Gallagher SMB solution

Gallagher offers a fully integrated cloud-based security system for small to medium businesses. The system provides alarm management, access control and user management within the Gallagher SMB mobile app.

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Gallagher Kit

The Gallagher SMB Base Kit (C500305) contains the hardware required to get the system up and running and will arrive to the installer pre-assembled within the cabinet. The Monitoring Kit or Expansion Kit can be added to the base kit to provide additional functionality.

Kit Contents

- Gallagher Dual Cabinet
- Gallagher SMB Controller C6000
- Gallagher SMB 8In 4Out Board x 2
- Gallagher SMB Reader (T11, T15 or T30)
- LifeSafety FPO150 Power Supply

- LifeSafety D8 Distribution Board
- Life Safety B100 DC - DC Converter Board
- Monitoring Kit (optional)
- Expansion Kit (optional)

Gallagher SMB Controller 6000

The Gallagher SMB Controller 6000 can manage localised intruder alarms, access control, and site management tasks, to ensure your site operates safely and efficiently. The controller is connected to Gallagher's cloud infrastructure hosted on Amazon's AWS cloud computing platform. The controller is authenticated and authorised with the cloud using unique RSA encryption keys securely generated and pre-loaded in the Gallagher factory. All communication with the cloud is over a secure, encrypted network connection using industry best practice encryption protocols (TLS/AES).

Key features

- Controller is updated automatically with the latest firmware including new functionality and any necessary cyber security updates.
- Provides self-monitoring capabilities – users can receive alarm notifications, respond to intruder alarms.
- Controller data is securely stored and backed up in the cloud.
- High-speed encrypted RS485 connectivity and software updates to field devices.
- Strong authentication and encryption between the controller and AWS cloud server.

- Remote configuration through the Configuration application.
- Access control support for up to 10 doors.
- An unlimited number of alarm Areas.
- An unlimited number of users.
- 80,000 system events can be stored locally if the cloud is temporarily inaccessible.

Gallagher SMB Readers

Gallagher SMB Readers allow for secure access control and local alarm management using a smartphone (with Bluetooth® or NFC enabled), SMB Key Tag, SMB Card or User Code (User Codes supported by the T30 Reader only). SMB Reader options include the Gallagher T11, T15 and T30.

Key features

- Request access at a door using your smartphone, an SMB Key Tag, an SMB Card or a User Code.
- Arm or disarm the site or individual areas at the reader using a smartphone, an SMB Key Tag, an SMB Card or a User code.
- Environmentally friendly – RoHS compliant and designed for minimal power consumption.
- Heartbeat monitoring for real-time reader status.
- Utilising the high speed RS485 HBUS protocol, Gallagher readers can offer an unparalleled access decision response time.
- Controller supports up to 10 access controlled doors.

Gallagher SMB HBUS I/O Boards

The Gallagher SMB HBUS 8In 4Out Boards provide secure input and output device options for connecting third-party devices to the Gallagher system. The HBUS communications protocol is based on the RS485 standard and allows each HBUS I/O Board to communicate with the Gallagher Controller over a distance of up to 1640 ft at a speed of 1 Mb/s.

Key features

- Multiple boards can be daisy chained together along the same cable run
- Unique identifier for all field devices
- IT grade authentication and encryption levels to prevent data tampering

Variable end of line resistance

Configurable end of line resistance is supported for all Gallagher HBUS I/O boards.

Controlling inputs and outputs

Making no high-level decisions, the HBUS I/O boards monitor the state of the balanced inputs and switches the output relays as instructed by the controller.
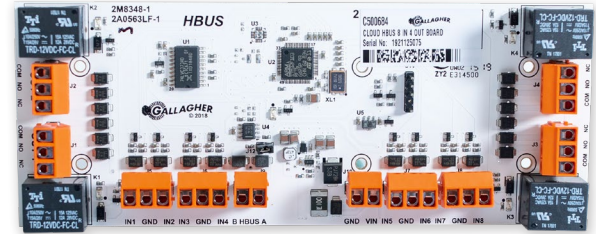
LifeSafety Power components

Gallagher SMB utilises the LifeSafety FPO150 Power Supply, D8 Distributor Board and B100 DC - DC Converter Board.

