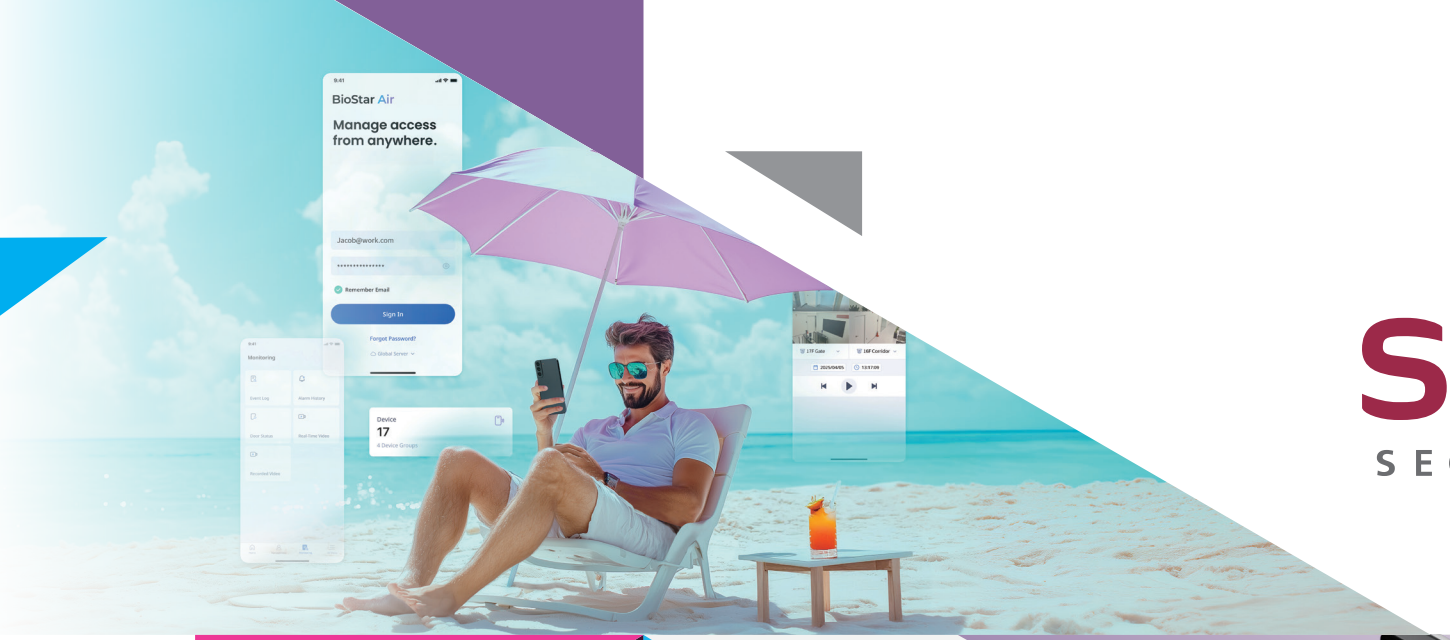
2026 | COMPANY BUSINESS CATALOGUE

suprema

SECURITY & BIOMETRICS







Contents

BioStar X | 08p

BioStar Air | 12p

Biometrics | 16p

Controller | 18p

RFID Reader | 20p

Mobile | 22p

Development Tools | 26p

Product Data Sheet | 28p

Facial Authentication powerd by AI



To become a Global leading provider of AI-powered Access Control and Security Solutions with innovative products and services





Established in 2000, Suprema Inc. is a global leader in AI-powered Access Control and Security Solutions. Over the past two decades, Suprema has demonstrated its expertise and technical superiority in AI security and biometric authentication. Suprema has led groundbreaking innovations in the industry, introducing an integrated security platform, deep-learning based AI solutions, biometric access control systems, cloud solutions, mobile access solutions, and embedded fingerprint modules.

Suprema serves diverse clients across government organizations, banks, hospitals, schools, manufacturing factories, and construction sectors. From startups, mid-sized to enterprise-level businesses, Suprema offers customized solutions and services to meet varying security needs.

With a presence in over 140 countries, Suprema has established itself as a premium global brand. Suprema is recognized among the world's top 50 security manufacturers and holds the top market share in biometric access control across Europe, Middle East, and Africa region.

Year Established

2000

Security Manufacturer

Top 50

(A&S Magazine, 2011-2025,
15 years in a row)

EMEA Market Share

No.1

in Biometric Access Control
(IHS Markit)

Number of people using
Suprema technologies

1 Billion +

Systems
in Operation

1.5 Million +

(worldwide installations)

