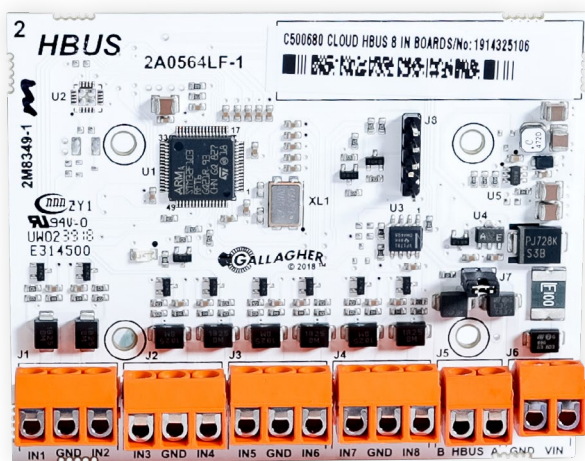


Gallagher SMB HBUS Boards

Gallagher SMB HBUS I/O Boards provide secure input and output device options for connecting third-party devices to the SMB solution.



Gallagher SMB HBUS I/O Boards include

- 8In Board
- 8In 4Out Board

The HBUS communications protocol is based on the RS485 standard and allows each HBUS I/O device to communicate with the Gallagher SMB Controller 6000 over a distance of up to 500 m (1640 ft) at a speed of 1 Mb/s.

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

Key features

- End of line resistance value can be assigned at the board level
- Multiple boards can be daisy chained together along the same cable run
- Unique identities for all field devices
- IT grade authentication and encryption levels to prevent data tampering

Variable end of line resistance

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

Controlling inputs and outputs

Making no high level decisions, the Gallagher SMB HBUS I/O boards monitor the state of the balanced inputs and switches the output relays as instructed by the Gallagher SMB Controller 6000.

Monitoring inputs

The inputs on Gallagher SMB HBUS I/O Devices are 4-state balanced inputs. The four states monitored are:

- Open
- Closed
- Short Circuit (Tamper)
- Open Circuit (Tamper)

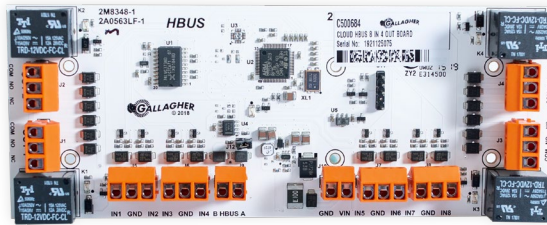
Inputs may be used for monitoring:

- Access controlled doors
- Passive Infrared detectors (PIRs)
- Uncontrolled doors
- Equipment alarms
- Any other devices that provide a clean contact

Activating outputs

Relays may be triggered by timers or with logic configuration used to:

- Unlock doors
- Activate sirens



LED indications

3 Flash (Red)	No communications with the controller
2 Flash (Red)	Communications with the controller, but board is not configured
1 Flash (Red)	Fully configured and functioning normally

Technical Specification

8In Board	
Product number	C500680
Voltage	13.6 Vdc +/- 15%
Fuse	Onboard 1 A resettable polyfused
Current	50 mA (all inputs terminated with 4k7 resistors)
Power rating	0.68 W
Temperature range	-10 °C to +50 °C (+14 °F to +122 °F)
Humidity	95% non condensing ¹
Inputs	8 (format = 4 state monitoring)
HBUS ports	1 (format = RS485 balanced)
Dimensions	Height with terminal blocks 30 mm (1.2 ") Depth 70 mm (2.8 ") Width 87 mm (3.4 ")

8In 4Out Board	
Product number	C500684
Voltage	13.6 Vdc +/- 15%
Fuse	Onboard 1 A resettable polyfused
Current	45 mA (relays off) 200 mA (relays on)
Power rating	0.61 W (relays off) 2.72 W (relays on)
Temperature range	-10 °C to +50 °C (+14 °F to +122 °F)
Humidity	95% non condensing ¹
Inputs	8 (format = 4 state monitoring)
Output relays	4 (format = 24 Vdc/ac, 3 A resistive, 1 A inductive)
HBUS ports	1 (format = RS485 balanced)
Dimensions	Height with terminal blocks 30 mm (1.2 ") Depth 180 mm (7.1 ") Width 70 mm (2.8 ")

16In 16Out Board	
Product number	C300688
Voltage	13.6 Vdc +/- 15%
Fuse	Onboard 2 A resettable polyfused
Current	73 mA (relays off) 674 mA (relays on)
Power rating	0.99 W (relays off) 9.17 W (relays on)
Temperature range	-10 °C to +50 °C (+14 °F to +122 °F)
Humidity	95% non condensing ¹
Inputs	16 (format = 4 state monitoring)
Output relays	16 (format = 24 Vdc/ac, 3 A resistive, 1 A inductive)
HBUS ports	1 (format = RS485 balanced)
Dimensions	Height with terminal blocks 30 mm (1.2 ") with connectors Depth 180 mm (7.1 ") Width 180 mm (7.1 ")

¹ Gallagher modules are UL humidity tested and certified to 85% and have been independently verified to 95%.

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