Gallagher
Controller 6000

Controller 6000

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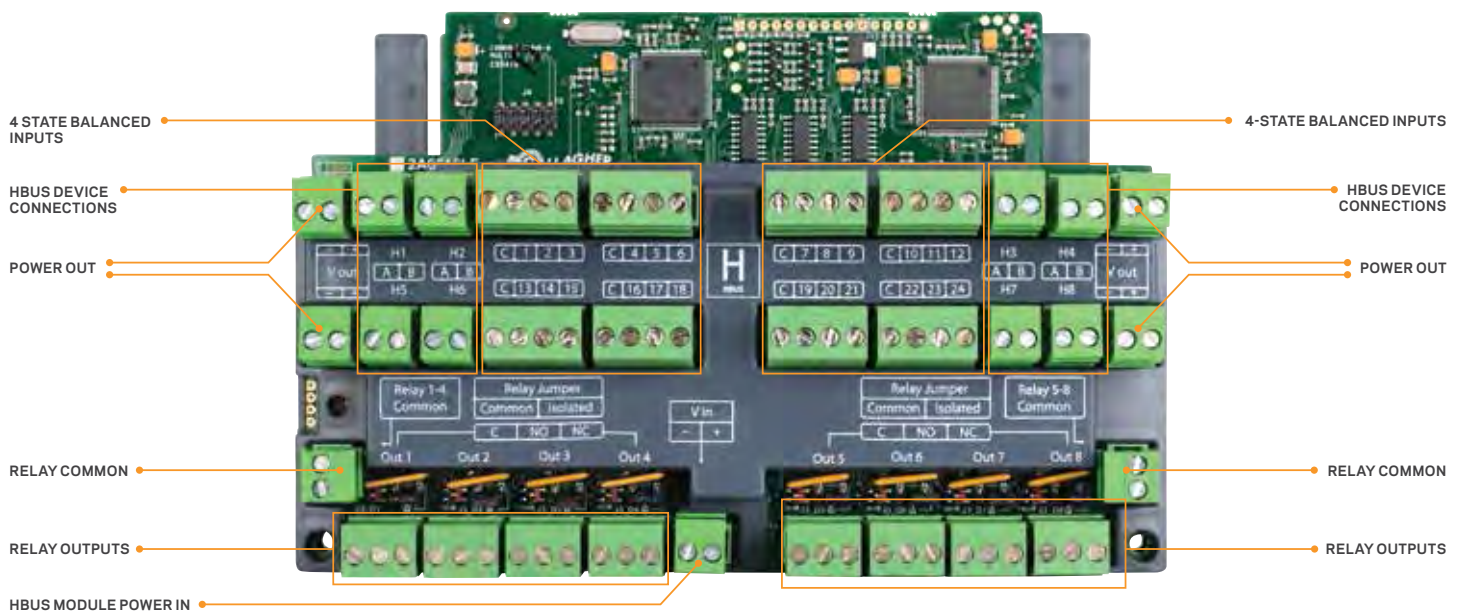
The Gallagher Controller 6000 (C6000) is the interface between the Gallagher Command Centre Server and the distributed field hardware. Capable of processing, storing and communicating data in real time when the Gallagher Command Centre Server is offline. The Controller 6000 uses straight forward system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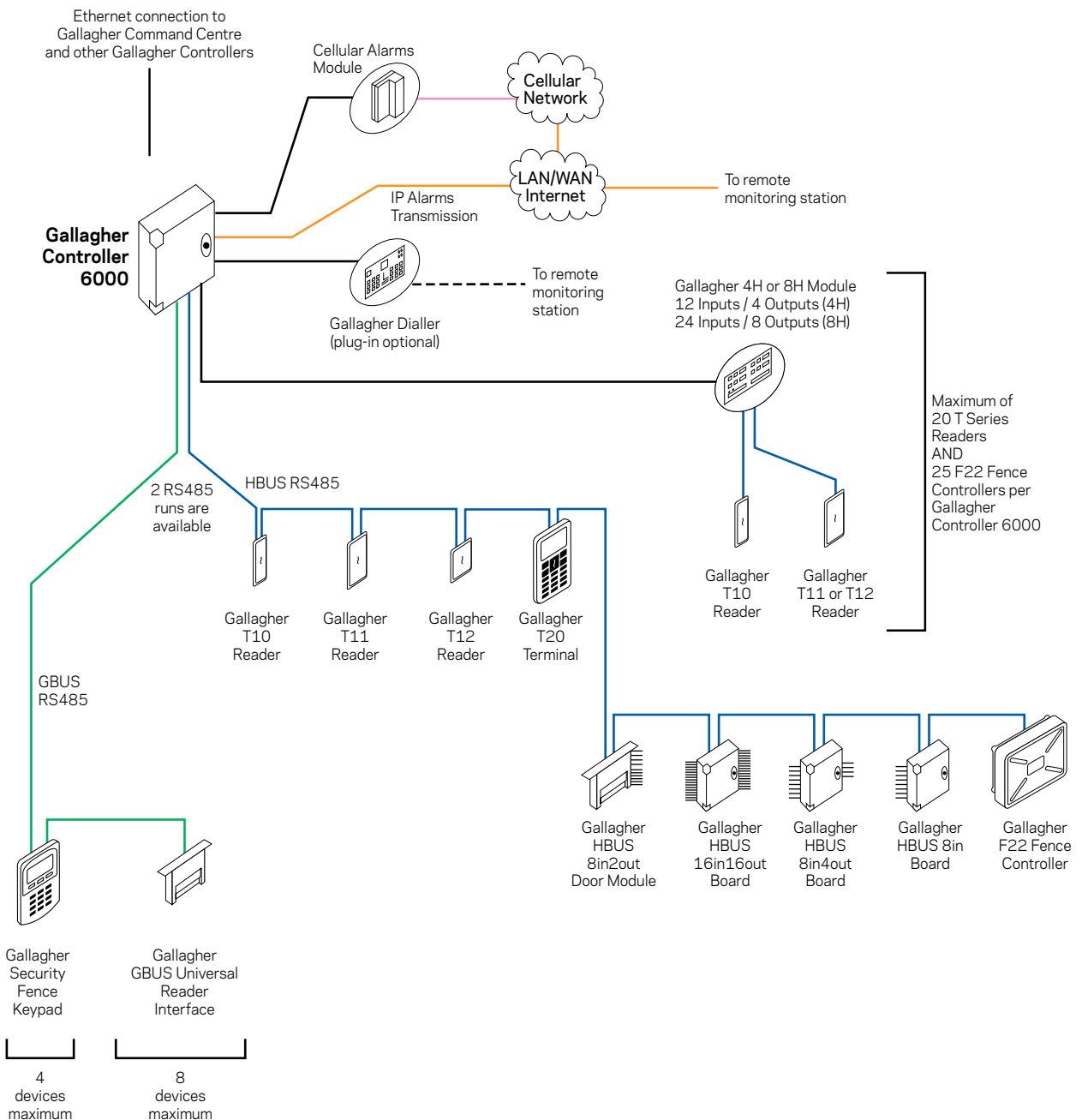
Key features:

- **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

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

To remote
monitoring
station

Gallagher Dialler
(plug-in optional)

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

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

2 RS485
runs are
available

HBUS RS485

Gallagher
T10
Reader

Gallagher
T11
Reader

Gallagher
T12
Reader

Gallagher
T20
Terminal

Gallagher
T10
Reader

Gallagher
T11 or T12
Reader

GBUS
RS485

Gallagher
HBUS
8in2out
Door Module

Gallagher
HBUS
16in16out
Board

Gallagher
HBUS
8in4out
Board

Gallagher
HBUS 8in
Board

Gallagher
F22 Fence
Controller

Gallagher
Security
Fence
Keypad

Gallagher
GBUS Universal
Reader
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	**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, Starter Kit Variant	C300110	Gallagher 4H Module	C300142		
	Gallagher Controller 6000, 2 Door Variant	C300111	Gallagher 8R Module	C300181		
	Gallagher Controller 6000 High Spec	C300101	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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