ALLEGION

ENGAGE™ TECHNOLOGY

GWE Gateway

ENGAGE™ Gateway with IP (PoE) and RS-485 communication



Overview

The ENGAGE™ Gateway is designed to be used with devices that feature ENGAGE™ technology, including Schlage® NDE, LE and Schlage Control™ Smart locks, to deliver real-time networked connectivity with access control software alliances. Each ENGAGE Gateway can support up to 10 wireless devices for a wide range of applications, including resident units, office and suite entries, conference rooms, sensitive storage areas and more.

Security

ENGAGE technology was designed from the ground up with security in mind. ENGAGE technology leverages industry-leading security practices, including AES 256 bit and TLS encryption to provide customers with a secure, dependable experience.

Reliability

Regular, frequent communication between the Gateway and linked ENGAGE™ enabled devices allows the Gateway to send commands such as lock, unlock and lock down from an ACP or IP host in real-time (commands are executed in < 5 seconds). All while enabling up to a 2-year battery life in linked wireless devices.

Efficiency

The ENGAGE Gateway provides the ability to leverage existing IP based or RS-485 infrastructure for maximum efficiency. Ethernet connectivity provides ability to connect to the network for real-time access control directly from an in- or out-of-network host; to further simplify installation the Gateway can be powered over ethernet (PoE). Additionally, the ENGAGE Gateway is designed to work seamlessly in an existing RS-485 environment to extend access control to more doors. It can be powered from the access control panel (ACP) or from the 12VDC supply (included).

Features and benefits

- Small form factor, versatile design fits almost anywhere
- Plug and play connectivity without opening or drilling into the housing. External recessed power, antenna, RS-485 and Ethernet (PoE) ports for easy set-up
- Designed to work seamlessly in an existing RS-485 environment
- Designed with PoE built in to leverage a building's existing network infrastructure for communication and power
- Easily and securely commissions in seconds with the ENGAGE™ mobile app—no proprietary handheld device required
- Secure AES-256 bit encrypted 2.4 GHz Bluetooth 4.0 communication between Gateway and ENGAGE™ enabled devices does not interfere with Wi-Fi networks
- Capable of managing up to 10 ENGAGE enabled devices for a wide range of applications
- Certifications: UL294, FCC Part 15, Industry Canada(IC), RoHS; PoE compliant to IEEE 802.3af/at
- Optional 12 VDC external power supply to achieve UL294 Listing

Allegion, the Allegion logo, Schlage, and the Schlage logo are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

Gateway specifications

Communication protocol (Gateway to Lock)	2.4 GHz Bluetooth version 4.0 (spread spectrum, dynamic channel switching, 40 channels)
Transmission/encryption (Gateway to Lock)	AES-256 bit key
Credential verification time	< 1 second[1]
Communication range	Up to 100 ft
Visual communications	LED status indicators
System interface	Ethernet to IP host[2] RS-485 to ACP[3]
Transmission/encryption (Gateway to ACP or IP host)	TLS version 1.2 or greater (to IP host) Optional AES-128 bit key (to ACP)
Gateway Discovery Methods (by partner IP host)	Zero-configuration (zeroconf), Static IP, or DHCP with hostname option
Power supply	PoE (12.95W compliant to IEEE 802.3af/at) 12 VDC or 24 VDC (terminals)
Operating current	PoE: 60 mA 12 VDC: 330 mA, 24 VDC: 100 mA
Operating temperature	32º to 120ºF (0º to 49ºC)
Operating humidity	0% to 100% non-condensing
Dimensions (H x W x D)	5.1" x 6.0" x 1.2" (13.0 cm x 15.3 cm x 3.04 cm)
Weight	8.6 oz (.24 kg)
Cable specifications	DC terminal input: 18AWG, 2 conductor (Belden 8760 or equivalent) up to 1000 ft (305 m) Gateway to ACP: 24AWG, 2 or 4 conductor shielded (Belden 9842, 9841 or equivalent) up to 4000 ft (1219 m) Gateway to router: CAT3, CAT5/5E or CAT6 up to 328 ft (100 m)
Data rate	Gateway to Lock: up to 1 Mbps (Bluetooth) Gateway to ACP: 9.6 kbps (RS-485) Gateway to IP Host: up to 100 Mbps (Ethernet)
Certifications	UL294, FCC Part 15, Industry Canada(IC), RoHS

Additional features

Real-time communication
Regular, frequent communication between the Gateway and linked ENGAGE enabled devices allows the Gateway to send commands such as lock, unlock and lock down from an ACP or IP host in real-time (commands are executed in < 5 seconds). All while enabling up to a 2-year battery life in linked wireless devices.

Secure encrypted transmissions
All communications between the Gateway, the ENGAGE mobile app and ENGAGE enabled devices are encrypted with an AES-256 bit key to provide virtually uncompromisable security. Additionally, all communications between the Gateway and an IP host over an existing network are secured with TLS 1.2 (or newer) encryption.

Visual indications
- Power up
- Factory default state
- Connected to mobile device
- Normal operation
- Linking status
- Diagnostics

Edge device status* (available through host connection)
- Card data
- Door position
- Loss of communication
- Request-to-exit
- Low battery
- Interior cover tamper guard
- Lock/unlock status
- Keypad data
- Request-to-enter
- Mechanical key override
- Deadbolt position
- Interior push button

Configurable items from Gateway*
- Relock parameters
- Card data format conversion
- Extended unlock
- Fail safe/fail secure/fail as-is
- Door held pre-alarm
- Cache memory parameters
- Reader configuration
- Keypad configuration
- Inside pushbutton configuration
- User interface configuration

*Capability varies by edge device. Refer to device solution sheet.

Ordering information

- GWE – ENGAGE™ Gateway with RS-485 and IP (PoE) connectivity. Supports up to 10 ENGAGE™ enabled devices with select brands of access control panels.

Optional accessories
- **593PI-12DC** – 12 VDC power supply

1 Dependant on latency time of access control panel.
2 Supports NDE Series, LE Series and Schlage Control Smart locks
3 Supports NDE Series and LE Series

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a $2 billion company, with products sold in almost 130 countries. For more, visit **www.allegion.com.**

aptiQ ■ LCN ■ SCHLAGE ■ STEELCRAFT ■ VON DUPRIN

ALLEGION™

© 2017 Allegion
010842, Rev. 01/17
www.allegion.com/us