

Gallagher SMB solution

Gallagher offers a fully integrated app-based security solution designed to simplify and streamline security for businesses. The system provides alarm management, access control and user management within the Gallagher SMB mobile app.



Gallagher Kit

The Gallagher SMB Base Kit (C500300) contains the hardware required to get the system up and running and will arrive to the installer pre-assembled within the cabinet. An optional SMB Permaconn Kit (C500609) can be added to the Base Kit to provide a backup 3G/4G cellular connection or alarms transmission to a third-party monitoring station.

Kit Contents

- Gallagher SMB Cabinet
- Gallagher SMB Controller 6000
- Gallagher SMB 8In Board
- Gallagher SMB 8In 4Out Board
- Gallagher SMB Fire Fuse Relay Board
- 3.5A Power Supply
- SMB Permaconn 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 private 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, and request a guard call-out.
- Controller data is securely stored and backed up in the cloud.
- Controller can be supported with an optional 3G/4G cellular back-up, which re-connects to the cloud to ensure redundancy if the site's local internet connection is lost.
- 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 Installer 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 Board and 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 500 m (1640 ft) at a speed of 1 Mb/s.

Key features

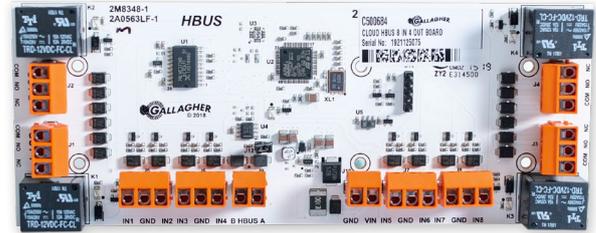
- Multiple boards can be daisy chained together along the same cable run
- Unique identifier for all field devices
- IT grade authentication and encryption levels to prevent data tampering

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.



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

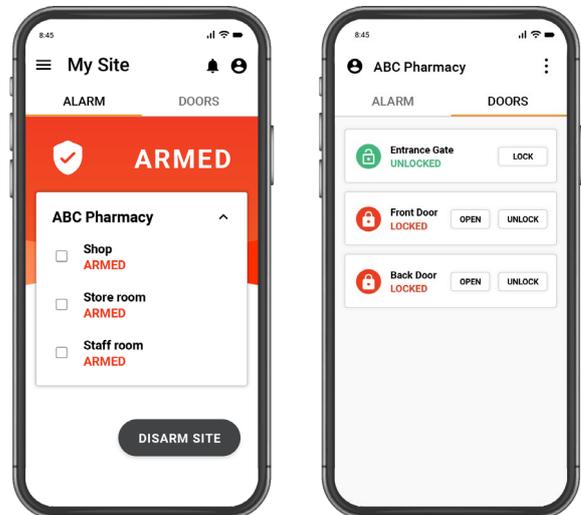
- Lock and unlock doors locally or remotely.
- Restrict who can gain access to doors.
- Set an access schedule to lock doors at certain times of the day. The door will unlock for the scheduled unlock period, only after a user has requested access at the door.
- Assign a user an SMB Key Tag, SMB Card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

Third-party Monitoring

- Opt for a monitoring company to manage alarms.

Guarding

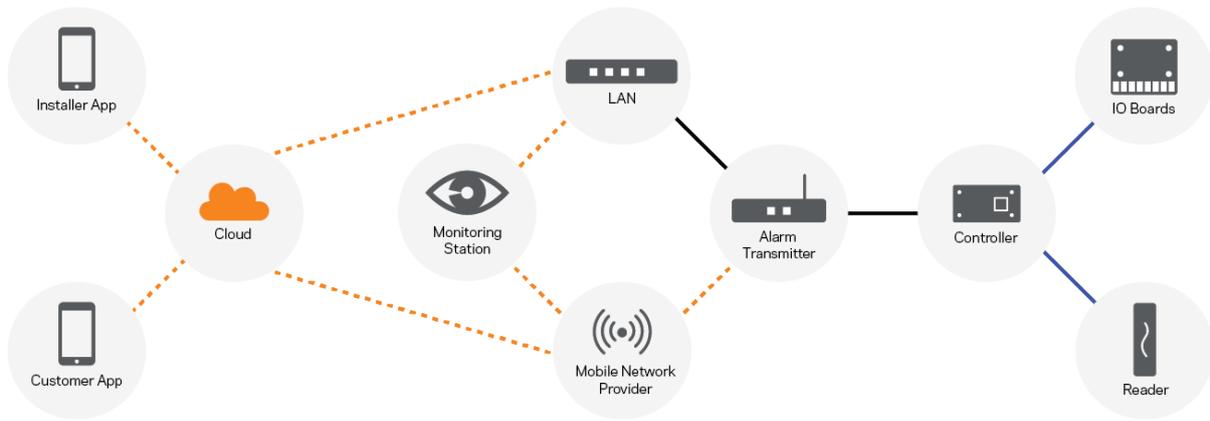
- Request a guard call-out when an incident occurs.
- Enable automated guarding and have the system automatically request a guard in an alarm incident after a set period.
- Receive real-time updates from the guard, such as the guard's estimated time of arrival, actions on site, and a final report.