Refer to the LifeSafety Power website for more information about LifeSafety Power components, including installation manuals.

https://www.lifesafetypower.com

# Gallagher SMB app features

Security Alarm System

- Arm and disarm the alarm locally or remotely.
- Add, edit, and remove an unlimited number of users, and manage which areas they have privileges for.
- Receive notifications when an alarm has been triggered (self-monitoring only), or when the system hasn't been armed by a specified time.
- View arming, disarming, and access taken events in the History log.
- Manage multiple sites using one app.

Access Control

- Lock and unlock doors locally or remotely.
- Restrict who can gain access to doors.
- Set an access schedule to lock doors at certain times of the day. The door will unlock for the scheduled unlock period, only after a user has requested access at the door.
- Assign a user an SMB Key Tag, SMB Card or a User Code.

Third-Party Monitoring

- Opt for a monitoring company to manage alarms. (monitoring kit required)
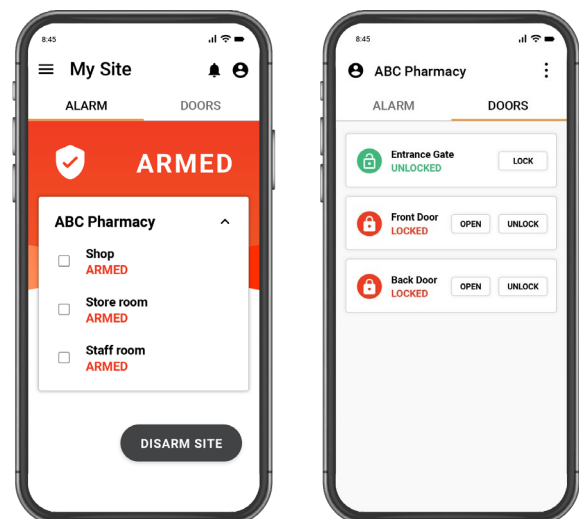
System architecture

Our cloud-based architecture is designed with the security technician in mind. The system is designed to be plug-in play - once powered on, the controller will automatically be assigned an IP address using DHCP and update itself with the latest firmware, cyber security, and functionality.

If the controller loses its connection to the cloud, it will continue to operate locally, keeping the site secure. During this time, the customer will be able to arm and disarm their site at the reader, and request access through doors.
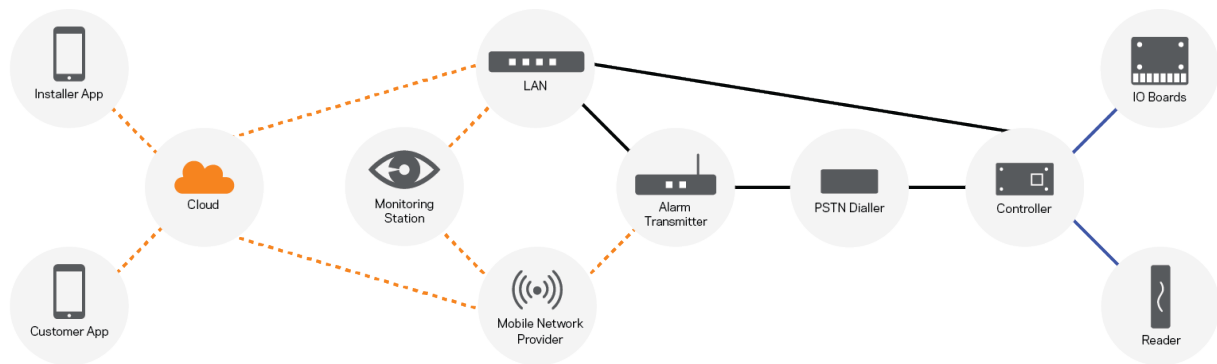
Capacity and expansion

On-board Capacity

The Gallagher SMB system can support a combination of intruder detection and access control functions:

- 4 - 8 Doors*
- 16x Inputs
- 4x Outputs
- Unlimited users
- Unlimited areas

*The system comes with a power supply which can support up-to 8 doors, depending on the configuration of the site.

