XPNETV20 - xPortalNet HS v2.0
Security Management System

- ▶ **Door Access**
- ▶ **Lift Access**
- ▶ **Car Park Access**
- ▶ **Time Attendance**
- ▶ **Alarm Monitoring**
- ▶ **Guard Tour**
- ▶ **Visitor Management**
- ▶ **CCTV**
- ▶ **QR Code Support**

Product Description

xPortalNet HS v2.0 is an enterprise-level access control and surveillance platform that offers advanced security features such as MicroEngine's encrypted QR code technology and full-featured Desfire solution with dual ID matching. It also supports multiple access token types, including facial recognition, and provides a user-friendly interface for easy setup, management, and monitoring. The platform is scalable, offers optional add-on modules, and can integrate with third-party systems to provide a comprehensive security solution for different business needs.

Product Features

■ MicroEngine Encrypted QR Code
There are two types of MicroEngine QR code: Dynamic and Static. Dynamic QR code changes every 3 seconds and can be generated through the ME Mobile Access apps, whereas the Static QR code remains the same. Both types of QR codes comply with EMVCo - ISO 18004, which is the international standard for QR codes used in financial transactions. Users can control their own encryption key for both the Dynamic and Static QR codes.

■ Seamless Integration with Third-Party QR Codes
MicroEngine offers a Corporate QR module that enables integration with third-party QR code systems, acting as a middleware between MicroEngine controllers and the third-party system. The Corporate QR module is fully customisable, allowing it to adapt to different QR code formats and authentication requirements as needed.

■ High Availability with Redundancy Module
The redundancy feature is designed to minimize system downtime and ensure high availability in the event of a failure. The hot standby system is continuously synchronised with the active node and can take over within seconds of the failure, providing uninterrupted access control and security management.

■ Efficient Alarm Handling
Provides efficient alarm management with priority levels, response instructions, and audible and visual indicators. The system displays real-time video and relevant floor plans for quick situation assessment and can send mobile or email alerts to security personnel for prompt response.

■ CloudVMS Module
CloudVMS is an add-on module that streamlines visitor registration and offers both single and two-factor authentication options. It allows tenants to pre-register visitors, eliminating the need for them to register at the reception counter. Visitors can gain access to the building using the QR code received from the system, providing a convenient and secure method of building access.

■ Microsoft SQL Server as DBMS
xPortalNet HS v2.0 software utilizes Microsoft SQL Server as its database management system (DBMS), providing numerous advantages, including excellent scalability, high performance, robust security features, and seamless integration with other Microsoft tools and technologies. With the ability to encrypt the database and communication at all stages using industry standard, users can be assured that their data is protected from unauthorised access.
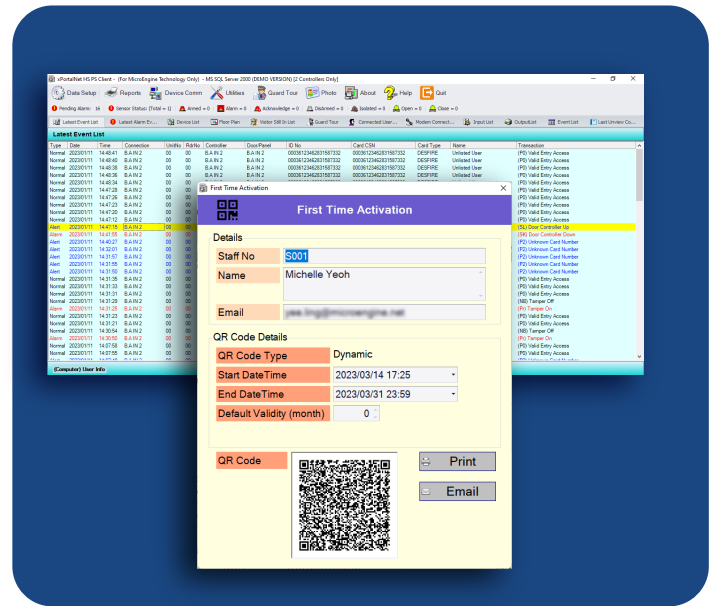
Data Sheet | Software

■ **Flexible Interfacing Tools**

Offers flexible interfacing tools such as REST APIs, OPC Data Access, Modbus, TCP push transaction, and auto export transaction to seamlessly integrate with third-party systems such as community apps, human resource, time attendance, and building management systems. These tools provide users with the ability to extend the software's functionality and customise it to meet their specific business needs.