Global Sales
Network in

140 Countries

National Identification
Projects in

23 Countries

Industry Patents and
Intellectual Properties

100+

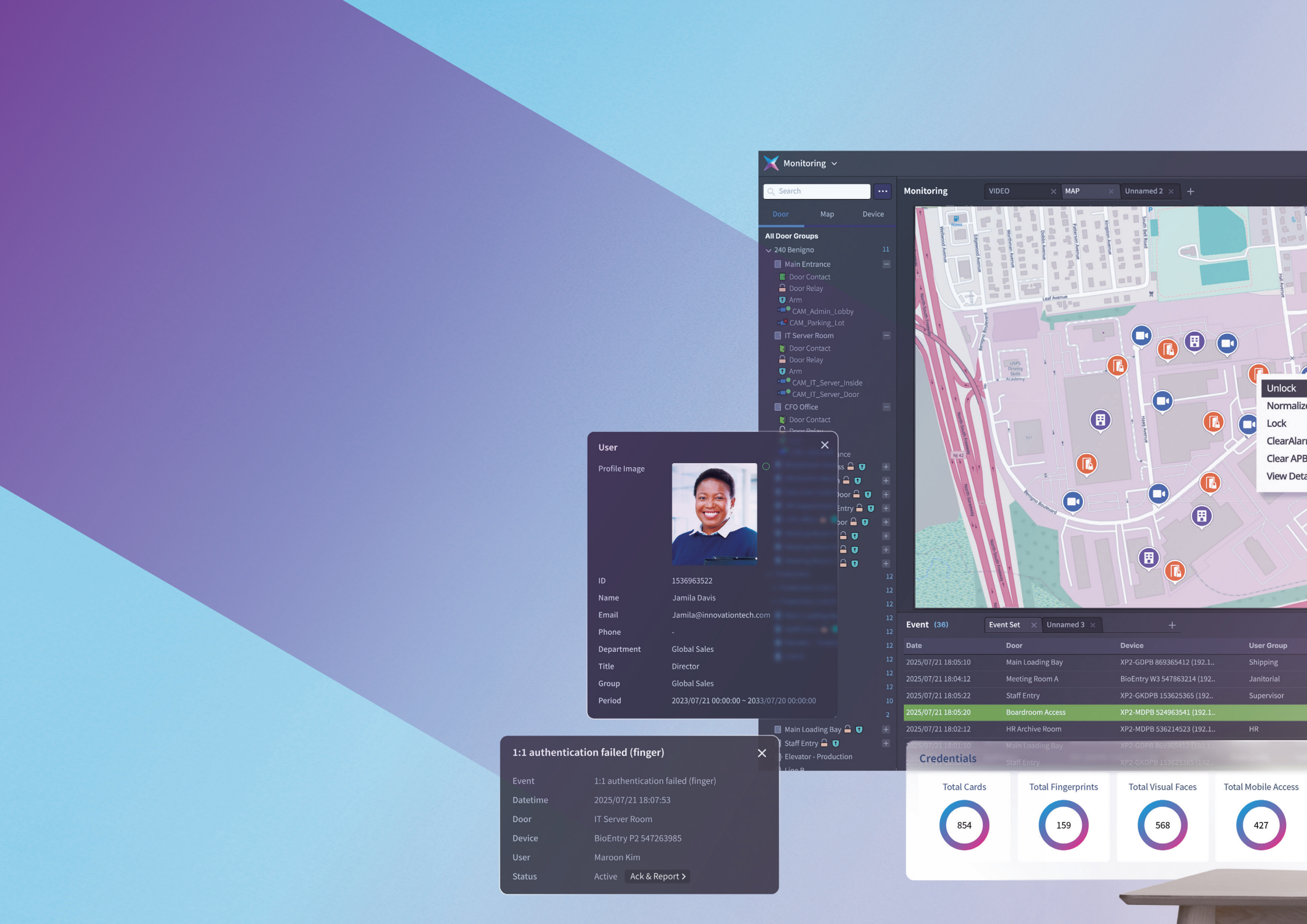
Excellent Financial
Stability

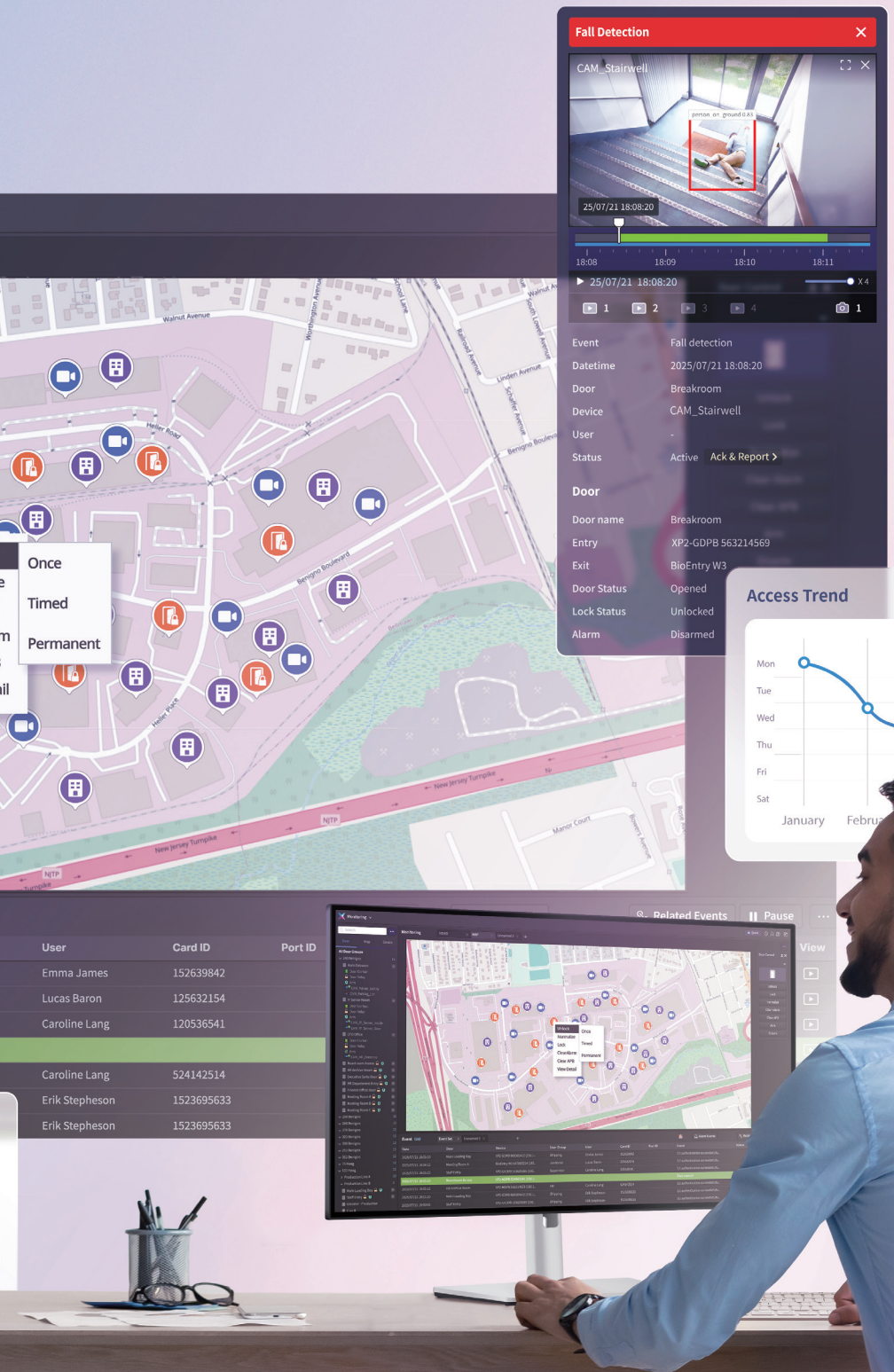
A+

(Korea Investors Service)






Monitoring
Search
Door
Map
Device
All Door Groups
240 Benigno
Main Entrance
Door Contact
Door Relay
Arm
CAM_Admin_Lobby
CAM_Parking_Lot
IT Server Room
Door Contact
Door Relay
Arm
CAM_IT_Server_Inside
CAM_IT_Server_Door
CFO Office
Door Contact
Main Loading Bay
Staff Entry
Elevator - Production
Monitoring
VIDEO
MAP
Unnamed 2
Unlock
Normalize
Lock
ClearAlarm
Clear APB
View Deta
User
Profile Image
ID 1536963522
Name Jamila Davis
Email Jamila@innovationtech.com
Phone -
Department Global Sales
Title Director
Group Global Sales
Period 2023/07/21 00:00:00 ~ 2033/07/20 00:00:00
1:1 authentication failed (finger)
Event 1:1 authentication failed (finger)
Datetime 2025/07/21 18:07:53
Door IT Server Room
Device BioEntry P2 547263985
User Maroon Kim
Status Active
Ack & Report
Event (36)
Event Set
Unnamed 3
Date
Door
Device
User Group
2025/07/21 18:05:10 Main Loading Bay XP2-GDPB 869365412 (192.1.. Shipping
2025/07/21 18:04:12 Meeting Room A BioEntry W3 547863214 (192.. Janitorial
2025/07/21 18:05:22 Staff Entry XP2-GKDPB 153625365 (192.. Supervisor
2025/07/21 18:05:20 Boardroom Access XP2-MDPB 524963541 (192.1..
2025/07/21 18:02:12 HR Archive Room XP2-MDPB 536214523 (192.1.. HR
Credentials
Total Cards 854
Total Fingerprints 159
Total Visual Faces 568
Total Mobile Access 427



BioStar

One Platform. Total Confidence.

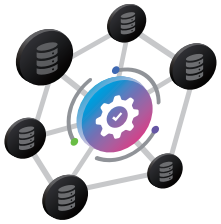
Suprema's on-premises security platform built natively around the world's most advanced biometric readers.



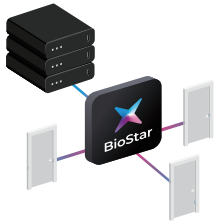
Native biometrics.
Built in.



Always on.
Ready for action.



Trusted operations.
Clear accountability.



On-premise control.
Open to connect.

Total control, over who, where and when.

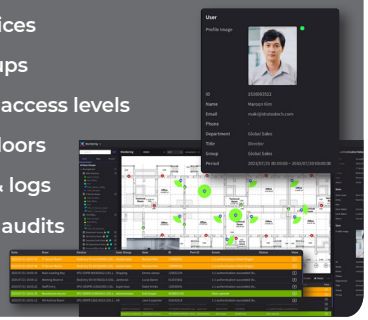
From biometric enrollment to schedules, zones, floors, and emergency rules, BioStar X manages access through one connected workflow. Suprema biometrics are part of the platform core, not a separate layer added through integration.

Core access control, centrally managed

—

Apply consistent access policies while retaining precise local control.

- Users & groups
- Security devices
- Doors & groups
- Schedules & access levels
- Elevators & floors
- Monitoring & logs
- Templates & audits



Advanced AC

—

Enforces behavioral policies, safety standards, and emergency protocols with powerful zone logic.

- Anti-passback
- Fire alarm
- Interlock
- Schedule lock and unlock
- Occupancy
- Muster
- Intrusion alarm
- Roll Call

Emergency management

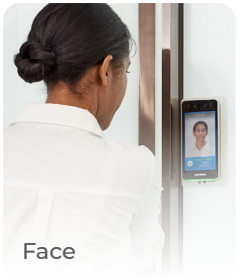
—

BioStar X makes it easy to respond fast with just one button push or tap on your phone.

- One-click lockdown
- On-site Roll Call
- Emergency open permissions
- Door lock/unlock

Multi-credential. One user, multiple ways in.

BioStar X natively manages Suprema face and fingerprint readers while supporting mobile, QR, RFID, and PIN credentials for employees, contractors, and visitors. *Credential support varies by reader.


Face


Mobile credentials


Finger


QR code


RFID


PIN

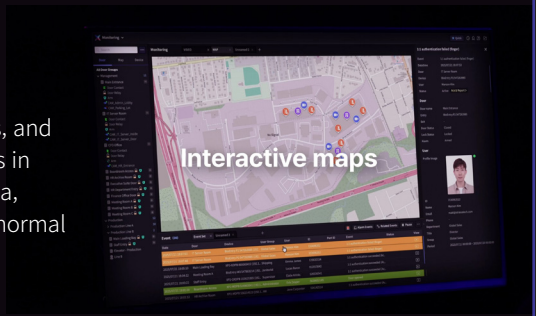
Always on, ready for action.

BioStar X brings live status, maps, alarms, access events, and linked video into one monitoring workspace. See what is happening across the site, investigate with context, and respond without switching tools.

See the whole site at a glance

—

Track doors, elevators, devices, and advanced access control zones in real time, then navigate by area, facility, or floor to focus on abnormal conditions requiring attention.



