

GLS 100

Encrypted IP DesFire 1 Door Controller



IP High Security DesFire Controller IP + Door + Lift + Car Park

- ••• DesFire Encryption
- Card ID Not by Serial Number
- Support Door, Lift and Car Park
- ••• Encrypted IP Messaging
- ••• 32-bit RISC Processor





• The controller supports the latest high security card for bringing your system to a higher level of security. Many systems in the market runs on older generation of card technology with or without encryption and can be easily cloned. The DesFire card encryption is the latest from Mifare and the encryption is hardened for up to date protection level to your premises.

Card ID Not by Serial Number

- The Card ID is created using the advanced encryption algorithms built in to the Mifare DesFire card.
 To read the Card ID, the reader needs to perform a few levels of encrypted security exchange. The Card ID obtained by this method is very safe and secured. Some systems in the market only read the Serial Number of the card, which is unprotected or open information. This is not the correct and secured way to use the Mifare DesFire feature.
- The Card ID of our system is 64 bit or 20 digits. This provides the highest security level to your system. As the security
 algorithms is very complicated, our readers use 32 bit processor to provide a much faster response time.



- The messaging between the controller and the computer is encrypted with dynamic keys using the AES128 industrial strength algorithm. This is to ensure that the controller does not subject to attack from network easily as the networking environment is very open and sometimes difficult to police.
- The messaging between the readers and the controller is also encrypted to ensure that the communication is secured.
- The card reading is done by encrypted exchanges with the implementation of advanced DesFire encryption algorithms.

Supports Door & Lift

- The controller has been built for high-end integrated security applications. It can supports door access control,
 car park access control and lift access control.
- · You can configure the capacity of the system by adding extension boards.

32-bit Processor

 The controller uses the 32-bit RISC processor at 80MHz. This is a powerful processor for industrial applications and it enables the system to process complex applications such as modern security encryption features in real-time manner.

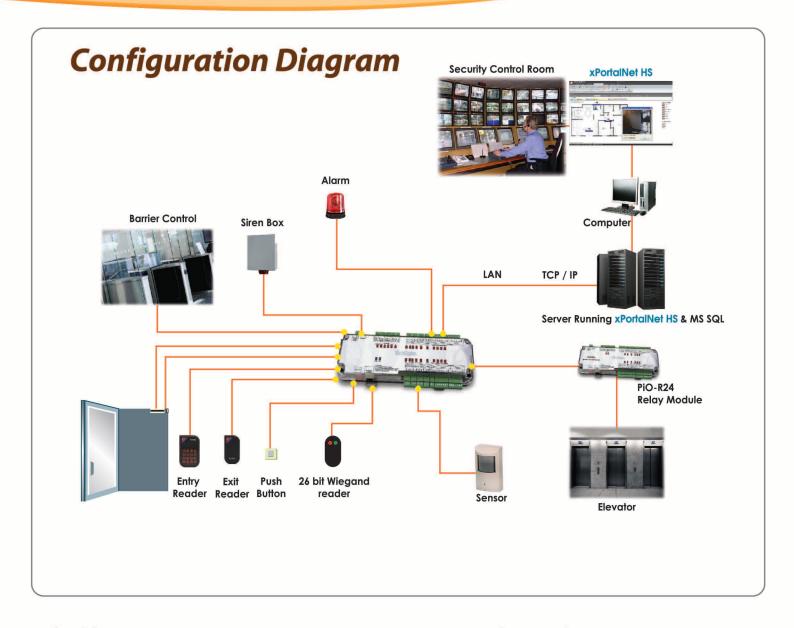
UHoused in Strong ABS Casing

- The controller is housed in a strong ABS casing. This casing is wall mount ready by using the screws to mount it directly on the wall.
- It is also DIN rail mount ready if you wish to mount it this way together with your industrial equipments.

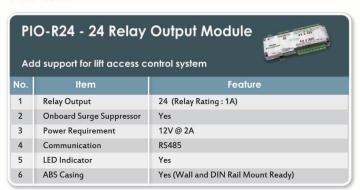
Live Remote Firmware Download

- Firmware can be downloaded live from the application software via the IP interface.
- This helps to improve the maintainability of the controller at site. You can update or upgrade the firmware from the computer at site without needing to open the controller box or bring the controller back for service.

GLS100- DesFire Access Controller



PIO-R24



Plato DesFire Readers

No.	Feature	Plato DesFire Readers Model	
		Plato-DF80S	Plato-DF80KLS
1	Card Type	Mifare DesFire / DesFire Ev1	
2	Encrypted Card ID	Yes (In Encrypted File Securedly Created in the Card)	
3	Encrypted Reading	Yes	
4	Card ID by Serial Number	1	No
5	RS485 to Controller	Yes (Encrypted)	
6	Processor	32 bit RISC for Faster Response Time	
7	Tamper Switch	Yes (High Endurance Optical Type)	
8	LED & Beeper Indicator	Yes	
9	Keypad	No	Yes
			High Sensitivity Touch Sense
10	LCD	No	Yes (Color)
11	Dimension	80mm x 43mm x 16mm	90mm x 57mm x 16mm

GLS 100 High Security DesFire Access Controller xPortalNet HS High Security Management Sosftware