Gallagher SMB Expansion Kit

Gallagher offer a scalable solution should you require additional inputs and outputs or more doors. The system can be extended by connecting multiple HBUS devices to a single RS485 port on the controller. Each RS485 can support I/O boards and readers to increase the system's capacity to:

- 10x Doors
- 10x Readers (T11, T15 or T30)
- 128x Inputs
- 64x Outputs
- Unlimited users
- Unlimited areas

The Expansion Kit includes an additional HBUS 8In 4Out Board and LSP D8 Power Distributor if you wish to add additional doors. The HBUS 16In 16Out Board can also be utilized for expansion.

Gallagher SMB Monitoring Kit

Gallagher have developed an integration with the Alula BAT-Connect that supports the Contact ID alarms transmission protocol. The BAT-Connect connects via a PSTN dialler. Alarms are sent using the device to the nominated monitoring station.

System capabilities

	Default	Maximum
Access controlled doors	8	10
Inputs	16	128
Outputs	8	64
HBUS devices	2	16 HBUS I/O Boards, 10 Readers
Areas	Unlimited	-
Users	Unlimited	-

Technical specifications

Gallagher SMB Kit		
Gallagher SMB Dual Cabinet		
Housing	Height x Width x Depth	620 x 372 x 150 mm
Material		Approx 1mm thick steel
Environmental Data	Temperature range Humidity Protection rating	-10 °C to 50 °C 95% non-condensing IP44

Gallagher SMB Controller 6000		
Tamper protection		Optical sensor
Power	Voltage Idle current @ 13.6 Vdc	9 Vdc - 16 Vdc 175 mA
Environmental limits	Operating temperature Humidity	-10 °C to +70 °C 95% non-condensing
Communications	Ethernet network connection RS485 device communications (2 ports) Number of ports	10/100 BaseT Ethernet Port Maximum speed- 1 Mbit/s, 500 m 2 x RS485 1 x RS232
Standards compliance	CE, RCM, FCC Compliance and certification information is available on our support site or by contacting Gallagher	
Dimensions	Height x Width x Depth	100 x 180 x 42 mm

Gallagher SMB T11 Reader		
Voltage		9 Vdc - 16 Vdc
Operating current	Idle current @ 13.6 Vdc	80 mA
Dimensions	Height x Width x Depth	115 x 70 x 12 mm
Environmental protection		IP68
Impact rating		IK07
UV Stability		Nil structural degradation for the life of the reader
Temperature range		-35 °C to + 70 °C
Cabling	CAT 5e or better	500 m (multiple HBUS devices - data only) 100 m (multiple HBUS device - data and power)
	SEC472	400 m (multiple HBUS devices - data only) 100 m (multiple HBUS device - data and power)

CAT 5e or better is the recommended cable types for optimal HBUS RS485 performance

Gallagher SMB T15 Reader

Voltage		9 Vdc - 16 Vdc
Operating current	Idle current @ 13.6 Vdc	81 mA
Dimensions	Height x Width x Depth	139 x 44 x 23 mm
Environmental protection		IP68
Impact rating		IK07
UV Stability		Nil structural degradation for the life of the reader
Temperature range		-35 ºC to + 70 ºC
Cabling	CAT 5e or better	500 m (multiple HBUS devices - data only) 100 m (multiple HBUS device - data and power)
	SEC472	400 m (multiple HBUS devices - data only) 100 m (multiple HBUS device - data and power)

CAT 5e or better is the recommended cable types for optimal HBUS RS485 performance