Understand what happened, faster

—

Event Log · Real-time Log · Image Log · Video Log · VMS Integration ADD-ON

Resolve issues from the same screen

—

Unlock · Lock · Normalize · Clear Alarm · Clear APB · Open Video

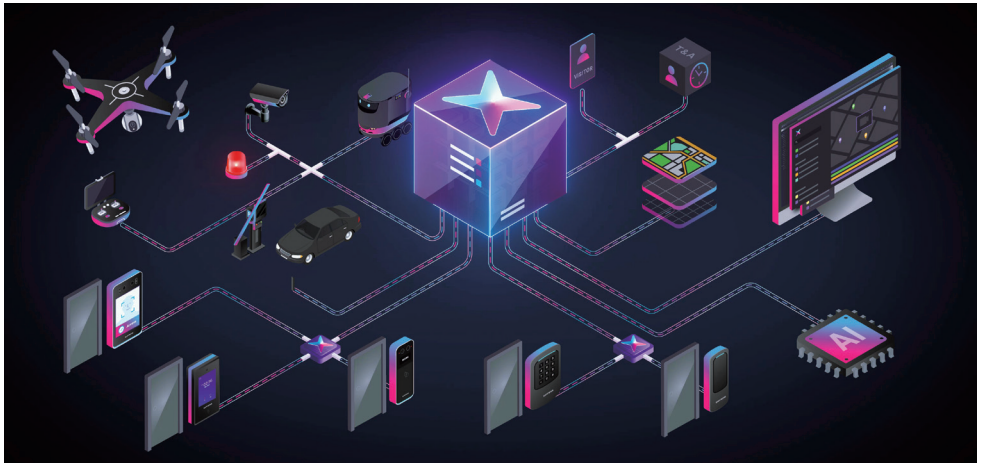
Keep systems healthy and responsive

—

Device Status · Alert History · Reconnect · Reboot · Lock Device · Stop Action

Connect access with the systems around it.

BioStar X uses standard APIs and supported integrations to connect access control with identity, visitor, video, and operational systems.



VMS integration.

Connect access events with live and recorded video, automatically bookmark key moments, and retrieve footage faster during investigations.

Network Optix Nx Witness · Leopard by Naiz

Identity integration.

Synchronize users and groups from enterprise identity systems, map user attributes and access-related fields, and enable secure, centralized sign-in across BioStar X.

Microsoft Entra ID · Microsoft Active Directory

Visitor ID capture.

Speed up visitor registration by scanning an identity document to automatically capture the visitor's name, photo, and face credential.

DESKO ID scanners

Rock-solid security, for real operations.

BioStar X protects access operations with encrypted communications, granular permissions, account safeguards, and resilient system architecture, backed by Suprema's certified security and privacy management systems.

- Multi-communication server
- Granular access permissions
- Trust and compliance controls
- Secure tamper on Suprema devices
- Encrypted communications
- Authentication Lockout

BioStar Air

Zero on-prem. All-in on cloud.

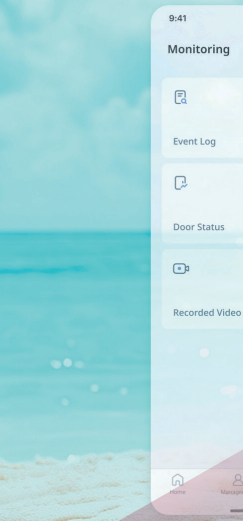
The only access control solution that natively connects the world's most advanced biometric readers to the cloud.

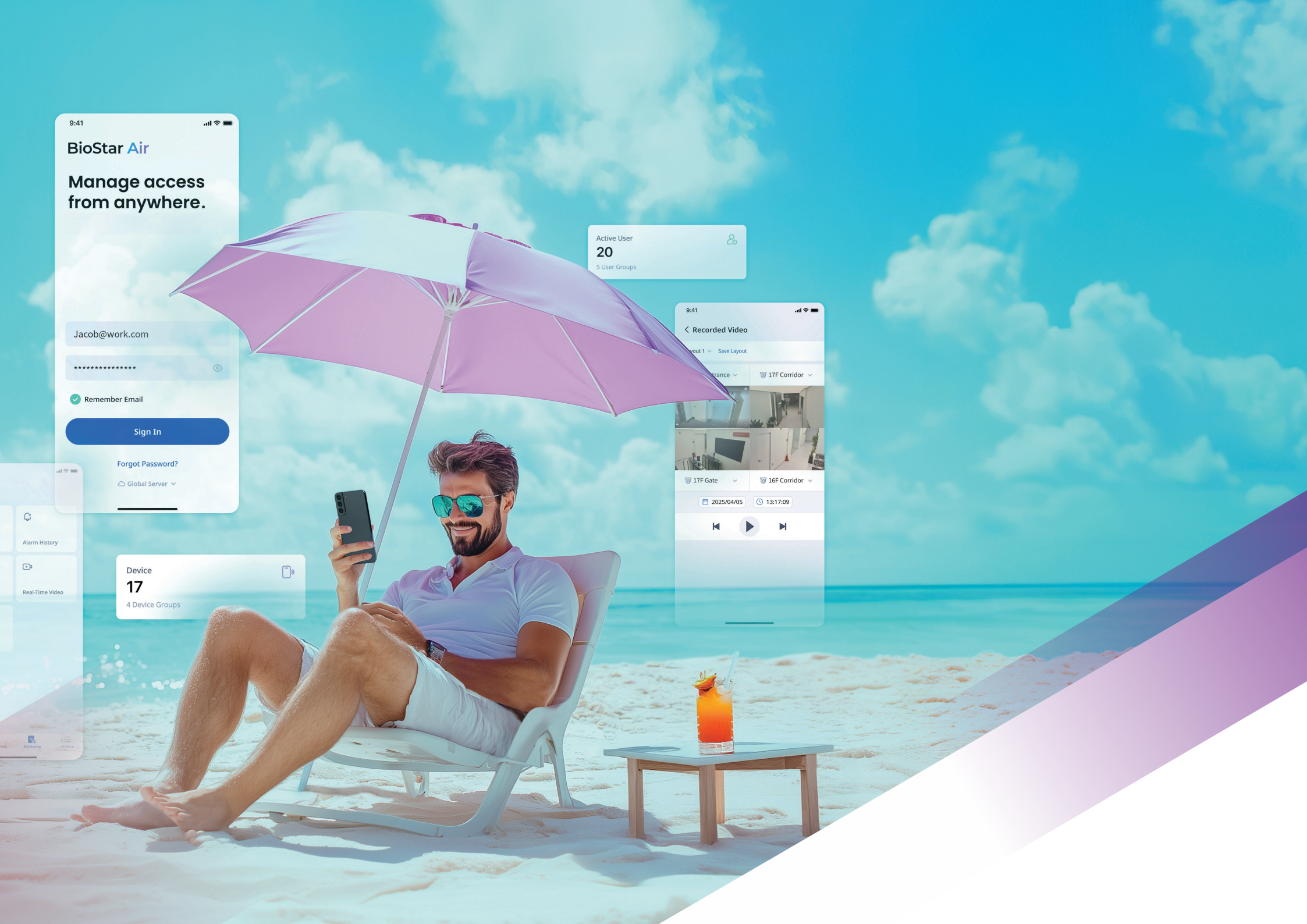
Built by the global leader in biometric security, BioStar Air eliminates the need for door controllers and on-prem servers while offering the most flexible credential options available. Smart readers with cutting-edge design connect seamlessly to its cloud-managed platform, giving you complete control of access to all your sites from your phone or browser.
Simple to manage, effortless to scale, ultimately secure—BioStar Air.

Fire & Security Matters Awards
Security Innovation of the Year (2026)

a&s ADRIA Awards
Winner in the Access Control Category (2025)

Security InfoWatch Reader's Choice Awards
Winner of Access Control Software (2025)




9:41
BioStar Air
Manage access from anywhere.
Jacob@work.com
Remember Email
Sign In
Forgot Password?
Global Server
Active User
20
5 User Groups
9:41
Recorded Video
Save Layout
17F Corridor
17F Gate
16F Corridor
2025/04/05
13:17:09
Alarm History
Real-Time Video
Device
17
4 Device Groups



Cloud Biometrics.
Done right.



Hybrid edge.
Real-world ready.



Flexible control.
Protected Data.



Elastic scalability.
Global consistency.

Effortless access control, from anywhere.

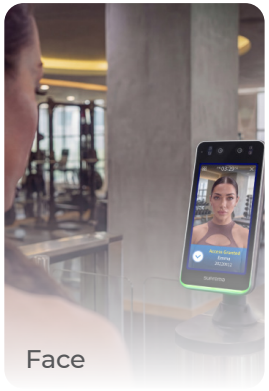
With BioStar Air, you stay in control. Set up and manage sites, enroll users, and define access levels yourself without relying on your service provider. All from one cloud platform with a modern, intuitive interface designed to stay clear and easy to use.

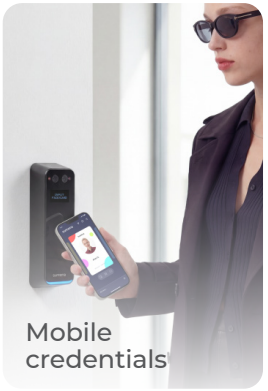


- Users & groups
- Access readers & cameras
- Doors & groups
- Schedules & access levels
- Elevators & floors
- Monitoring & logs

One identity, multiple credentials.

Create, send, and revoke all kinds of credentials remotely. No site visit required to add cards, faces, or QR. Empower your organization with the right access mix.
*Credential support varies by reader.







