

# xPortalNet HS v2.0

## Integrated Security Management System

### Mifare DesFire High Security Management System - 20 Digits (Full 64-Bit)

**Access Control** >> Door Access • Lift Access • Car Park Access • Visitor Management

**Alarm Monitoring** >> Supervised Input • Relay Output • IO Programming

**Car Park Management** >> Vehicle Count Control • Car Park Management System

**Time Attendance** >> Dedicated Unit for Attendance Recording • CCTV Integration

**Web Based Visitor Management** >> Pre-registration • Front Desk Validation

**Connectivity** >> IP LAN • PoE • SMS • WAN



Common Criteria  
Certified



# xPortalNet HS v2.0

## High Security Integrated Security Management System (ISMS) Software

### 20 Digits (Full Mifare DesFire 64-bit CSN & Card ID)

- Higher Security by recording both Mifare DesFire Card Serial Number (CSN) and the Card ID (CID), with 20 digits each. This captures the FULL 64-bit number. The system will track the CID with the CSN to ensure that the card matches the full record. Identification is not just by CSN.

### Mifare DesFire Security Profile Configuration

- Full support of Mifare DesFire Security Profile Configuration in the software. This allows the user to have maximum control of the security key setting and change it whenever they want to. Programming of the cards can be done through the desktop card programming unit.

### Alarm Monitoring & Lift Controller

- Supports up to 512 inputs / 256 outputs / 256 LED Mimic outputs with event programming. User notification can be achieved through client applications,
- Control of up to 96 floors per lift. Support multiple lobby implementation for large scale projects.



### CCTV Integration

- Tightly integrated to branded line of DVRs for viewing and capturing purposes. DVRs and CCTVs will be shown on the floor plan to ease identification and management.

### Visitor Management System (VMS)

- Integrated VMS module to enable tracking, control and recording of visitors.
- Web-based Pre-registration to ensure simple and faster visitor check in process.

### Floor Plan

- Comprehensive floor plan control to enable easy viewing and control statuses of devices.

### Time Attendance

- Comprehensive configurations to allow the maximum flexibility in shift and allowance settings. Supports multiple and overnight shifts. Allow for further customisations to suit customer's requirements.



### Web Server Support

- IIS8.5 with ASP.NET allows user to login using the web browser from any part of the world.

### High Level Lift (HLI) Integration

- High level lift integration with many brands of lift/elevator to bring users to a new level of User Experience (UX) with seamless integration between security and the lift system.



Common Criteria  
Certified

## Cyber Security Threats Protection Tested with Common Criteria (CC) Certificate

- As new security threats such as hacking and network sniffing is becoming more common, high level of cyber security risks protection is required. xPortalNet HS v2.0 is tested and certified with Common Criteria Level 2, the international standard for cyber security threats protection certification.

## Multiple Workstation

- Supports for fingerprint based login on top of user ID and password for higher level security.

## Configurable Security Mode

- Allows settings to be made on a card-to-card basis for maximum flexibility. Security mode can be any combination of card, pin and fingerprint validation. Also supports dual validation mode for added security.

## Configurable Remoting Port

- Configurable Port Number settings to adapt to site firewall configurations.

