

Pelican Gateways - GW Series

Plug-and-Play Networking & Internet Connection

Pelican Gateways provide a secure bridge between on-site Pelican devices and the Pelican Web App. All communication is encrypted and authenticated to exceed commercial security standards, ensuring reliable and protected data transfer.



Product Name	Long Range Dual-Band Gateway	4G LTE Cellular Gateway
Part Number	GW900	GW400-LTE
Network Connection	CAT-5/6 Ethernet switch or router	Pelican AnyWhere Cellular*
Data Rate	10/100/1000 Mbsp, Full-Duplex	N/A
Wireless Frequencies	2.4 GHz & 900 MHz Dual-Mesh Networking	2.4 GHz Mesh Networking
Wireless Standards	IEEE 802.15.4	IEEE 802.15.4
Power Source	PoE (IEEE 802.2af/at) ¹	120V Wall Power Adapter
Input Power	48V DC, 60Hz, 0.25A (POE)	5 V DC, 2.0A
FCC Compliance	Class B part 15	Class B part 15
Dimensions	3.64 x 5.12-in (100 x 130 mm)	7.25 x 3.5 x 1.25-in (184 x 89 x 32 mm)
Mounting	Wall & Ceiling Mounts Included	Wall
Storage	-20°F – 160°F	-20°F – 160°F

*The Pelican AnyWhere Cellular Network requires acceptance of Pelican's Cellular Terms of Service and acknowledgment of any associated service costs prior to activation. This cellular service is provided directly by Pelican Wireless Systems and does not require any third-party cellular provider agreements.

¹If Power over Ethernet (PoE) is not available, a PoE adapter is included with the purchase. Can also be powered by USB-C 5V DC, 2.0A wall power adapter.

INTERNET & WIRELESS NETWORKING

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GW900

- Uses a standard Ethernet LAN/WAN port for Internet connectivity
- Integrates seamlessly with existing network infrastructure
- Offers two wireless mesh networks: 2.4 GHz and 900 MHz for effective long- and short-range communication
- Dual-band operation provides extended coverage and improved reliability across large or multi-building facilities

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GW400-LTE

- Includes an integrated 4G/LTE modem for cellular Internet connectivity
- Uses the 2.4 GHz wireless mesh network for Pelican device communication
- Connects to the Internet through a 4G LTE cellular network for independent and secure connectivity

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Both Gateways:

- Support up to 2,000 Pelican wireless device connections
- Utilize IEEE 802.15.4 networking standards
- Comply with FCC Class B Part 15 regulations
- Co-exist without interference alongside Wi-Fi and other wireless systems
- Self-create and self-heal Pelican's wireless mesh network for maximum reliability

SECURITY

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GW900

- Outbound connection only through a dedicated TCP port — no inbound firewall rules required.
- Default DHCP configuration with optional static IP addressing

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Both Gateways:

- End-to-end Advanced Encryption Standard (AES-128) encryption
- Factory private key exchange with Pelican Cloud Authentication Server
- Automatic private/public key exchange and rotation
- 100% network isolation from the client's internal systems
- No Wi-Fi (802.11) connection or password sharing required
- Operates separately from the business's enterprise Wi-Fi network