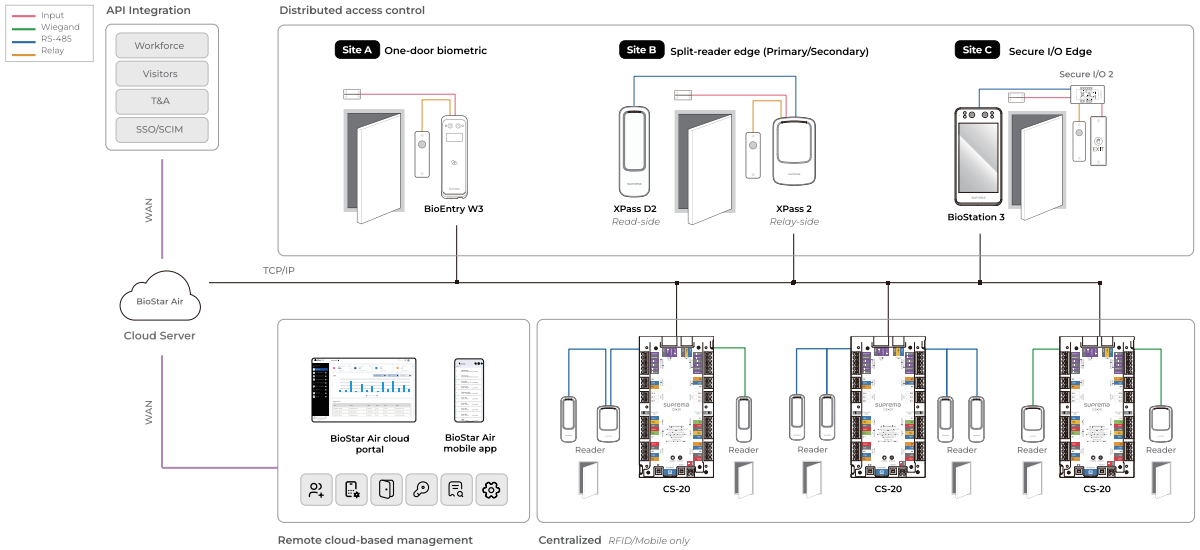






Hybrid edge. Built for the real world.

BioStar Air combines edge intelligence with flexible architecture, from direct-to-cloud deployment to controller-based systems with RS-485 expansion for larger environments.



Direct-to-cloud edge.

Each device operates independently with built-in intelligence, enabling fast one-cable deployment without additional infrastructure.

Controller-based systems.

Drop-in replacement for existing systems with two-door controllers to support retrofits on larger sites, centralized control, and more complex deployments.

RS-485 device chaining.

Connect multiple readers through a single network point to reduce cabling and simplify door configurations.

Grow.

Without chaos.

BioStar Air secures and maintains everything on your behalf, so you never have to install a security patch or reboot a server.

SSO & USER PROVISIONING

Synchronize users, groups, and admins from Microsoft Entra or Okta*.

BULK OPERATIONS

Import and update users at scale with batch actions.

REMOTE DEVICE CONTROL

Manage firmware, reboot, and reset devices remotely.

CUSTOM REPORTS & ALERTS

Flexible reporting and alerts, without limits or paywalls.

FLEXIBLE GROUP STRUCTRURE

Organize users, doors, and devices with clear, scalable hierarchies.

ADMIN LIFECYCLE CONTROL

Full visibility: invite, modify, or revoke access at any stage.

FULL AUDIT TRAIL

Track every action across users, devices, and administrators.

REAL-TIME STATUS

Monitor full site health, door status, and device status in real time.

*Identity-provider integration requires an additional license.

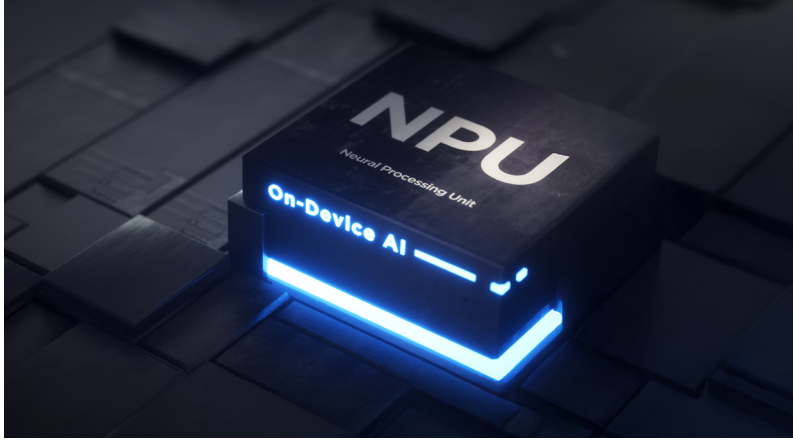
Biometrics

Leading provider of biometric solutions since 2000, Suprema has continuously innovated fingerprint and facial authentication technology as well as deep learning artificial intelligence that is core to biometric solutions.



Artificial Intelligence

Leveraging Suprema's extensive field data accumulated for over decades, Suprema boasts unparalleled authentication capabilities specializing in biometric access control. Suprema has developed a cutting-edge biometric authentication AI algorithm, adopting a highly advanced AI processor known as the NPU(Neural Processing Unit), optimized for deep learning. With its expertise in creating a lightweight AI engine and capability to effectively train vast biometric template data, Suprema’s deep-learning based AI algorithm ensures the highest accuracy in authentication performance. This positioned Suprema as the world's first company to adopt NPU-based deep-learning technology into biometric authentication.





Facial Authentication

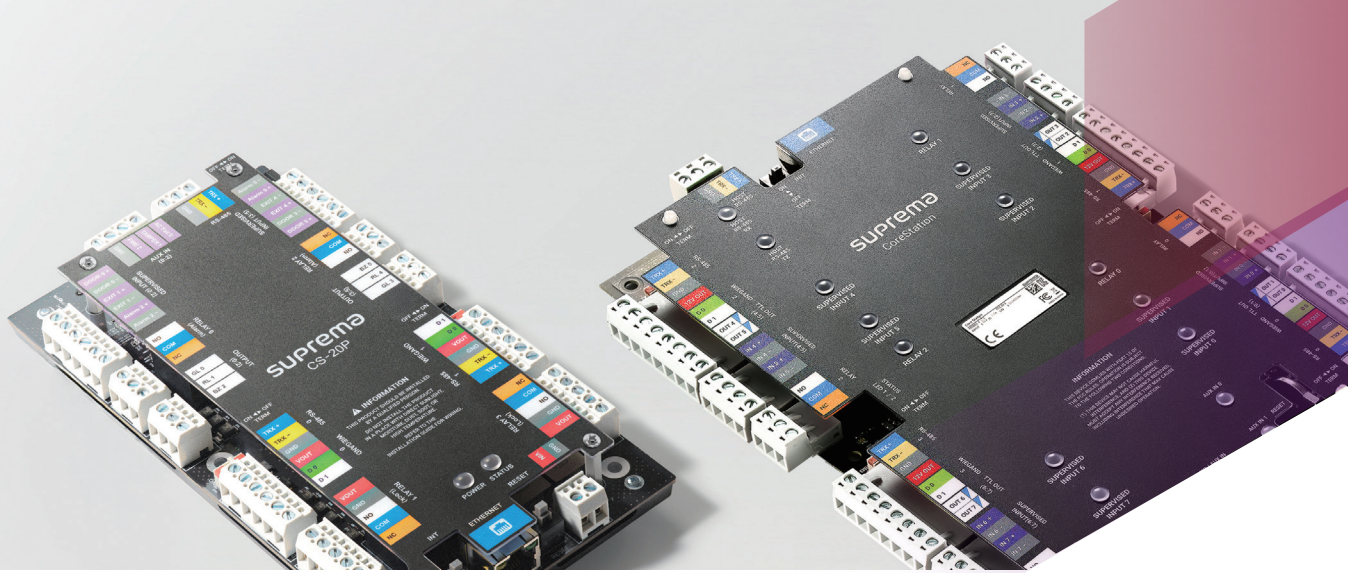
Suprema’s deep-learning based AI algorithm delivers highly accurate and fast facial authentication performance with BioStation 3. It uses dynamic face templates to increase matching accuracy for people of diverse ethnicities and those wearing masks, glasses, hats, beards, niqabs, and various hairstyles. Also, it is not only highly accurate but also fast, so it takes within 0.2 seconds to authenticate moving faces.

Fingerprint Recognition

Suprema has pioneered fingerprint recognition technology based on deep learning. As a result, the accuracy, speed, and spoof-fingerprint detection performance of BioStation 2a's deep-learning-based AI algorithm are outstanding. Deep-learning has significantly enhanced the AI algorithm's capability to extract templates from low-quality fingerprints, such as those that are noisy or distorted. Also, it offers Live Finger Detection (LFD) which detects fake fingerprints copied using rubber, silicone, clay, glue, film, etc. ensuring highly accurate performance.

Controller

Suprema controller provides the advantages of a biometric-enabled security over a centralized access control system.

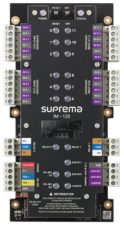


CoreStation (CS-40) | Intelligent Biometric Controller

Designed to accommodate enterprise-level systems, Suprema CoreStation stores up to 500,000 users with an incredible fingerprint matching speed of up to 400,000 match per second. Its multi-port interface also supports nonbiometric access control system such as RFID card readers, door locks, alarms sensors and RTE. With its high-performance, biometric readiness and Ethernet communication, CoreStation lets users access the full features of the BioStar X platform Suprema CoreStation can be used in conjunction with door modules and output extension modules to control up to 132 access points. Suprema modules provides secure connection with encrypted communication.