## Software User Level Control

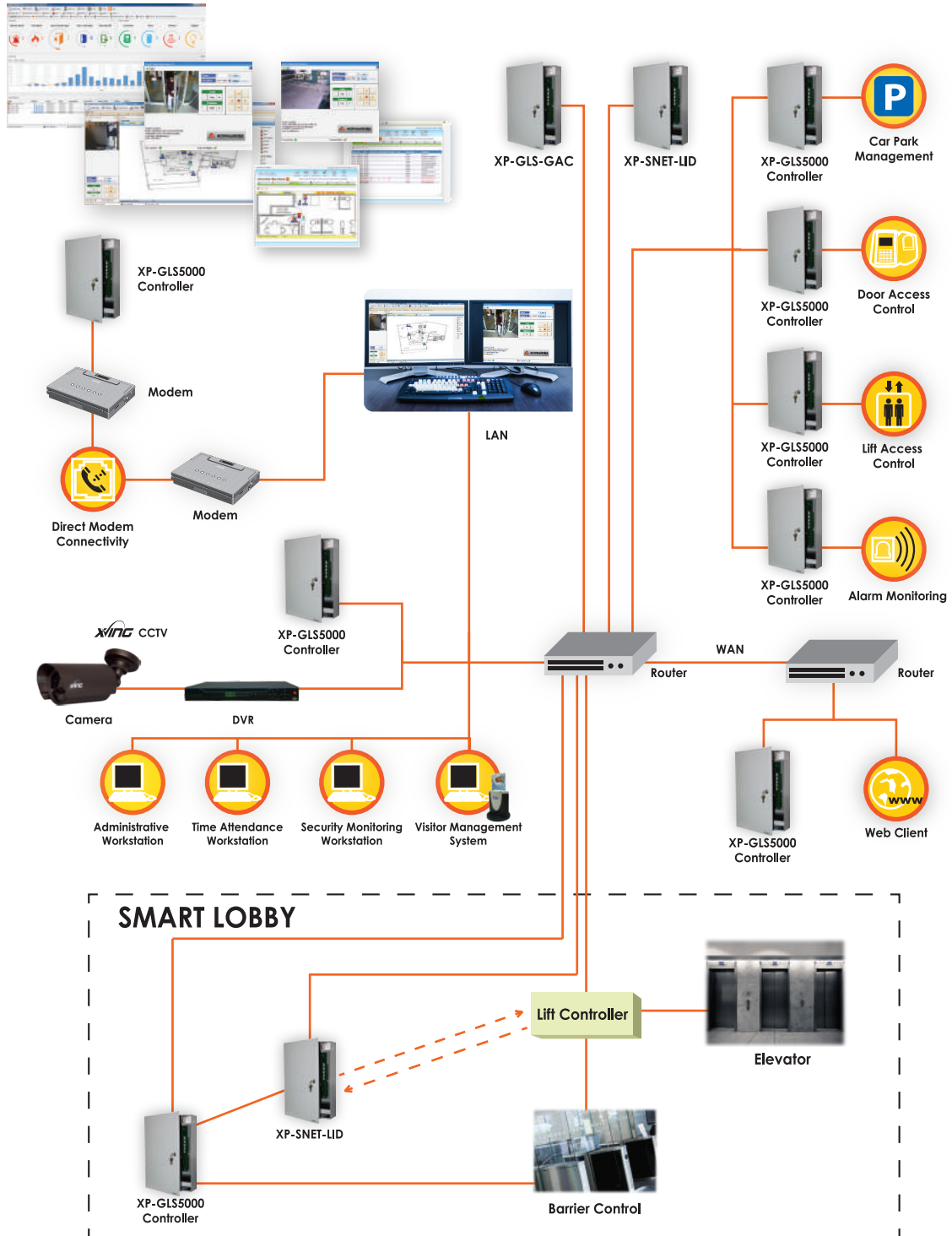
- Each user can be assigned with a particular software access level to ease the management of user access rights. Access level can be configured in terms of menu access as well as actions allowed.

## Better System User Control

- Built in features including password expiry checking, wrong password lockout and temporary suspension for better user control.