Gallagher SMB T30 Reader

Voltage		9 Vdc - 16 Vdc
Operating current	Idle current @ 13.6 Vdc	87 mA
Dimensions	Height x Width x Depth	118 x 86 x 26.7 mm
Environmental protection		IP68
Impact rating		IK09
UV Stability		Nil structural degradation for the life of the reader
Temperature range		-35 ºC to +70 ºC
Cabling	CAT 5e or better	500 m (multiple HBUS devices - data only) 100 m (multiple HBUS device - data and power)
	SEC472	400 m (multiple HBUS devices - data only) 100 m (multiple HBUS device - data and power)

CAT 5e or better is the recommended cable types for optimal HBUS RS485 performance

Gallagher HBUS 8In 4Out Board

Voltage		9 Vdc - 16Vdc
Fuse		Onboard 1 A resettable polyfue
Operating current	Relays off Relays on	45 mA DC 200 mA DC
Power rating	Relays off Relays on	0.61 W 2.72 W
Temperature range		-10 ºC to 50 ºC
Humidity		0 - 95% non-condensing
Dimensions	Height x Width x Depth	30 mm (with orange connectors) x 70 mm x 180 mm
Standards and compliance		FCC, RCM, CE, RoHS

Gallagher Mobile SMB App

iOS	11 and above iPhone 5s and above
Android	5.0 and above
Desktop	
Communications to reader	iOS - Bluetooth only Android - NFC then Bluetooth
Mobile credential security	FIDO authentication, using pre-shared asymmetric keys with elliptic curve cryptography (P256)

Gallagher SMB Configuration App

Desktop	Chrome version 70 and above

Gallagher Cloud	
Host	Amazon Web Services
Security	All communications between the controller and the Cloud are encrypted using AES encryption
Data storage	Customer data (site data) is stored within region. Customer data is backed up every four hours, and the backups replicated across the data centres. All historical events are stored within their own event database.
Data protection	256-bit AES* encryption
Average data usage (without downloads)	4MB per day
Cellular coverage	Regional Network Provider

The products described in this document are subject to continuous development and improvement so specifications and information may change without notice. System configuration, network capacities and the volume of system activity affect performance.

Part numbers

Kit Contents	SMB Base Kit	Part #
1 x Gallagher SMB Controller	✓	C500100
2 x Gallagher SMB HBUS 8In 4Out Board	✓	C500684
1 x LSP 150 W PSU	✓	C305747
1 x LSP D8 Power Distribution Module	✓	C305743
1 x LSP B100 Secondary Voltage Module	✓	C305740
1 x Gallagher SMB T11 or T15 Reader	✓	
1 x Metal Mounting Plate with ducting	✓	
1 x Door earth wire	✓	
1 x Rear tamper light pipe wrapped with reflective label and grommet	✓	
1 x Wiring loom and associated internal cable assemblies	✓	
2 x Cabinet keys	✓	
4 x Screws (for fixing cabinet to the mounting surface)	✓	
32 x 4k7 Ω resistors	✓	

Expansion Items & Spares	
Gallagher HBUS 8In	C300680
Gallagher HBUS 8In 4Out Board	C300684
Gallagher HBUS 8 Port Hub	C300698
Gallagher HBUS 16In 16Out Board	C300688
Gallagher SMB T11 Reader Black	C500430
Gallagher SMB T11 Reader White	C500431
Gallagher SMB T15 Reader Black	C500480
Gallagher SMB T15 Reader White	C500481
Gallagher SMB T30 Reader Black	C300490
Gallagher SMB T30 Reader White	C300491
Gallagher SMB Tags Black (pack of 10)	C500470
Gallagher SMB Tags White (pack of 10)	C500471
1 x I/O Board Mounting Plate	C200001
2 x Half Footprint Mounting Plate	C200002
Expansion Kit	C500310
Monitoring Kit (required for third-party monitoring)	C500615

Subscription Packages
Contact your Gallagher SMB representative

security.gallagher.com

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