CoreStation 20 (CS-20, CS-20P) | 2 Door Controller

CoreStation 20 is a controller that supports PoE+ for easy installation and 2-door access control, providing an enterprise-grade security solution. As a centralized access control system, it stores up to 500,000 users and integrates seamlessly with BioStar X for access control and time attendance management while offering high compatibility with various interfaces. The CS-20P model also supports a SAM card slot for enhanced security.



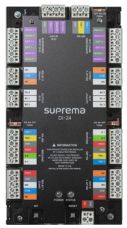
Input Module (IM-120)

- 12 supervised inputs
- Offline operation
- Auxiliary & tamper input



Output Module (OM-120)

- Up to 12 output relays
- Elevator control with BioStar X
- Anti-passback, fire alarm feature



Door Interface Module (DI-24)

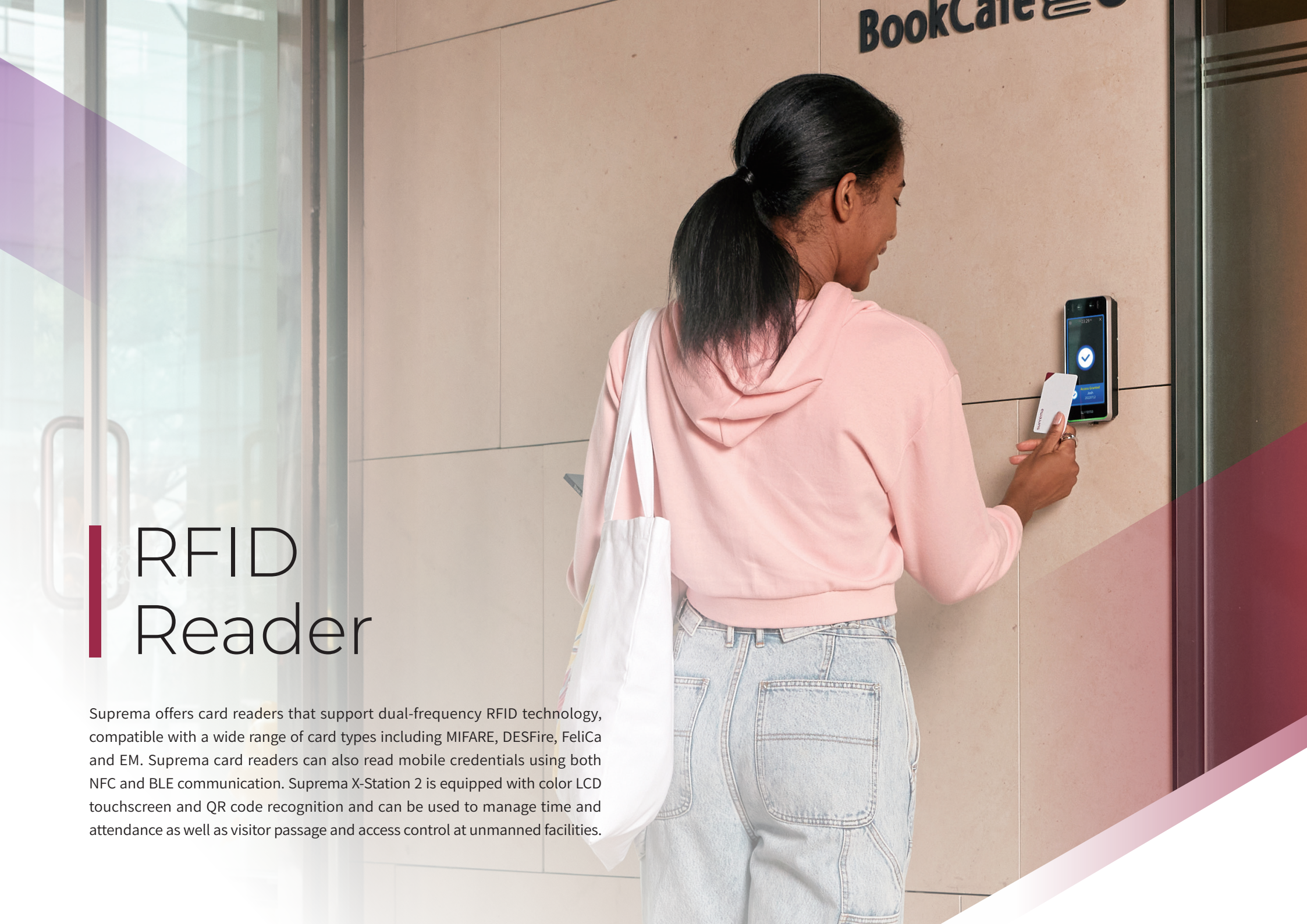
- Economical expansion option
- Green LED/Red LED/Buzzer control
- Dedicated Fire, Tamper, Power Fail inputs
- Provides DC power output for door locks and readers



Secure Module (SIO2)

- Secure door control
- Encrypted communication
- Compact form factor


suprema
OM-120
suprema
CS-20
suprema
DI-24
suprema
CoreStation
suprema
IM-120



RFID Reader

Suprema offers card readers that support dual-frequency RFID technology, compatible with a wide range of card types including MIFARE, DESFire, FeliCa and EM. Suprema card readers can also read mobile credentials using both NFC and BLE communication. Suprema X-Station 2 is equipped with color LCD touchscreen and QR code recognition and can be used to manage time and attendance as well as visitor passage and access control at unmanned facilities.





X-Station 2

Versatile Intelligent Terminal

- Compatible with most RFID cards, Mobile Access cards, QR codes
- Enhanced security with Secure Boot and OSDP(Open Supervised Device Protocol)
- Built-in Camera for image logs



XPass Q2

Intelligent QR/RFID reader

- Reads most QR codes/barcodes, RFID cards, and mobile credentials
- IP65-rated for reliable indoor/outdoor use
- Provides DC power output for door locks and readers



XPass 2

Outdoor Compact RFID Device

- Compatible with most RFID cards and dual-frequency
- Mobile Access cards
- IP67 and IK08 Vandal-proof structure

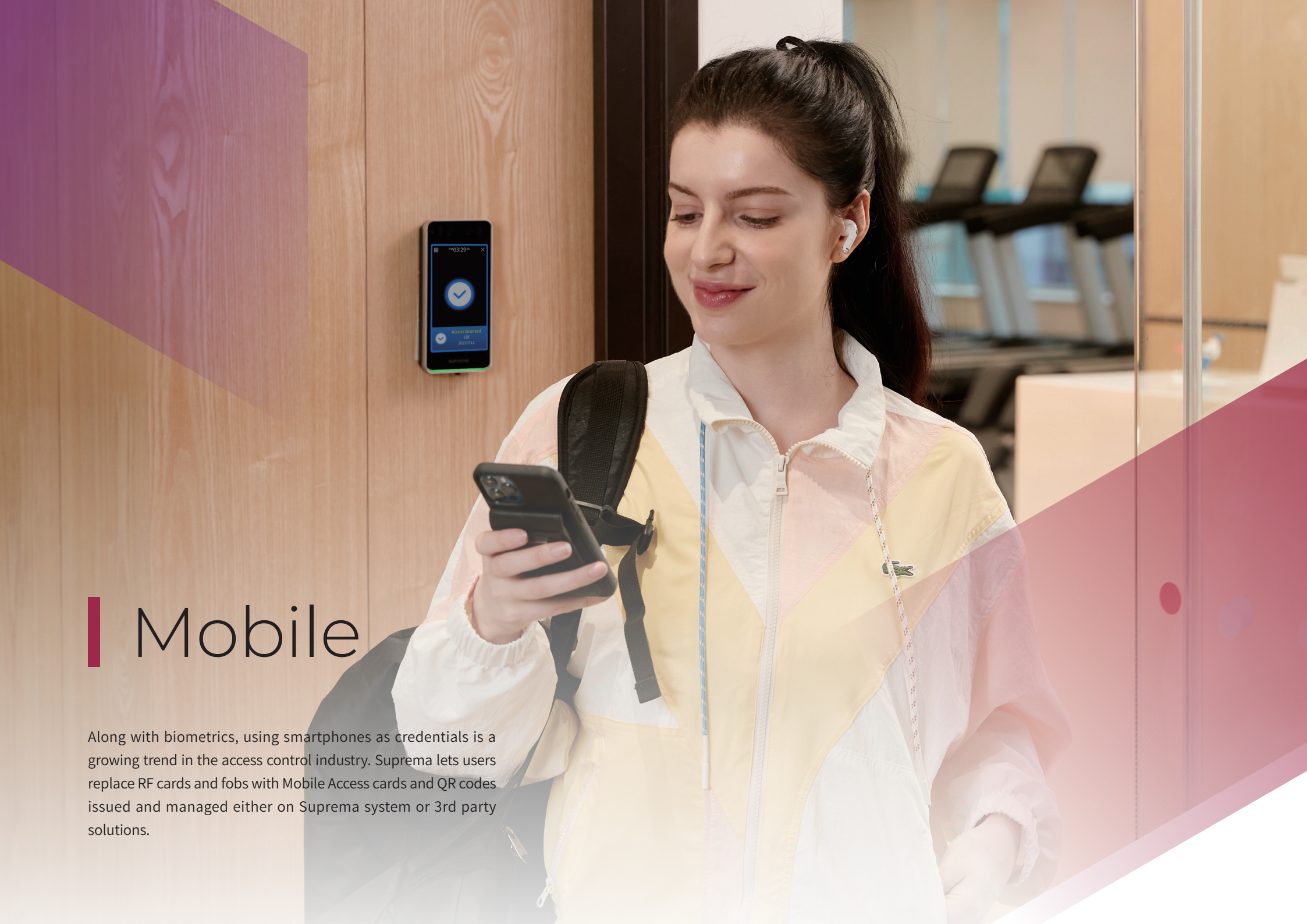


XPass D2

Outdoor Compact RFID Reader

- Compatible with most RFID cards and dual-frequency
- Mobile Access cards*
- IP67 and IK08 Vandal-proof structure
- SIA OSDP verified

* Suprema Mobile Access is supported on XPass D2 - V02A H/W versions only.