# Configuration Diagram



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No.	Feature	Function		
		xPortalNet HS v2.0 Lite	xPortalNet HS v2.0 Standard	xPortalNet HS v2.0 PS
1	CCTV Integration - Panasonic (live preview, event trigger, live recording, screenshot, searching, playback, device's status monitoring, CCTV alarm integration, PTZ Control, pre and post event playback, PTZ preset activation by event / manual) - Hikvision (live preview, event trigger) - Dahua	No	No	Yes
2	Data Partitioning (configurable door / staff that can be viewed and managed, hiding unauthorised data for selection and control)	No	Yes	Yes
3	API	No	No	Yes - Optional Add on
4	No. Of Concurrent Client Access	3	3	3
5	Max. No. Of Concurrent Client Access (Optional)	-	10	20
6	Visitor Management	No	Yes	Yes
7	Badging	Optional Add on		
8	Guard Tour	Yes		
9	Remote Communication Gateway	Optional Add on - Required if need more than 200 connections created at the server. Each Remote Communication Gateway support up to 100 connections.		
10	Multi-Tiered / Multi-Threaded Design	Yes		
11	Database	MS SQL Server (Note: Limited database & memory size if using MS SQL Server Express and system may not function well for larger installation)		
12	Access Control	Yes		
13	Car Park Access	Yes		
14	Lift Access	Yes		
15	Alarm Monitoring	Yes		
16	Door Monitoring	Yes		
17	Time Attendance	Yes		
18	High Level Lift Interfacing	No	No	Optional Add On
19	Card User Capacity	100,000	100,000	200,000
20	Controller Supported	XP-GLS5000, XP-GLS130v4, XP-GLS230, XP-GLS300v4, XP-GLSGAC		
21	Connectivity	LAN		
22	Data Change Audit Trail	Yes		
23	Data Download Activity Logging	Yes		
24	Software User Command Control	Yes		
25	Interactive Floor Plan with Auto-Switching	Yes		
26	Fixed Shift Attendance System	Yes		
27	Who's Still In Reporting Configurable by Door Group	Yes		
28	Door Access Level	255		
29	Time Zone	255		
30	Time Set (3 Intervals)	255		
31	Holiday	30		
32	Floor Zone	255		
33	Floor Access	255		
34	Live Firmware Download	Yes		
35	Spot Monitor Support	No	3	3
36	System User Password (Min. 8 Characters, Expiry Date Control)	Yes		
37	Global Antipassback	Yes - Using XP-GLSGAC		
38	Server runs as Windows Service	Yes		
39	Fire Alarm Door Release by Door Group	No	No	Yes
40	Double Card Number Configuration	Yes. <b>HIGHER SECURITY</b> by recording both Card Serial Number (CSN) and Card ID by Application (CID)		
41	Card Number Length	20 digits. <b>HIGHER SECURITY</b> with card number length of BOTH CSN and CID up to 20 digits, capturing the full 64-bit.		
42	Email and SMS Notification	Yes		
43	Configurable Transaction Export (Real Time or Manual)	Yes		
44	Selective Download to Speed up Download Time	Yes		
45	Push Based Event Upload	Yes		
46	Bulk Download	Yes		
47	Encrypted IP Messaging	Yes		
48	Device Discovery / Diagnostic	Yes		
49	System Info Summary	Yes		
50	Common Criteria Certified	Yes		

The feature listed here are for the software only. It depends on the choice of the hardware system such as controller, I/O board, readers and computer system for it to work. Kindly contact our representatives for further clarifications.





# XP-GLS5000 - Encrypted IP Based Multi-Door DesFire Security Controller

## Mifare DesFire 64-bit Card ID and Card Serial Number

- The system supports the high end DesFire Card System with advanced messaging security with 64-bit (20 digits) Card Serial Number (CSN) and Card ID (CID). It supports the configuration of DesFire security profile. The identification is Not By CSN Only. It matches both CID and CSN of up to 20 digits in length each. This gives a much reliable and secured identification result.

## Centralised Connection

- The cables are terminated in the controller. This allows faster data processing as transfer of data are all done onboard and the readers are directly connected to the controller.
- Centralised connection also promotes better deployment and maintenance quality. The engineers can perform the inspection and service all at one place and this can help to reduce the cost of maintenance operations.

## Configurable to Distributed Architecture

- Where remote interfacing of door / reader or I/O are required, the controller supports these remote interfacing modules (RIM) that connect to the controller using RS485.
- This is a flexible and powerful controller capability that gives you the benefit of both useful centralised and distributed architecture in one box.