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:

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

*The system comes with a 3.5 A power supply which can support up-to 4 doors.

Expansion

Gallagher offer a scalable solution should you require additional inputs and outputs or more than 4 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

*To support 5 or more doors within a single cabinet, a dual cabinet is available that comes with an 8 A power supply.

Gallagher SMB Cabinet

The Gallagher SMB Cabinet contains a 3.5 A power supply, and supports optical front and rear tamper detection. This steel enclosure provides one footprint for the controller and I/O boards. The power supply supports "Mains Failure" and "Battery Low" monitoring.

Gallagher Dual Cabinet

The Gallagher Dual Cabinet contains a 8 A power supply, and supports optical front and rear tamper detection. This steel enclosure accommodates two footprints, doubling the housing capacity for I/O Boards. The power supply supports "Mains Failure" and "Battery Low" monitoring.



The HBUS 16In 16Out Board can be utilized with the SMB Kit to expand the solution.

System capabilities

	Default	Maximum
Access controlled doors	4	10
Inputs	16	128
Outputs	4	64
HBUS devices	3	16 HBUS I/O Boards, 10 Readers
Areas	Unlimited	-
Users	Unlimited	-

Technical specifications

Gallagher SMB Kit

Gallagher SMB Cabinet

Housing	Height x Width x Depth	500 x 480 x 150 mm
	Footprints	1
Material		Approx 1mm thick steel
Environmental Data	Temperature range	-10 °C to 50 °C
	Humidity	95% non-condensing
	Protection rating	IP44

Gallagher SMB Controller 6000

Tamper protection		Optical sensor
Power	Voltage	9 Vdc - 16 Vdc
	Idle current @ 13.6 Vdc	175 mA
Environmental limits	Operating temperature	-10 °C to +70 °C
	Humidity	95% non-condensing
Communications	Ethernet network connection	10/100 BaseT Ethernet Port
	RS485 device communications (2 ports)	Maximum speed- 1 Mbit/s, 500 m
	Number of ports	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
	CAT 5e or better	500 m (multiple HBUS devices - data only) 100 m (multiple HBUS device - data and power)
Cabling	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 °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 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 °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 HBUS 8In Board

Voltage		9 Vdc - 16 Vdc
Fuse		Onboard 1 A resettable polyfue
Operating current		50 mA DC (all inputs terminated with 4k7 resistors)
Power rating		0.68 W
Temperature range		-10 °C to 50 °C
Humidity		0 - 95% non-condensing
Dimensions	Height x Width x Depth	30 mm (with orange connectors) x 44mm x 23mm
Standards and compliance		FCC, RCM, CE, RoHS

Gallagher HBUS 8In 4Out Board

Voltage		9 Vdc - 16Vdc
Fuse		Onboard 1 A resettable polyfue
Operating current	Relays off	45 mA DC
	Relays on	200 mA DC
Power rating	Relays off	0.61 W
	Relays on	2.72 W
Temperature range		-10 °C to 50 °C
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 Fuse & Fire Relay Board

Voltage		13.6 Vdc ±15%
Operating current	Relays off	30 mA DC
Relay rating		10 A
Glass fuse rating		1 A
Humidity		0 - 95% non-condensing
Dimensions	Height x Width x Depth	30 mm (with orange connectors) x 70 mm x 87 mm

Gallagher 3.5 A Power Supply

Input voltage		90 - 250v AC
Output voltage		Primary 13.8 V
Output current		3.5 A
Power rating		51.38 W
Power Low and AC Fail outputs	Normal State Alarm State	2.5 V 3 V

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
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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 replicated across multiple data centres in Sydney, Australia. 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 6000	✓	C500100
1 x Gallagher HBUS 8In Board	✓	C500680
1 x Gallagher HBUS 8In 4Out Board	✓	C500684
1 x Gallagher SMB Fire Relay & Fuse Board	✓	C500993
1 x Power Supply - 3.5 A	✓	C200340
1 x I/O Board Mounting Plate	✓	C200001
1 x Gallagher SMB T11 or T15 Reader	✓	
1 x Metal Mounting Plate with ducting	✓	
1 x Door earth wire	✓	
1 x Power supply 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	✓	
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 Fire Relay & Fuse Board		C500993
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		C500491
Gallagher SMB Tags Black (pack of 10)		C500470
Gallagher SMB Tags White (pack of 10)		C500471
Power Supply - 3.5 A		C200340
Power Supply - 8.0 A		C200440
Gallagher SMB Cabinet		C500120
Dual Cabinet with 8.0 A Power Supply		C200104
1 x I/O Board Mounting Plate		C200001
2 x Half Footprint Mounting Plate		C200002
Permaconn Kit (required for third-party monitoring)		

Subscription Packages

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