■ **Built-in Multi-Tenancy Module**

In a multi-tenant environment, the software guarantees data segregation and security by restricting users to only manage and generate reports for their respective partitions. The system empowers partitioned users to manage and configure their own access control settings, without the involvement of system administrators, providing a self-sufficient and streamlined approach to access control management.

Product Specification

No.	Features	xPortalNet HS v2.0 PS
1	Controller Supported	XP-Q1200/IP, XP-Q2200/IP, XP-QNET/IPC, XP-QNET-GAC/IPC, SNET-LID
2	Connectivity	LAN
3	Max. Connections (Built-In)	200 (Requires Remote Communication Gateway for additional connections)
4	Remote Communication Gateway	Optional, each instance adds another 128 connections.
5	No. of Concurrent Client Access	3
6	Max. No of Concurrent Client Access (Optional)	20
7	Database	MS SQL Server (Note: Limited database & memory size if using MS SQL Server Express edition and system may not function well for larger installation)
8	Configurable Card Number	6 to 20 digits
9	Card User Capacity	200,000
10	Import Card Holder Records	Support .txt, .csv, .xls, .xlsx. Import options include add, update, and delete
11	Server runs as Windows Service	Yes
12	Redundancy	Yes (Optional)
13	API	Yes (Optional)
14	CCTV Integration	Yes
		Window live preview, event trigger pop-up (up to 4 cameras), live recording, screenshot, PTZ control, searching, playback, pre and post event playback, PTZ preset activation by event.
		Brand: Panasonic, Hikvision, Dahua, Uniview, Bosch VMS, Hanwha, Milestone XProtect, exacq Vision, Generic RTSP.
15	Multi-Tenancy	Yes
		Data Partitioning (Configurable door/ CCTV/ Staff/ Tenant/ Floor plan that can be viewed and managed, hiding unauthorised data for selection and control)
16	Access Control	Yes
17	Lift Access	Yes
18	Hardware-Based Alarm Monitoring	Yes
19	Door Monitoring	Yes

No.	Features	xPortalNet HS v2.0 PS
20	Time Attendance	Yes
21	Online Guard Tour	Yes
22	Door Access Level	255 / 9999*
23	Time Zone	255
24	Time Set (3 intervals)	255
25	Holiday	30
26	Floor Zone	255, by controller
27	Floor Access	255
28	High Level Lift Interfacing	Yes - Using SGate
29	Global Antipassback	Yes - Using QNET-GAC
30	Fire Alarm Release by Group (Door, Output)	Yes
31	Device Discovery	Yes
32	Live Firmware Download	Yes
33	Device Diagnostic	Yes
34	Encrypted Messaging	Yes
35	Push Based Event Upload	Yes
36	Bulk Download	Yes
37	Selective Download To Speed Up Download Time	Yes
38	Data Download Activity Logging	Yes
39	System Info Summary	Yes
40	Audit Trail (Data Changes Tracking)	Yes
41	Configurable Transaction Export (Real Time or Manual)	Yes
42	Transaction Subscription (TCP Push)	Yes
43	Email and SMS Notification	Yes
44	Action Procedures	Yes (Run an Executable, Send Output Command, Purge Visitor Record, Auto Sign Out Expired Visits)
45	Event Triggering (Configurable Trigger Condition and Output Action)	Yes
46	Schedule Tasks (Configurable Schedule Pattern and Action Procedure)	Yes
47	Event Filter By Monitoring Station	Yes
48	Real-Time Occupancy Reporting by Door Group for Roll Call and Emergency Evacuation	Yes (Who's Still In/ Out Report)
49	Software Based Alarm Monitoring	Yes (Configurable Alarm Definition, Latest Alarm Event List, Real-time Status Statistics, Audio & Visual Notification)
50	Configurable Alarm Definition	Alarm Description, Selectable Event Type & Device, Priority, Icon, Audio Notification, Instruction/ Guidance, Default Floor Plan, SMS/ Email Notification
51	Latest Alarm Event List	Sorted by Priority/ Date Time, Jump to Floor Plan, Show Instruction, Show Card Holder Info, Acknowledge Alarm
52	Interactive Floor Plan with Auto Switching	Automating Floor Plan Navigation upon Alarm Trigger