## 32-bit ARM Processor

- The controller uses the 32-bit ARM RISC dual-core processor at 72MHz. This is a powerful processor for industrial applications and it enables the system to process the complex applications in real-time manner.

## Supports Door, Lift, Alarm Monitoring

- The controller has been built for high end integrated security applications. It can support door access control, car park access control, lift access control and alarm monitoring.
- You can configure the capacity of the system by adding extension boards or remote interfacing modules.

## Onboard IP with Encryption

- The controller is equipped with LAN connectivity at 10/100 Base-T using TCP/IP protocol.
- It supports push based communication to computer for faster data transfer speed.
- The IP communication is encrypted using industrial standard AES128 for secured communication.

## 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.

# XP-GLS5000 Controller

## XP-GLS5000 Features

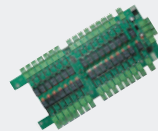
XP-GLS5000 Controller		
No.	Item	Feature
1	Max Door	5
2	Relay Output	8 (5 for Door Relay + 3 General Purpose) Relay Rating : 1A
3	Sensor Input	16 Supervised (As Door Status or General Purpose)
4	IP	Yes - LAN 100 Base-T
5	Reader	<ul style="list-style-type: none"> <li>• MicroEngine <b>Plato</b> Readers : Max 10 (5 Entry + 5 Exit)</li> <li>• Wiegand / ABA Readers : Max 5</li> </ul>
6	Communication Port	Yes • RS485 to Extension Boards with Output Mirroring
7	DesFire Security Profile	Configurable using xPortalNet HS v1.8 Software
8	Card ID & Card CSN	Yes. Record both at upto 20 digits (FULL 64-bit).
9	Max Card DB	25,000 / 50,000 / 100,000 *
10	Max Transaction DB	100,000 / 100,000 / 200,000 *
11	Time Zone	255
12	Time Set	255
13	Multi Access Group	Yes (5 Access Group per Card Holder)
14	Floor Zone	255
15	Global Anti-Passback	Yes
16	Interlocking	Yes
17	Access Mode	<ol style="list-style-type: none"> <li>1. Card + Pin</li> <li>2. Card Only</li> <li>3. Pin Only</li> <li>4. Facility Code</li> <li>5. Fingerprint Only</li> <li>6. Card + Fingerprint</li> <li>7. Pin + Fingerprint</li> <li>8. Automatic Lock Release</li> <li>9. Inhibit Access</li> </ol>
18	IP Messaging Encryption	Yes - AES128
19	Alarm Monitoring Support	Yes
20	Extension	Up to 3 Extension Boards : XP-SNET-E32R : 32 Relay Output Board XP-SNET-E248S : 24 Supervised Input & 8 Relay Output Board <u>Max Extension Capacity :</u> 5 Doors / 128 Inputs / 128 Outputs
21	Processor	<b>ARM</b> RISC Dual-Core Processor at 72MHz
23	Power Requirement	12V @ 500mA (Base Board Only)
24	Onboard LED / Buzzer	Yes
25	Remote Firmware Update	Yes - can be done through application software at site.
26	Controller Package PSU	12VDC @ 10A with 12AH Battery

## XP-GLSGAC GLS Global Antipassback Controller

Add support Global Antipassback by cluster

No.	Item	Feature
1	Connectivity to Controller	TCP/IP (Max 128 doors per cluster)
2	Real Time Location Update	Yes. GAC as centralized look up device with immediate location info update. Readers at other doors immediately obtained the latest location info of the card user. No waiting time required for data synchronization between controller.
3	Power Requirement	12V @ 2A

## I/O Extension Board



**XP-SNET-E32R**  
32 Relay Output  
Extension Board



**XP-SNET-E248S**  
24 Supervised Input  
& 8 Relay Output  
Extension Board

\* Depending on Model



## Plato Readers



Slim Card Reader

Model	Description
Plato-RM80MS	Mifare Classis / DesFire Reader
<b>Dimension</b>	90mm (H) x 57mm (W) x 16mm (D)