Mobile

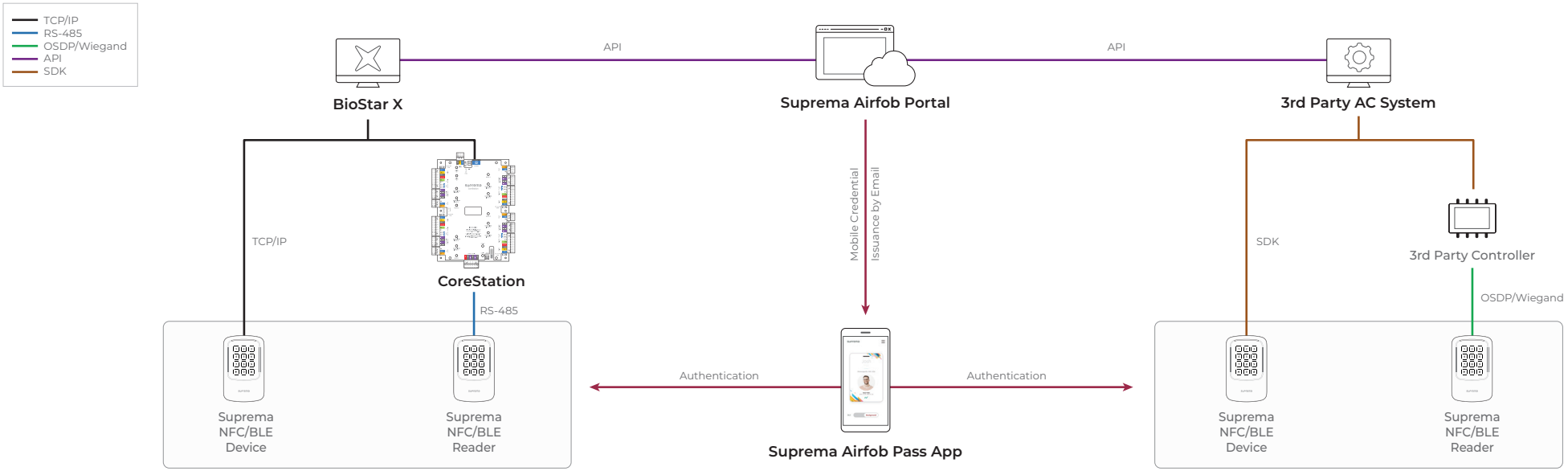
Along with biometrics, using smartphones as credentials is a growing trend in the access control industry. Suprema lets users replace RF cards and fobs with Mobile Access cards and QR codes issued and managed either on Suprema system or 3rd party solutions.

Suprema Mobile Access

Suprema Mobile Access significantly improves user convenience by letting people use smartphones as access cards. Mobile access cards can be issued on either BioStar X or Suprema Airfob Portal and users can receive them via email. Suprema Mobile Access can easily be integrated with 3rd party systems.

- Fast and easy contactless solution
- Support both NFC & BLE (Bluetooth 4.2 or above)
- Remote management via web portal
- Background mode (BLE, Standby mode)
- Compatible with Android (9.0 or above) & iOS (7.0 or above)

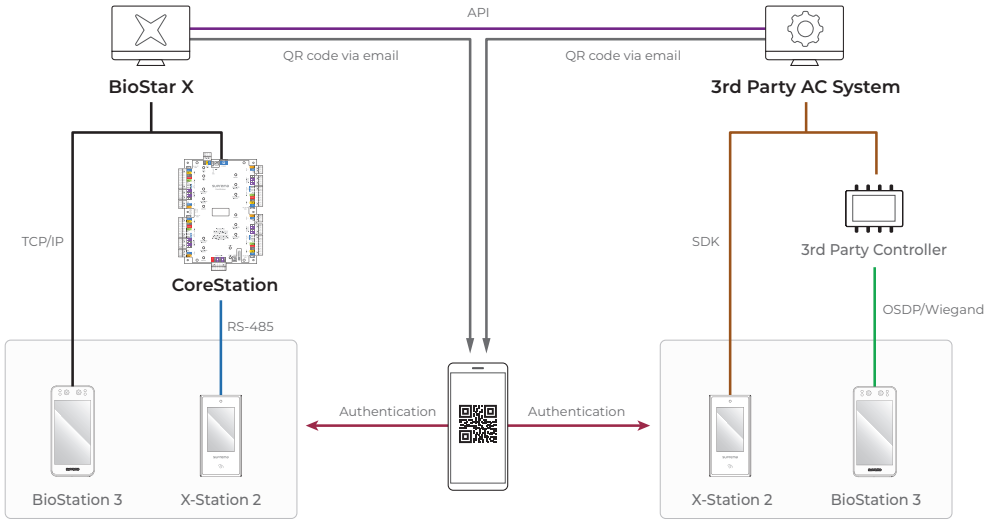


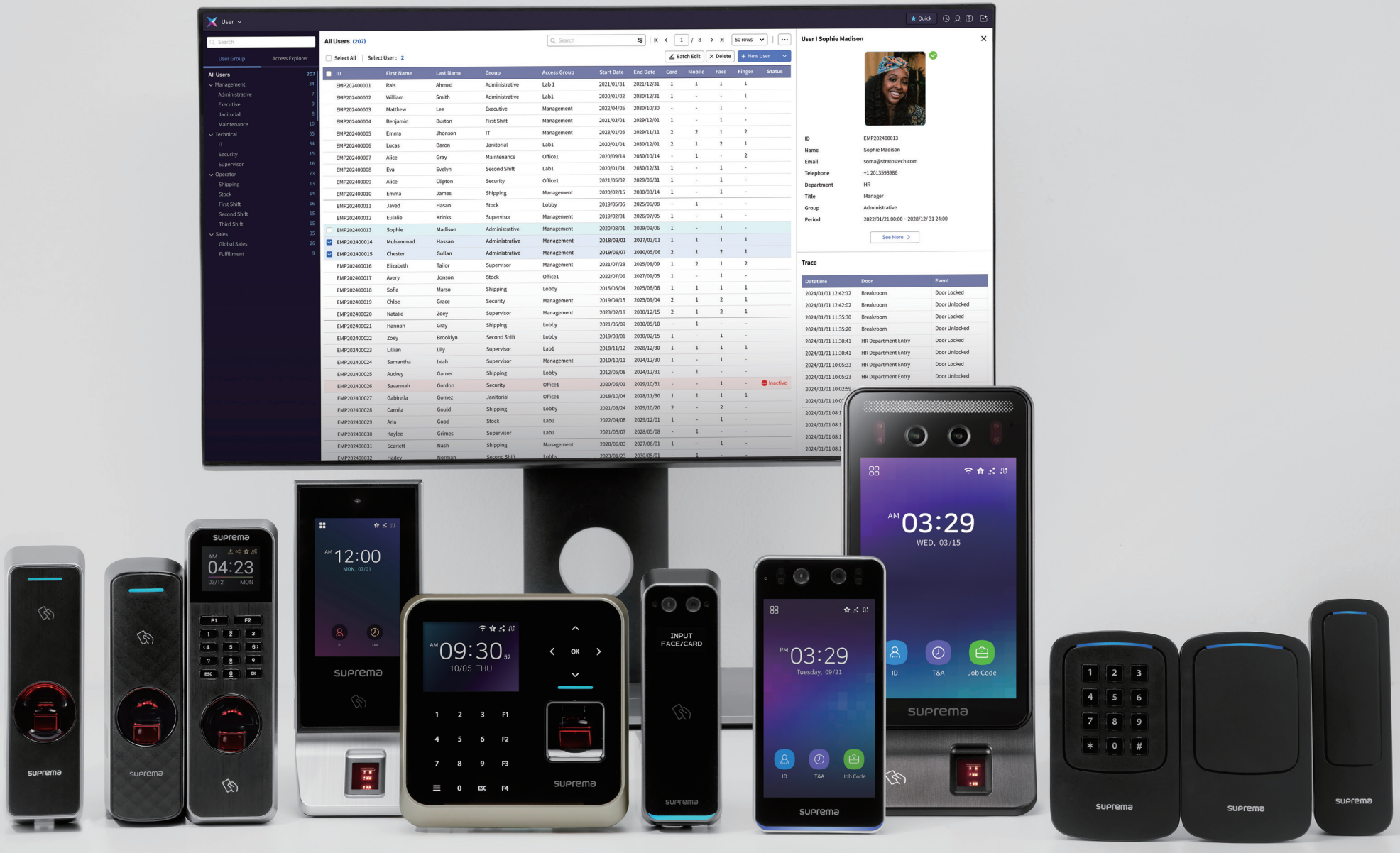




QR Code

Suprema offers the option of using QR codes as credential. Suprema's BioStation 3 and X-Station 2 can read QR codes composed of up to 32 ASCII codes. QR codes can be issued on BioStar X or 3rd party systems.




