Gallagher Controller 6000

The Gallagher Controller 6000 has the ability to enforce business rules, monitor its environment, communicate with other integrated systems and make offline access decisions.
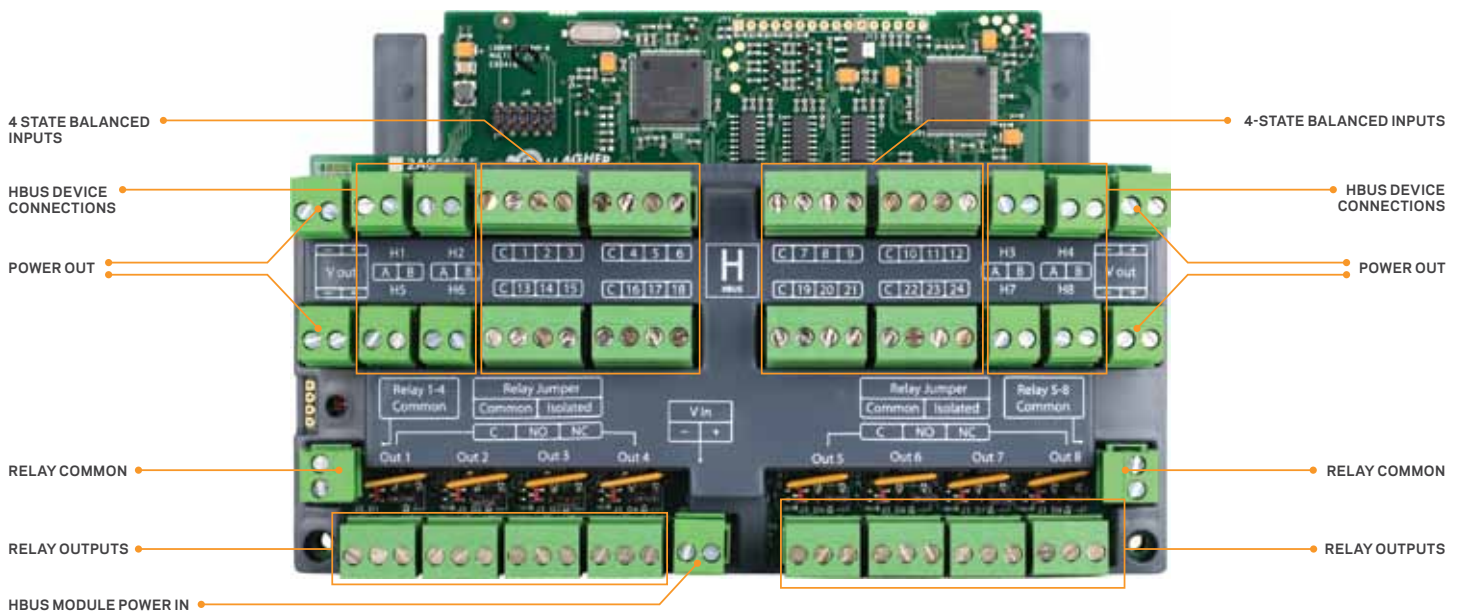
The Gallagher Controller 6000 (C6000) is the interface between the Gallagher Command Centre Server and the distributed field hardware. Capable of processing, storing and communicating data in real time when the Gallagher Command Centre Server is offline. The Controller 6000 uses straight forward system architecture to provide powerful and flexible configuration.
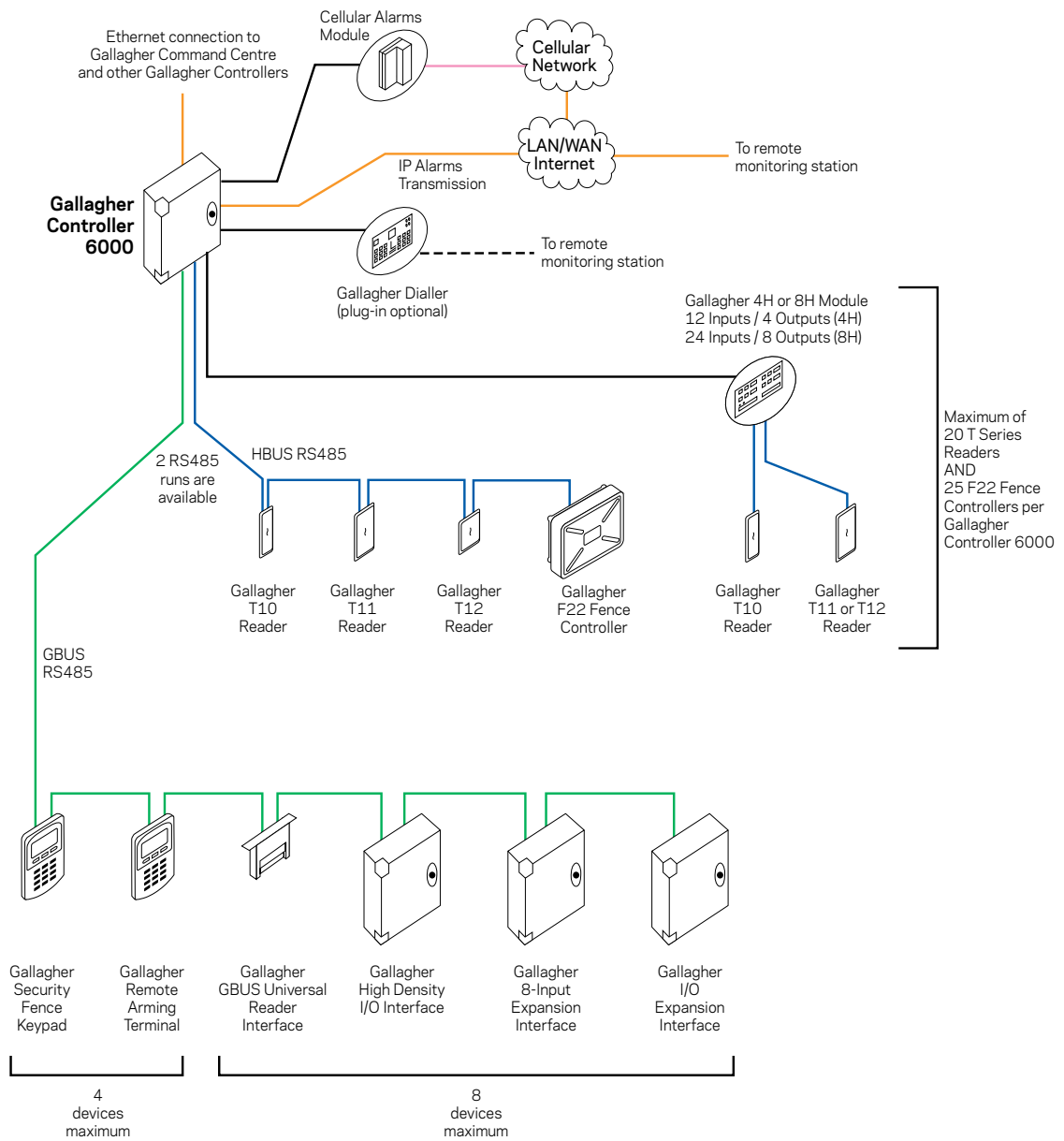
Key features:

- 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

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Key features of the Gallagher Controller 6000 and 8H Module

DIP SWITCHES

CONTROLLER POWER IN

RS485 PORTS

IN SERVICE RELAY
(6000HS ONLY)

AUXILLIARY RS232 PORT

PRIMARY 10/100/1000
BASET ETHERNET PORT

SECONDARY 10/100/1000
BASET ETHERNET PORT
(6000HS ONLY)

USB PORT

4 STATE BALANCED
INPUTS

HBUS DEVICE
CONNECTIONS

POWER OUT

RELAY COMMON

RELAY OUTPUTS

HBUS MODULE POWER IN

4-STATE BALANCED INPUTS

HBUS DEVICE
CONNECTIONS

POWER OUT

RELAY COMMON

RELAY OUTPUTS

Controller 6000
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RS485 2
A B Term +
Serial
Primary Ethernet
USB

Default IP Factory O/S
2 | No Config
4,5 or 6 | Call Technical support
codes
1 | Normal
3 | No IP Address

Ethernet connection to Gallagher Command Centre and other Gallagher Controllers

Cellular Alarms Module

Cellular Network

LAN/WAN Internet

To remote monitoring station

Gallagher Controller 6000

IP Alarms Transmission

Gallagher Dialler (plug-in optional)

To remote monitoring station

Gallagher 4H or 8H Module
12 Inputs / 4 Outputs (4H)
24 Inputs / 8 Outputs (8H)

2 RS485 runs are available

HBUS RS485

Gallagher T10 Reader

Gallagher T11 Reader

Gallagher T12 Reader

Gallagher F22 Fence Controller

Gallagher T10 Reader

Gallagher T11 or T12 Reader

Maximum of 20 T Series Readers AND 25 F22 Fence Controllers per Gallagher Controller 6000

GBUS RS485

Gallagher Security Fence Keypad

Gallagher Remote Arming Terminal

Gallagher GBUS Universal Reader Interface

Gallagher High Density I/O Interface

Gallagher 8-Input Expansion Interface

Gallagher I/O Expansion Interface

4 devices maximum

8 devices maximum

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
Controller 6000	175mA	320mA	460mA
Controller 6000HS	610mA	730mA	870mA

* 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		
	Max. number of alarms zones	256	Number of events	80,000
	Max. number of access groups	2,000	Max. number of doors	10
	Max. number of time schedules	400	Max. inter-controller peer to peer connections	60
	Number of cardholders	500,000		
RS485 Device Communications (2 Ports)	HBUS	Up to 1 Mbits per second, 500m (1640ft)		
	GBUS	38.4 Kbits per second 1200m (1640ft)		
	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	
	Inductive load	1 A at 24 V DC/AC	
DC Outputs		0.5 A per output	
Elevator Control	Max. Number of shafts per Controller 6000	75 (low level) 256 (high level)*	
Gallagher Cabinets	Refer to Gallagher Cabinet datasheet		
Part Numbers	Gallagher Controller 6000	C300100	Gallagher 4R Module	C300141
	Gallagher Controller 6000 High Spec	C300101	Gallagher 4H Module	C300142
	Gallagher Cabinet	C200104	Gallagher 8R Module	C300181
	Gallagher Dual Cabinet (with power supply)	C200105	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. * Elevator system dependant

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