

Controller 6000

The Gallagher Controller 6000 (C6000) is the interface between the Gallagher Command Centre Server and the distributed field hardware. Capable of processing, storing and communicating data in real time when the Gallagher Command Centre Server is offline. The Controller 6000 uses straight forward system architecture to provide powerful and flexible configuration.

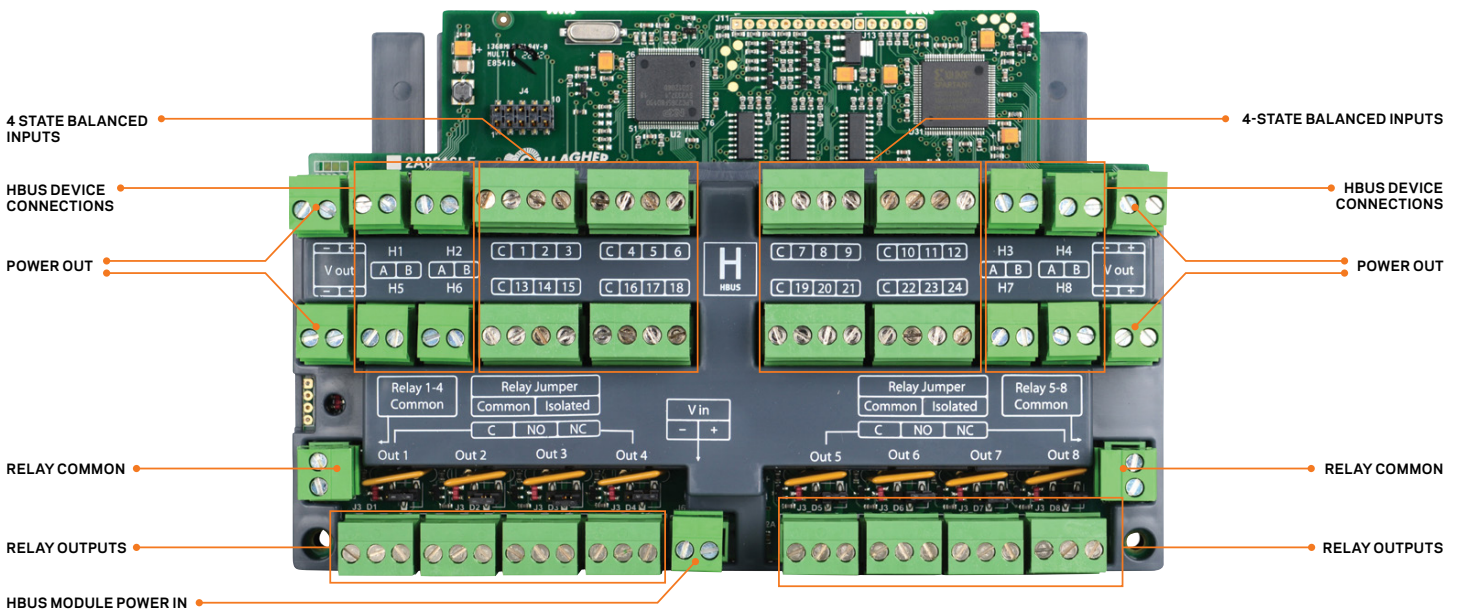
Features and benefits:

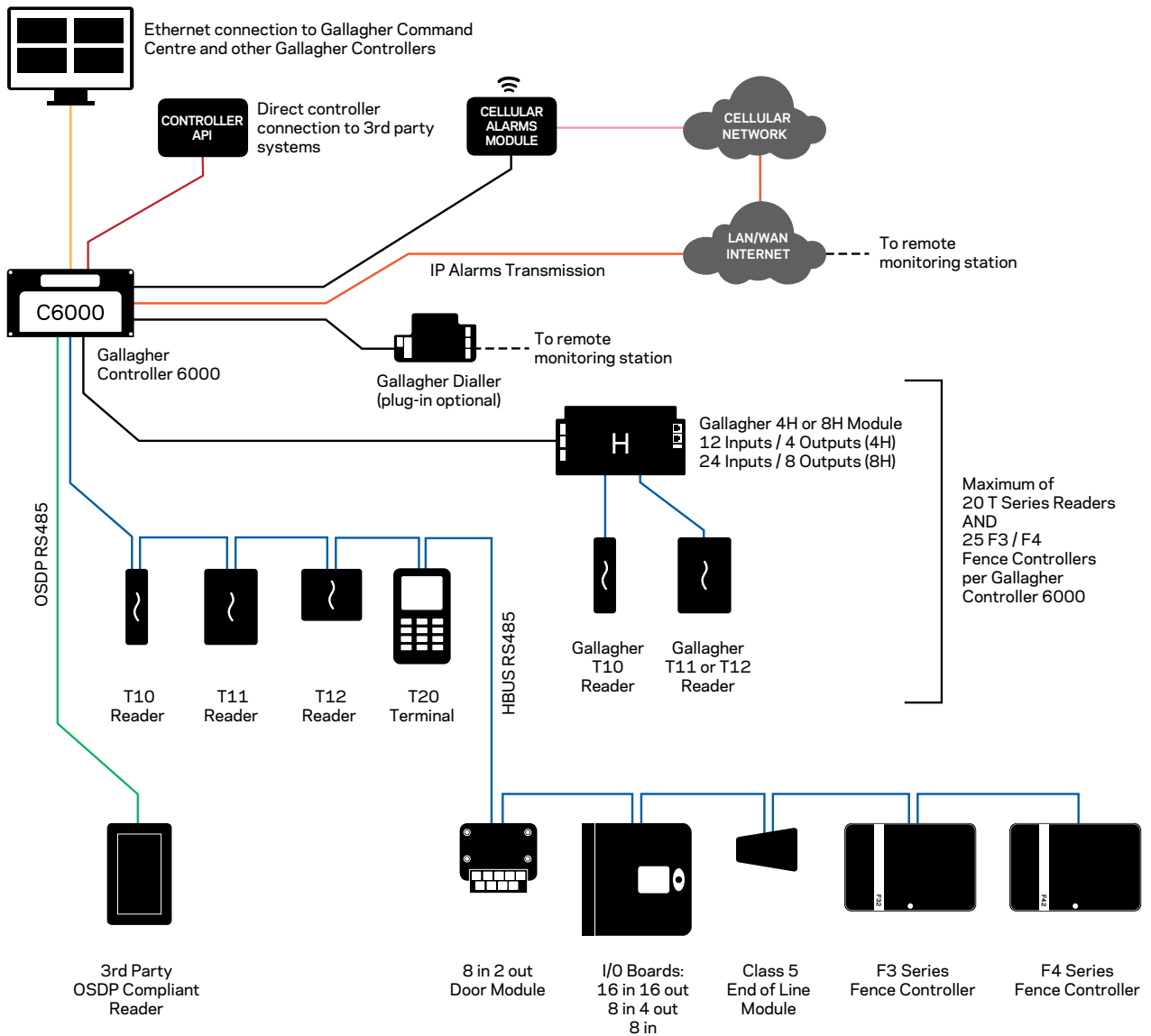
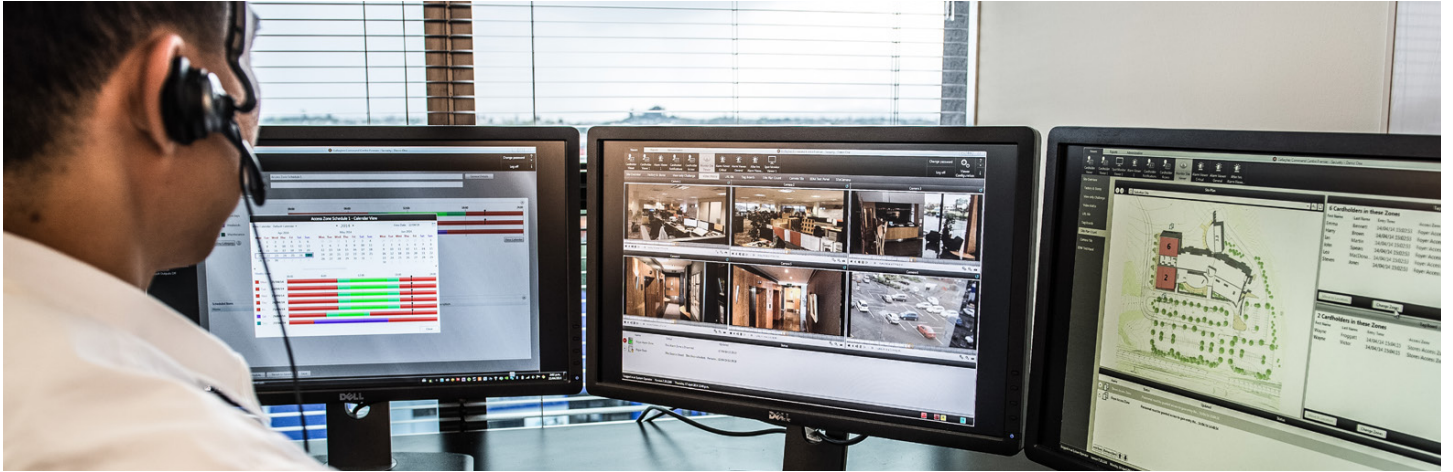
- Has two RS485 connections, which may be individually configured to support HBUS, GBUS, SensorBUS or Aperio™ communications
- Provides connectivity to the 4H & 8H HBUS device modules as well as 4R & 8R reader modules
- Communicate directly with other Gallagher Controllers without requiring the Gallagher Command Centre server to be online over a LAN/WAN using TCP/IP for the purposes of monitoring, back-up and control
- Provides I/O functionality via the Controller reader modules and other I/O expansion options are also available
- Communicates via the 4H or 8H modules with Gallagher Readers using the high speed HBUS RS-485 protocol
- Provides onboard front and rear tamper control
- Controls up to ten doors when paired with module choices available to cater for a wider range of site requirements
- Provides a cost-effective approach to engineering a Gallagher system through its modular design
- USB port (USB2.0) is available as an alternative to the network connection for securely loading software configuration into the Controller. The USB port can also be used for connection to a cellular modem for alarm transmission.
- Send and receive events from third party systems within the C6000 using the Gallagher Controller Application Programming Interface (API)
- Provides elevator access control
- Supports the Gallagher Remote Arming Terminal for management and operation of intruder alarm functions and the Gallagher Perimeter Security Fence Controller for integrated perimeter security.
- Supports alarm management and remote alarms transmission via multiple mediums:
 - LAN/WAN networks using TCP/IP protocol
 - Cellular networks, via cellular modem
 - PSTN Alarms, via Gallagher Dialler