User
Quick
All Users (207)
Select All
Select User : 2
Batch Edit
Delete
New User
User I Sophie Madison
ID EMP202400013
Name Sophie Madison
Email soma@stratostech.com
Telephone +1 2013593986
Department HR
Title Manager
Group Administrative
Period 2022/01/21 00:00 ~ 2028/12/ 31 24:00
See More
Trace
Datetime
Door
Event
2024/01/01 12:42:12 Breakroom Door Locked
2024/01/01 12:42:02 Breakroom Door Unlocked
2024/01/01 11:35:30 Breakroom Door Locked
2024/01/01 11:35:20 Breakroom Door Unlocked
2024/01/01 11:30:41 HR Department Entry Door Locked
2024/01/01 11:30:41 HR Department Entry Door Unlocked
2024/01/01 10:05:33 HR Department Entry Door Locked
2024/01/01 10:05:23 HR Department Entry Door Unlocked
AM 03:29
WED, 03/15
ID
T&A
Job Code
suprema
AM 12:00
MON, 07/01
AM 09:30
10/05 THU
INPUT
FACE/CARD
PM 03:29
Tuesday, 09/21
AM 04:23
03/12 MON

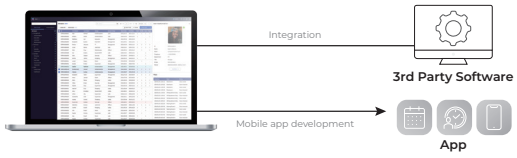


Development Tools

Suprema is integrating with security system partners to be able to offer our products and solutions to a wider group of customers. Integration lets customers add Suprema products to their infrastructure in a streamlined and efficient way.

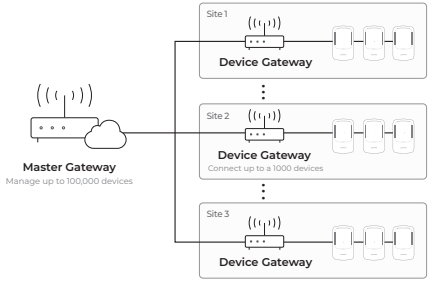
BioStar X API

BioStar X API is a comprehensive web application programming interface that provides necessary tools for developers to create applications or integrate BioStar X into 3rd party software.



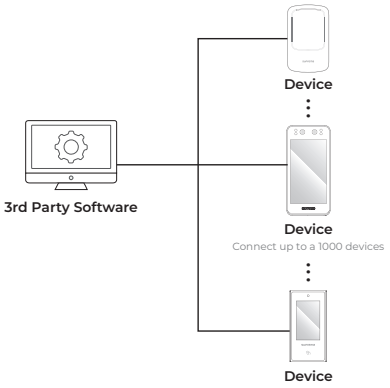
Suprema G-SDK

Suprema G-SDK is a new software development kit for allowing Suprema devices to be integrated with third-party software. It is a lightweight, scalable, and cross-platform solution which expedites your development.



BioStar Device SDK

BioStar Device SDK development framework allows developers to seamlessly integrate core functionality of Suprema biometric devices and terminals with 3rd party software.



Product Data sheet

*Please always refer to the website for the most up-to-date information.

Product					
Product Name		**BioStation 3 Max**	**BioStation 3**	**BioEntry W3**	**BioStation 2a**
General	Biometric	**Face**:BS3M-DB, APB / **Face, Fingerprint**: BS3M-ODB, OAPB	Face	Face	Fingerprint
	LFD (Live Finger Detection)	**BS3M-DB, APB**: - / **BS3M-ODB, OAPB**: Supported (SW-based)	-	-	Supported (SW-based)
	Protection Class	IP65, IK06	IP65, IK06	IP67, IK08	IP65
	RF Options	**BS3M-DB, ODB**: 125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire, DESFire EV1/EV2/EV3, FeliCa **BS3M-APB, OAPB**: 125kHz EM, HID Prox & 13.56MHz MIFARE, MIFARE Plus, DESFire, DESFire EV1/EV2/EV3, FeliCa, iCLASS SE/SR/Seos	**BS3-DB**: 125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire, DESFire EV1/EV2/EV3, FeliCa **BS3-APWB**: 125kHz EM, HID Prox & 13.56MHz MIFARE, MIFARE Plus, DESFire, DESFire EV1/EV2/EV3, FeliCa, iCLASS SE/SR/Seos	**BEW3-DB**: 125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire, DESFire EV1/EV2/EV3, FeliCa **BEW3-APB**: 125kHz EM, HID Prox & 13.56MHz MIFARE, MIFARE Plus, DESFire, DESFire EV1/EV2/EV3, FeliCa, iCLASS SE/SR/Seos	**BS2A-ODPB**: 125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire, DESFire EV1/EV2/EV3, FeliCa **BS2A-OAPWB**: 125kHz EM, HID Prox & 13.56MHz MIFARE, MIFARE Plus, DESFire, DESFire EV1/EV2/EV3, iCLASS SE/SR/Seos, FeliCa
	Mobile	NFC, BLE	NFC, BLE	NFC, BLE	NFC, BLE
Capacity	Max. User[1]	100,000	100,000	100,000	500,000
	Max. Credential (1:N)[2]	Face: 50,000 Fingerprint: 100,000 (**BS3M-ODB, OAPB** only) Card: 100,000	Face: 50,000	Face: 30,000 Card: 100,000	Fingerprint: 100,000
	Max. Credential (1:1)[2]	Face: 100,000 Fingerprint: 100,000 (**BS3M-ODB, OAPB** only) Card: 100,000 PIN: 100,000	Face: 100,000 Card: 100,000 PIN: 100,000	Face: 30,000 Card: 100,000	Fingerprint: 500,000 Card: 500,000 PIN: 500,000
	Max. Text Logs	5,000,000	5,000,000	1,000,000	5,000,000
	Max. Image Logs	50,000	50,000	10,000	-
Interfaces	Wi-Fi	-	**BS3-DB**: - / **BS3-APWB:** 802.11 b/g/n 2.4 GHz	-	**BS2A-ODPB**: - / **BS2A-OAPWB**: 802.11 b/g/n 2.4 GHz
	Ethernet	10/100/1000 Mbps, auto MDI/MDI-X	10/100/1000 Mbps, auto MDI/MDI-X	10/100 Mbps, auto MDI/MDI-X	10/100 Mbps, auto MDI/MDI-X
	RS-485	1 ch Master or Slave (Selectable)	1 ch Master or Slave (Selectable)	1 ch Master or Slave (Selectable)	1 ch Master or Slave (Selectable)
	RS-485 Communication Protocol	OSDP V2 compliant	OSDP V2 compliant	OSDP V2 compliant	OSDP V2 compliant
	Wiegand	1 ch Input, 1 ch Output	1 ch Input, 1 ch Output	1 ch Input, 1 ch Output	1 ch Input, 1 ch Output
	Input	3 ch Input	3 ch Input	3 ch Input	3 ch Input
	Relay	1 Relay	1 Relay	1 Relay	1 Relay
	USB	USB 2.0 (Type C)	USB 2.0 (Host)	USB 2.0 (Type C), only FW-Upgrade	USB 2.0 (Host)
Hardware	CPU	1.4 GHz Quad Core	1.5 GHz Quad Core	1.5 GHz Quad Core	1.5 GHz Quad Core
	Memory	32 GB Flash + 4 GB RAM	32 GB Flash + 4 GB RAM	16 GB Flash + 2 GB RAM	16 GB Flash + 2 GB RAM
	Crypto Chip	Supported	Supported	Supported	Supported
	Sound	16 bit	16 bit	16 bit	16 bit
	Operating Temperature	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 60°C (-4°F ~ 140°F)
	Tamper	Supported	Supported	Supported	Supported
	Power	Voltage: 12 Vdc, Current: Max. 2.1 A Voltage: 24 Vdc, Current: Max. 1 A	Voltage: 12 Vdc, Current: Max. 1 A Voltage: 24 Vdc, Current: Max. 0.65 A	Voltage: 12 Vdc, Current: Max. 1.0 A Voltage: 24 Vdc, Current: Max. 0.6 A	Voltage: 12 Vdc, Current: Max. 0.8 A Voltage: 24 Vdc, Current: Max. 0.4 A
	PoE	**BS3M-DB, ODB**: - **BS3M-APB, OAPB**: PoE+, IEEE 802.3at compliant	**BS3-DB**: - **BS3-APWB**: PoE+, IEEE 802.3at compliant	**BEW3-DB**: - **BEW3-APB**: IEEE 802.3af compliant	IEEE 802.3af compliant
	Dimensions (W x H x D mm)	**BS3M-DB, APB**: 119.8 x 233 x 23.5 **BS3M-ODB, OAPB**: 119.8 x 268.3 x 49.6	82.5 x 171 x 23.4	50 x 160 x 34.15	142 x 144 x 45 (Bottom) / 37.8 (Top)
	Certifications	CE, UKCA, KC, FCC, IC, RCM, RoHS, REACH, WEEE, SIG, MIC, TELEC, ETL Listed to UL 294	**BS3-DB**: CE, UKCA, KC, FCC, IC, RCM, BIS, SIG, RoHS, REACH, WEEE, MIC, TELEC **BS3-APWB**: CE, UKCA, KC, FCC, IC, RCM, BIS, SIG, RoHS, REACH, WEEE, MIC, TELEC, ETL Listed to UL 294	CE, UKCA, KC, FCC, IC, RCM, BIS, ANATEL, SIG, RoHS, REACH, WEEE, EAC, TELEC	CE, UKCA, KC, FCC, RCM, SIG, RoHS, REACH, WEEE

