





## AxesMain: Controller / Gateway

The AxesMain can be used as a controller for up to 18 doors in the following configuration:

- Up to 4 AxesIO2 each controlling two doors (2 readers, 4 inputs and 4 relays per door)
- Up to 10 AxesIO1 each controlling a single door (1 reader, 4 analog inputs and 2 relays per door), or a single Hi-O™ door (a door using ASSA ABLOY's Hi-O™ protocol)
- · Alternatively, it can be used as a gateway between the doors/lifts and the axesplus® service platform.

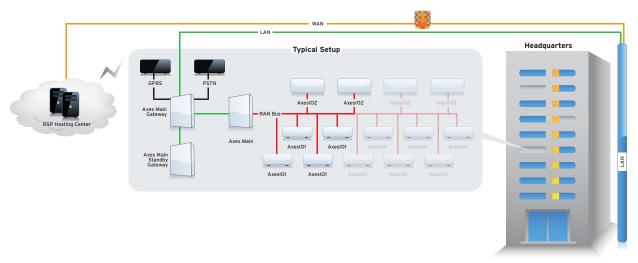
The AxesMain consists of a controller board and a power supply with its management card. The optional AxesGSM module can supplement the Ethernet connection with a GPRS connection as a primary/secondary communication interface to the axesplus® servers.

## Highlights

- Manages the information of up to 65,000 cardholder (up to 40 different access profiles) and more than 10,000 events.
- Access cards and profiles, schedules and events are stored internally.
- No single point of failure in case of a network failure the controllers remain operational and continue to save the events internally.
- Remote management and secured access to the axesplus® service platform via the Internet.
- AxesIO1 and AxesIO2 can be connected to the AxesMain via a RAN bus (distance of up to 600m).
- Management of 10 AxesMain units in gateway mode.
- Encrypted data communications (TLS and AES 128 bits).
- Accurate time keeping: real-time clock, time zone management and automatic DST clock switch. The clock can be automatically synchronised with a NTP server.







## **Specifications**

-				
Total number of active cards		> 65,000 ( for 40 access profiles)		
Total number of events		>10,000		
Authentication and encryption		TLS and AES 256-bit		
In gateway mode (Proxy): Maximum number of control units per Proxy		10		
Electrical Characteristics	AxesMain	Consumption	100mA-180mA@14.4V	
		Range of supply voltages	8-16VDC	
		USB Host Vbus	5V + -5% @ 200mA max per port	
		Dimensions	190mm x 75mm	
	AxesPMC	Consumption	45mA-65mA@14.4V	
		Range of supply voltage	11-15VDC	
		Maximum current	Total AUX1 and AUX2 max 3A	
		Battery Type	Lead-acid battery	
		Load current of the battery	Max 0.3 A	
		Maximum capacity of the battery	12V@7AH	
		Dimensions	90mm x 73mm	
	AxesGSM	Consumption	3mA@14.4V (1200mA peak in transmission)	
		Range of supply voltage	8-16VDC	
		Dimensions	76mm x 75mm	
	AxesPS	Range of supply voltage	88V - 264VAC @ 50Hz	
		Supply current	1.3A / 115 VAC	
		Output voltage	12V DC	
		Range of output current	0 - 4.2A	
Temperature range		-10 ° C to +55 ° C		
RH		Max 85% (no condensation)		
Dimensions (W x H x D)		320mm x 290mm x 136.2mm		
Weight		4.2Kg		

## **Trade References**

References	Descriptions	Composition of the kit (references available separately)					
ACXKMAINOOOA	axesplus® Controller/ Gateway	References	Description	Qty			
		ACXBOXM0000A	Medium box	1			
		ACXMAIN000A	Proxy and / or controller (max 4 I/O boards or 10 HI-O)	1			
		ACXPS000000A	3A Power Supply	1			
		ACXPMC00000A	PMC - card power management	1			
OPTIONAL							
ACXGSM00000A	GSM / GPRS module	Includes GSM antenna and connecting cables					
ACXDOORS000A	I / O board	Can control two doors					
ACXBOXS0000A	Small box	Allows mounting of an I /O board (L 270 x H 246 x D 136 mm)					
ACXI0100000A	Hi-O Card	Can control an Hi-O™ door or a single door (1 reader, 2 relays and 4 analog inputs)					



For a list of RISCO Group's global branches and distributers, please visit **riscogroup.com** 

All rights, title and interest in and to this brochure and any content, including any text or images contained herein, and to the products described hereunder, including patents, copyrights, trademarks, trade names, trade secrets and other intellectual property rights pertaining thereto, are owned by, or licensed to RISCO Group. Unless received a prior written approval from RISCO Group, you may not use, distribute, convey or modify any of the content on this brochure, including RISCO Group' products, trademarks, trade names or logos, which are subject to intellectual property or other proprietary rights. You agree to abide by all signs such as a Trademark [® or ™], accompanying the content on this brochure and to not distort them in any copy thereof.