No.	Features	xPortalNet HS v2.0 PS
53	Visual Alert for Alarm Events	Easy Device's Location Identification with Flashing Floor Plan and Icon, CCTV Pop-Up up to 4 Channels
54	Dashboard	Yes
55	Intuitive Floor Plan Navigation	Use Map Links to Switch Between Detailed and Overview, Zoom In Or Out with Mouse Movement, Allow for Multiple Maps to be Displayed on One Screen, Resizable for Maximum Screen Use, Zoomable by Clicking on a Selected Map
56	Visitor Management (Sign-in, Sign-out, Blacklist)	Yes
57	Document Reader Integration (MyKad, Passport)	Yes
58	Various Access Token Option for Visitor	Yes Pre-create visitor badge (MIFARE, DESFire, QR Code) or Facial
59	Assignable List of Access Permissions For Visitors (Doors, Floors)	Yes
60	Auto Assignment of Door & Floor Access Level by Tenant	Yes
61	Auto Sign-Out Visitor Upon Visitor Exit at Designated Reader	Yes
62	Visitor Movement Tracking	Yes
63	Searchable Visit History	Yes
64	Facial Recognition (Auto enrolment of staff, visitor, blacklisted)	Yes (Optional) Brand: SenseTime, Hikvision, Dahua, Uniview
65	Facial Recognition Event Reporting	Yes (Facial Screening List, Online Photo, Identification of Stranger/ Blacklisted, Export Report)
66	Integration with Suprema Controller (Used as Reader)	Yes
67	Wizard	Floor Relay Setup, Floor Zone Setup
68	System User (Min. 8 characters, Expiry Date Control, Menu Access, Visible Modules)	Yes
69	Full DESFire Card Profile Configuration	Yes
70	Read/ Write DESFire Card	Yes
71	Read/ Write MIFARE Card	Yes
72	Purge Dormant Staff Records	Yes
73	BMS High Level Interface	Yes (Optional) (OPC DA, Modbus)

Data Sheet | Software

Computer Requirements

Server

No.	System	Requirement	
		Minimum	Recommended
1	CPU	Intel® Core™ i7-12700	Intel® Xeon Silver 4208
2	RAM	16GB	16GB
3	OS	Microsoft Windows Server 2019, 2022 (64-bit, recommended Standard edition)	
4	Ethernet	Yes	
5	UPS (Recommended)	Yes	
6	Hard disk (Minimum free space)	300GB	500GB
7	USB Port	Required for Software Key	
8	Microsoft .Net Framework	v4.5	
9	Microsoft SQL Server	MS SQL Server 2019, 2022 (recommended Standard edition)	

Client

No.	System	Requirement
1	CPU	10th Generation Intel® Core™ i5 Processor or above
2	RAM	8GB
3	OS	Microsoft Windows 10, 11 (Home & Starter Editions Not Supported) Microsoft Windows Server 2019, 2022 (64-bit, recommended Standard edition)
4	Ethernet	Yes
5	Hard disk (Minimum free space)	50GB
6	Microsoft .Net Framework	v4.0
7	USB Port	Optional (required for USB smart card reader, webcam, QR code scanner)

**NOTES :- Computer requirements depend on project size, complexity, and computational needs. Contact us for more information.

Related Product

- ▶ XP-Q1200/IP
- ▶ XP-Q2200/IP
- ▶ XP-QNET
- ▶ XP-QNET/IPC
- ▶ XP-QNET-GAC/IPC
- ▶ XP-QNET-GAC
- ▶ PLATO-Q82
- ▶ PLATO-M82
- ▶ PLATO-K82

Ordering Information

USB-XPORTALNETPSV20
xPortalNet HS v2.0 PS edition, USB software license dongle.