INCLUDED ACCESSORIES

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GW900

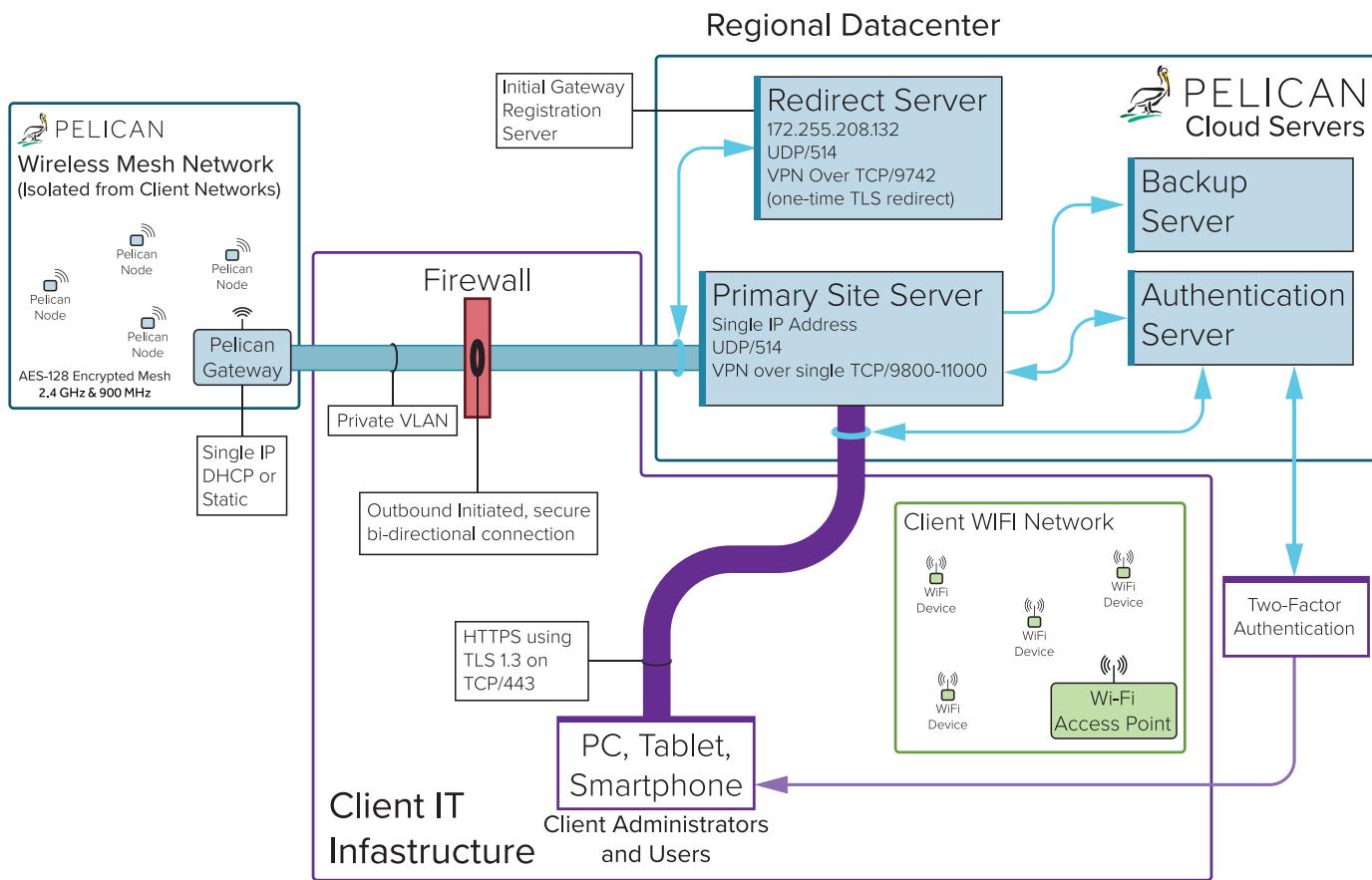
- Ceiling & Wall Mounting Brackets
- PoE Power Adapter
- 10-in CAT5 Ethernet Cable

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GW400-LTE

- 120 VAC / 5 VAC Power Adapter

GW900 NETWORK TOPOGRAPHY — for IT Reference



CHOOSING A GATEWAY

Requirement	Recommended Gateway	Description
Site has an Ethernet network	GW900	Connects directly to an existing business Ethernet network using a standard CAT5 connection.
Site lacks an Ethernet network	GW400-LTE	Pelican AnyWhere 4G/LTE network provides a fully independent connection.
Temporary connectivity	GW400-LTE	Flexible deployment for job sites, pilot programs, or temporary installations. (Can switch to GW900 post-installation).
Maximum distance connectivity or multi-building coverage (e.g., large campus).	GW900	The dual-band network is designed to extend coverage across multiple buildings and distant Pelican networks when used with WR900 Repeaters.