GLS	GLS100 Controller				
No.	Item	Features			
1	No of Doors	1 Door			
2	No of Readers	Max 2 Readers (Plato DesFire Reader)			
3	Wiegand Reader	Max 2 Wiegand 26 bit Readers - for Low Security			
4	Connection to PC	TCP/IP -Encrypted IP with AES 128			
5	Connection to Plato Readers	RS485 (Encrypted)			
6	Card Holder	10,000 (64 bits / 20 Digits)			
7	Card ID	Secured and Encrypted with DesFire Algorithms			
8	Card Serial Number	Recorded together with the Card ID			
9	Transactions	50,000			
10	Time Setting	255 Time Sets / 255 Time Zone (No Access Level Limits)			
11	Holiday	30 (2 sets)			
12	Inputs	5 Supervised/Digital (Switchable)			
		- 1 door Sensor + 1 Exit Button			
		- 1 Dedicated Fire Alarm Input			
		- 2 Configurable as Reader Tamper, Emergency			
		Breakglass Monitor or General Purpose			
13	Extra Relay Output	1			
14	Real Time Clock	Yes - with onboard battery			
15	WAN Support	Yes - Support Dynamic IP			
16	Power Fail Monitor	Yes			
17	Global Anti-Passback	Yes - Using SNet-GAC Global Access			
		Controller (up to 128 doors per cluster)			
18	Live Firmware Upgrade	Yes - Download Live from Software			
19	Diagnostic	Yes - Using built in Web based system			
20	Onboard LED Indicators	Yes			
21	Onboard Beeper	Yes			
22	Full Functionality without	Yes - Does not depend on Computer for			
	Computer	Runtime Data Lookup			
23	Processor	Microchip PIC32 - 32bit RISC MCU at 80MHz			
24	Casing Dimension	255mm (L) x 95mm (W) x 27mm (D)			
25	DIM Rail Mount Ready	Yes			
26	Power Consumption	12VDC at 400mA (Controller Board only)			

No.	ltem	Features
1	Client Server	Yes - Up to 20 Clients
2	System	Door Access / Lift Access / Car Park / Alarm
		Monitoring / Guard Tour / Visitor Management /
		CCTV Integration / Time Attendance
3	Card Holder	200,000 (20 Digits)
4	Card Serial Number Record	Yes. The system records the card serial number
		together with the Card ID
5	DesFire Card Programming	Yes. By using MCI-DF-PGM USB desktop
		programming kit
6	Configurable DesFire	Yes. User can configuble their own security setting.
	Security Setting	The setting data are encrypted in the computer.
7	DesFire Card	Mifare DesFire, Mifare DesFire Ev1
8	Low Security Card Support	Yes., for 3rd party system. Connect through the
		GLS100/GLS300 Wiegand port.
9	No. of Door / Readers	1024 Doors / 2048 Readers
10	No. of Inputs / Outputs	1024 Inputs / 1024 Outputs
11	Time Set / Time Zone	1024
12	System Users	Unlimited
13	Software Access Control	Yes - User Configurable Command Level Access
		Control
14	Floor Plan System	Yes - Dynamic & with Camera Icon
15	Database Supported	MS SQL Server / Oracle
16	OS	Client: Windows 7 Professional (32/64 bits)
		Server: Windows Server 2008 / 2012 (64 bits)
17	Communication Supported	UDP / TCP / HTTP
18	Controller Supported	• GLS100
		IP DesFire Single Door Controller (10,000 Users)
		- Add Lift Access with PiO-R24
		• GLS300
		IP DesFire Single Door Controller (100,000 Users)
		- Add Lift Access with PiO-R24
		- Add Alarm Monitoring with PiO-S248 & PiO-L32
19	Model	xPortalNet HS Lite, xPortalNet HS Standard



External IO Support



PiO-R24 for Lift Access



Ordering Information

No.	Item	Features
1	XP-GLS100	DesFire Access Controller (10,000 Card Holder)
2	XP-GLS300	DesFire Access Controller (100,000 Card Holder)
3	PiO-R24	24 Relay Output Module
4	Plato-DF80S	DesFire Card Reader
5	Plato-DF80KLS	DesFire Card Reader with Touch Sense Keypad and
		Colour LCD
6	MPC-D10Ev1	Mifare DesFire Card Ev1
7	MCI-DF-PGM	Mifare DesFire Desktop Programming Unit
8	MPS-320	Power Supply Unit with Charger and Low Power
		Cutoff
9	MAS-600EMS	MicroEngine EM Lock 6001bs
10	MAS-1200EMS	MicroEngine EM Lock 12001bs
11	MAS-PB33	Microlingine Wide Exit Button
12	MAS-MC	MicroEngine Door Sensor
13	MCI-XPNETHS/Lite	xPortalNet HS Lite Security Management Software-
		Multi-Client & Based on .Net Technology
14	MCI-XPWEBHS	xPortalWEB HS Web Based Security Management
		Software - Web Based & Full Web Based Interface
		for System Management
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For enquiries, please contact:

Configuring the System

The system is powerful and highly configurable, kindly contact our representatives to assist you to configure a system that suits your requirements.