Key features of the Gallagher Controller 6000 and 8H Module





Technical Specifications

Gallagher Controller 6000

Factory programmed with a unique network MAC address;

Operating System	Microsoft™ Windows CE 6					
Power Supply	Voltage	13.6 v DC±15%				
Current (measured at 13.6 V DC with module connected)*	Relays Operating	No relays	4 relays	8 relays	Variant Notes	Max. number of doors
Controller 6000	175mA	320mA	460mA	Standard		10
Controller 6000, Starter Kit Variant	175mA	320mA	460mA	Starter Kit Command Centre license required		8
Controller 6000, 2 Door Variant	175mA	320mA	460mA	2 doors only configurable		2
Controller 6000HS	610mA	730mA	870mA	High Spec		10
* Note: Current measurements are indicative only and exclude external devices. Currents have been rounded up to the nearest 5mA. Controller 6000HS measurements include the use of both primary and secondary high speed ethernet ports. Please refer to the Gallagher Connectivity Guide and product Installation Notes for detailed power supply and operating characteristics						
Temperature Range	Gallagher Controller 6000		-10 ° to +70 ° C			
	Gallagher Controller 6000 High Spec (HS)		-10 ° to +55 ° C			
Humidity	95% Noncondensing					
Data Storage per Gallagher Controller 6000	Max. number of access zones		Unlimited	Number of cardholders	500,000	
	Max. number of alarms zones		256	Number of events	80,000	
	Max. number of access groups		2,000	Max. inter-controller peer to peer connections	60	
	Max. number of time schedules		400			
Elevator Control	Max. Number of levels per Controller 6000		75 (low level) 256 (high level)*	*Please refer to Technical Reference Manual: 3E1245		
RS485 Device Communications (2 Ports)	HBUS		Up to 1 Mbits per second, 500m (1640ft)			
	GBUS		38.4 Kbits per second 1200m (3937ft)			
	Sensor Bus		115.2kbits per second, dependent on cable type			
	Aperio		19.2kbits per second, 1000m max.			
Network Communications	Network connection - Controller 6000		10/100 BaseT Ethernet Port			
	Network connection - Controller 6000 High Spec		10/100/1000 BaseT Ethernet Port (2 ports)			
	Network protocol		TCP/IP - 256 bit AES symmetric encryption for Controller to Server and Inter-Controller communications			
Compliance Standards	CE, A-Tick, C-Tick, FCC and UL					

Gallagher Modules

Device Connectivity	Reader Connections		HBUS Connections	Inputs	Relay Outputs	DC Outputs
	Gallagher	Wiegand				
Gallagher 4H Module	-	-	4	12	4	2
Gallagher 8H Module	-	-	8	24	8	4
Gallagher 4R Module	4	2	-	12	4	2
Gallagher 8R Module	8	4	-	24	8	4
Data Format	4R / 8R Modules		Cardax IV & Wiegand Readers			
	4H/8H Modules		HBUS Readers & F22 Fence Controllers & Z10 Tension Sensor			
Relay Specifications	Resistive load		3 A at 24 V DC/AC		DC Outputs	0.5 A per output
	Inductive load		1 A at 24 V DC/AC			
Gallagher Cabinets	Refer to Gallagher Cabinet datasheet					
Part Numbers	Gallagher Controller 6000		C300100	Gallagher 4R Module	C300141	
	Gallagher Controller 6000, 2 Door Variant		C300111	Gallagher 4H Module	C300142	
	Gallagher Controller 6000 High Spec		C300101	Gallagher 8R Module	C300181	
				Gallagher 8H Module	C300182	

Notes: 1. Compliance with other international standards will be proven as required. Please contact Gallagher for the latest list of approvals.

All Gallagher products must be installed in accordance with the Installation Notes to comply with international standards. 2. System configuration, network capabilities, and the volume of system activity affect performance. Please contact Gallagher technical support for advice.

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