashboards	\checkmark	\checkmark
Mesh with self-healing and dynamic re-routing	\checkmark	\checkmark
Self configuration	✓	~
Remite SSH access to the APs	~	~
Zero Touch Provisioning (ZTP)	\checkmark	 Image: A set of the set of the
Local web interface	\checkmark	~
ntuitive CLI	~	 Image: A set of the set of the
Modular licenses and auto-download	\checkmark	~
OPTIMIZATION		
No central controller (No bottlenecks/Point of failure)	~	~
Distributed intelligence without central controller	~	~
Smart Roaming (Seamless handoff)	~	~
Automatic Channel Assignment	1	1
_ocal blancing (Real-Time resource allocation)	1	1
Prebalancing (Association control)	1	1
Traffic control (Bandwidth limits for users and radios)	1	1
Automatic Power Control	1	1
Smart Multicast (Multicast to unicast conversion)	1	1
Airtime Fairness	~	
Dynamic probe management for ultra high density		~
Predictive Roaming ANALYTICS	V	•
	~	
Location and tracking of associated devices	×	~
Location and tracking of unassociated devies	×	~
Location and tracking of devices with random MAC	×	~
Real Time signal strength heatmap	×	~
Real Time modulation and coding (MCS) heatmap	×	~
Resl-time device capabilities heatmap	×	~
Coverage estimation	\checkmark	~
Inveilling of fake MAC address for associated devices	\checkmark	~
Dicovery of IEEE amendments supported by devices	\checkmark	~
Device fingerprinting	\checkmark	~
Spectral analysis	~	 Image: A set of the set of the
SECURITY		
Secured communication between APs (Eliptic curve)	\checkmark	V
Wireless Intrusion Prevention	×	1
Wireless Intrusion Detection	×	1
Wireless intrusion Location	×	1
WPA/WPA2 personal and Enterprise	1	1
WPA3 personal and Enterprise	1	1
Alerts and events	1	
nternal captive portal		
		· · ·
External captive portal	· · ·	~
ntegration with social login		~
Firewall	~	~
Dynamic VLANs	v.	~
Radius support	~	~
GDPR-compliant		