Slim Card Reader with Touch Sense Keypad & Colour Graphic LCD

Model	Description
Plato-RM80KLS	Mifare Classis / DesFire Reader with Keypad & LCD
<b>Dimension</b>	90mm (H) x 57mm (W) x 16mm (D)

## Encrypted IP DesFire Controllers



**XP-GLS130**  
DesFire IP  
1 Door Controller



**XP-GLS300**  
DesFire IP Controller  
100,000 Card Users



**XP-GLS5000**  
DesFire IP  
5 Door Controller

## Computer Requirements

### Server

No.	System	Requirement
1	CPU (Minimum)	Xeon E5506 2.13Ghz
2	RAM (Minimum)	16GB
3	OS	Microsoft Windows Server 2016 or Compatible
4	Microsoft.Net Framework v2.0	Yes
5	Microsoft SQL Server 2014	Yes - At least Standard Edition
6	Ethernet	Yes
7	Serial Port	Yes
8	Display (1280 x 720 x 16 bit colours)	Yes
9	Mouse/Keyboard	Yes
10	UPS (Recommended)	Yes
11	Hard Disk (Minimum Free Space)	500 GB
12	USB Port	Required for Software Key

### PC Client

No.	System	Requirement
1	CPU (Recommended)	Intel Core i7-5220U, 2.2 GHz or Higher
2	RAM (Minimum)	8GB
3	OS	Microsoft 64-bit Win 8 Pro / Win10 Pro / Windows Server 2016 or Compatible
4	Microsoft.Net Framework v2.0	Yes
5	Ethernet	Yes
6	USB Port / Serial Port	Optional (Required for USB desktop reader)
7	Display (1280 x 720 x 16 bit colours)	Yes
8	Mouse / Keyboard	Yes
9	Hard Disk (Free Space)	50 GB

For enquiries, please contact:

Specifications subject to change without prior notice.

## Ordering Information

No.	Product Code	Requirement
1	XP-GLS5000	Encrypted IP DesFire 5 Door Controller (100,000 Card Users)
2	XP-SNET-E32R	32 Relay Output Extension Board
3	XP-SNET-E248S	24 Supervised Input / 8 Relay Output Extension Board
4	XP-GLS130 v4	Encrypted IP DesFire 1 Door Controller (30,000 Card Users)
5	XP-GLS230 v4	Encrypted IP DesFire 2 Door Controller (30,000 Card Users)
6	XP-GLS300 v4	Encrypted IP DesFire 1 Door Controller (100,000 Card Users)
7	XP-GLSGAC	Global Antipassback DesFire Controller
8	Plato-RM80MS	Mifare Classis / DesFire Card Reader
9	Plato-RM80KLS	Mifare Classis / DesFire Reader with Colour LCD & Touch Sense Keypad
10	Plato-RM800KLS	Large Size Mifare Classis / DesFire Card Reader with Graphic LCD & Touch Sense Keypad
11	Plato-RM800KLP	IP65 Fingerprint & Mifare Classis / DesFire Card PS21 / SSID Reader with Graphic LCD & Touch Sense Keypad
12	Plato-RM800KLP-KLS-WP	IP65 Mifare Classis / DesFire Card / PS21 / SSID Reader with Graphic LCD & Touch Sense Keypad
13	Plato-RM800MS	Large Size Mifare Classis / DesFire Card / PS21 / SSID Reader
14	HID-OMNIKEY 5421	Mifare DesFire Desktop Programming Unit
15	USB-XPNET HS v1.8/Lite	xPortalNet HS v2.0 Lite Software c/w 1 Software License - 3 Client, Up to 200 connections
16	USB-XPNET HS v1.8/STD	xPortalNet HS v2.0 Standard Software Licence - 3 Client & Up to 200 connections - VMS & Data Partitioning
17	USB-XPNET HS v1.8/PS	xPortalNet HS v2.0 PS Integration Software Licence - 3 Client & Up to 200 connections - VMS & Data partitioning & API & CCTV Integration

## 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.