QR-BADGES
MicroEngine Mobile Badges (Dynamic QR Code), MOQ 100

USB-XPNETPSV20/API
Add-On API module for xPortalNet HS v2.0 PS software.

USB-XPNETPSV20/HLI
Add-On High Level Lift Interfacing module for xPortalNet HS v2.0 PS software.

USB-XPNETPSV20/CCTV
Add-On CCTV module for xPortalNet HS v2.0 PS software.

USB-XPNETPSV20/OPC
Add-On OPC module for xPortalNet HS v2.0 PS software.

USB-XPNETPSV20/Suprema
Add-On Suprema Interfacing module for xPortalNet HS v2.0 PS software.

USB-XPNETSTDV20/CAL-1
Additional 1 No. of Client for xPortalNet HS v2.0 Standard edition.

USB-XPNETSTDV20/CAL-3
Additional 3 No. of Client for xPortalNet HS v2.0 Standard edition.

USB-XPNETPSV20/CAL-1
Additional 1 No. of Client for xPortalNet HS v2.0 PS edition.

USB-XPNETPSV20/CAL-3
Additional 3 No. of Client for xPortalNet HS v2.0 PS edition.

USB-XPNETPSV20/CAL-5
Additional 5 No. of Client for xPortalNet HS v2.0 PS edition.

USB-XPNETSTDV20/1PA
Add-on 1 Polling Agent for xPortalNet HS v2.0 Standard edition.

USB-XPNETPSV20/1PA
Add-on 1 Polling Agent for xPortalNet HS v2.0 PS edition.

XP-Q1200/IP
1 Door Advanced Multi-Class MIFARE - DESFire & QR (Dynamic) Network Controller. High Security Dual ID Matching. Max.2 RS485 In & Out Readers/ 2 Weigand Reader Connection. Relay Outputs & 6 Inputs. 20,000 Users, 50,000 Event. Encrypted TCP/IP. Power Supply & Back Up Battery with Metal Enclosure.

XP-Q2200/IP
2 Door Advanced Multi-Class MIFARE - DESFire & QR (Dynamic) Network Controller. High Security Dual ID Matching. Max 4 RS485, 2 In & 2 Out Readers / 2 Weigand Reader Connection. 4 Relay Outputs & 11 Inputs. 20,000 Users, 50,000 Event. Encrypted TCP/IP. Power Supply & Back Up Battery. Metal Enclosure.

XP-QNET
5 Door Multi-Function IP DESFire QR Network Controller. HENGFU Switching Power Supply Battery Charger. Back Up Battery. Metal Enclosure. Support Door Access, Lift Access & Alarm Monitoring.

XP-QNET/IPC
Multi-Function IP DESFire QR Network Controller. Switching Power Supply Battery Charger. Back Up Battery. Metal Enclosure. Support Door Access, Lift Access & Alarm Monitoring (MK820 Reader Interface Required).

XP-QNET-GAC/IPC
Master Controller For Q Series Global Anti-Passback. Switching power supply battery charger. 7AH Sealed Lead-Acid Rechargeable Battery.

XP-QNET-GAC
Master Controller For Q Series Global Anti-Passback. HENGFU switching power supply battery charger. 12AH Sealed Lead-Acid Rechargeable Battery. 5 Door IP Centralized Controller Board Only.

PLATO-Q82
QR Code and MIFARE Classis / DESFire Multiple Card Format 13.56 MHz. Encrypted RS485 - Read CSN and Encrypted Profile ID . ABS Casing. MCMC Certified. (Replacement Model for PLATO-Q81MS).

PLATO-M82
MIFARE Classic / DESFire Advanced High Security Multi-Format 13.56 MHz ISO14443A / B. Encrypted RS485 - Read CSN and Encrypted Profile ID. ABS Casing. MCMC Certified. (Replacement Model for PLATO-RM80MS).

PLATO-K82
MIFARE Classic / DESFire Advanced High Security Multi-Format 13.56 MHz ISO14443A / B. Color Gaphics LCD. Touch Sense Keypad. Encrypted RS485 - Read CSN and Encrypted Profile ID. ABS Casing. MCMC Certified. (Replacement Model for PLATO-RM80KLS).