1) The number of users registered without having any credential data.

2) If FaceStation F2, BioStation 3 are a master device and a device with a fingerprint sensor is connected as a slave, the slave device can be used for fingerprint authentication. You can find the capacity for fingerprint in the website's guide documentation.

						
BioLite N2	**BioEntry W2**[3]	**BioEntry P2**	**X-Station 2**	**XPass Q2**	**XPass 2**	**XPass S2**
Fingerprint	Fingerprint	Fingerprint	**Fingerprint**: XS2-ODPB, OAPB	-	-	-
Supported (SW-based)	Supported (HW + SW-based)	Supported (SW-based)	**XS2-ODPB, OAPB**: Supported (SW-based)	-	-	-
IP67	IP67, IK09	-	IP65	IP65	IP65, IP67, IK08	IP65
BLN2-ODB: 125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire, DESFire EV1/EV2/EV3, FeliCa **BLN2-OAB, PAB**: 125kHz EM, HID Prox & 13.56MHz MIFARE, MIFARE Plus, DESFire, DESFire EV1/EV2/EV3, FeliCa, iCLASS SE/SR/Seos	**BEW2-OHPB**: 125kHz EM, HID Prox & 13.56MHz MIFARE, MIFARE Plus, DESFire, DESFire EV1/EV2/EV3, FeliCa **BEW2-ODPB**: 125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire, DESFire EV1/EV2/EV3, FeliCa **BEW2-OAPB**: 125kHz EM, HID Prox & 13.56MHz MIFARE, MIFARE Plus, DESFire, DESFire EV1/EV2/EV3, FeliCa, iCLASS SE/SR/Seos	**BEP2-OD**: 125KHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire, DESFire EV1/EV2/EV3, FeliCa **BEP2-OA**: 125KHz EM, HID Prox & 13.56MHz MIFARE, MIFARE Plus, DESFire, DESFire EV1/EV2/EV3, FeliCa, iCLASS SE/SR/Seos	**XS2-ODPB, DPB**: 125 kHz EM & 13.56 MHz MIFARE, MIFARE Plus, DESFire, DESFire EV1/EV2/EV3, FeliCa **XS2-OAPB, APB:** 125 kHz EM, HID Prox & 13.56 MHz MIFARE, MIFARE Plus, DESFire, DESFire EV1/EV2/EV3, FeliCa, iCLASS SE/SR/Seos	**XPQ2-DB, DPB**: 125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire, DESFire EV1/EV2/EV3, FeliCa	**XP2-MDPB, GDPB, GKDPB**: 125 kHz EM & 13.56 MHz MIFARE, MIFARE Plus, DESFire, DESFire EV1/EV2/EV3, FeliCa **XP2-MAPB:** 125 kHz EM, HID Prox & 13.56 MHz MIFARE, MIFARE Plus, DESFire, DESFire EV1/EV2/EV3, FeliCa, iCLASS SE/SR/Seos	13.56MHz MIFARE, MIFARE Plus, DESFire/EV1 (CSN), FeliCa, ISO14443A, ISO15693
NFC, BLE	NFC, BLE	NFC	NFC, BLE	NFC, BLE	NFC, BLE	-
10,000	500,000	10,000	500,000	200,000[4]	200,000	50,000
Fingerprint: 10,000	Fingerprint: 100,000	Fingerprint: 10,000	Fingerprint: 100,000 (**XS2-ODPB, OAPB** only)	Card: 200,000	-	-
Fingerprint: 10,000 Card: 10,000 PIN: 10,000	Fingerprint: 500,000 Card: 500,000	Fingerprint: 10,000 Card: 10,000	Fingerprint: 500,000 (**XS2-ODPB, OAPB** only) Card: 500,000 PIN: 500,000	Card: 200,000	Card: 200,000 PIN: 200,000 (**XP2-GKDPB** only)	Card: 50,000
1,000,000	1,000,000	1,000,000	5,000,000	1,000,000	1,000,000	100,000
-	-	-	50,000	-	-	-
-	-	-	-	-	-	-
10/100 Mbps, auto MDI/MDI-X	10/100 Mbps, auto MDI/MDI-X	10/100 Mbps, auto MDI/MDI-X	10/100 Mbps, auto MDI/MDI-X	10/100 Mbps, auto MDI/MDI-X	10/100 Mbps, auto MDI/MDI-X	10/100 Mbps, auto MDI/MDI-X
1 ch Master or Slave (Selectable)	1 ch Master or Slave (Selectable)	1 ch Master or Slave (Selectable)	1 ch Master or Slave (Selectable)	1 ch Master or Slave (Selectable)	1 ch Master or Slave (Selectable)	1 ch Master or Slave (Selectable)
OSDP V2 compliant	OSDP V2 compliant	OSDP V2 compliant	OSDP V2 compliant	OSDP V2 compliant	OSDP V2 compliant	OSDP V2 compliant
1 ch Input or Output (Selectable)	1 ch Input or Output (Selectable)	1 ch Input or Output (Selectable)	1 ch Input or Output (Selectable)	1 ch Input or Output (Selectable)	1 ch Input or Output (Selectable)	1 ch Input or Output (Selectable)
2 ch Input	2 ch Input	2 ch Input	2 ch Input	3 ch Input	2 ch Input	2 ch Input
1 Relay	1 Relay	1 Relay	1 Relay	1 Relay	1 Relay	1 Relay
-	-	-	USB 2.0 (Host)	USB 2.0 (Type C), only FW-Upgrade	-	-
1.2 GHz	1.2 GHz Quad Core	1.0 GHz	1.5 GHz Quad Core	1.2 GHz Single Core	1.0 GHz	533 MHz DSP
4 GB Flash + 64 MB RAM	2 GB Flash + 256 MB RAM	8 GB Flash + 64 MB RAM	16 GB Flash + 1 GB RAM	8 GB Flash + 256 MB RAM	4 GB Flash + 64 MB RAM	16 MB Flash + 16 MB RAM
Supported	Supported	Supported	Supported	Supported	Supported	Supported
16 bit	Multi-tone Buzzer	Multi-tone Buzzer	24 bit	Multi-tone Buzzer	Multi-tone Buzzer	Multi-tone Buzzer
BLN2-ODB, OAB: -20°C ~ 50°C (-4°F ~ 122°F) **BLN2-PAB**: -10°C ~ 50°C (14°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	**XPQ2-DB**: -20°C ~ 60°C (-4°F ~ 140°F) **XPQ2-DPB**: DC Power: -20°C ~ 60°C (-4°F ~ 140°F), PoE Power: -20°C ~ 50 °C (-4°F ~ 122°F)	-35°C ~ 65°C (-31°F ~ 149°F)	-35°C ~ 65°C (-31°F ~ 149°F)
Supported	Supported	Supported	Supported	Supported	Supported	Supported
Voltage: 12 Vdc, Current: Max. 0.4 A	Voltage: 12 Vdc, Current: Max. 0.5 A	Voltage: 12 Vdc, Current: Max. 0.2 A	Voltage: 12 Vdc, Current: Max. 0.8 A Voltage: 24 Vdc, Current: Max. 0.5 A	Voltage: 12 Vdc, Current: Max. 0.5 A Voltage: 24 Vdc, Current: Max. 0.3 A	Voltage: 12 Vdc, Current: Max. 0.5 A Voltage: 24 Vdc, Current: Max. 0.3 A	Voltage: 12 Vdc, Current: Max. 0.4 A
-	IEEE 802.3af compliant	-	IEEE 802.3af compliant	-	IEEE 802.3af compliant	-
58 x 190 x 44 (Bottom) / 34.6 (Top)	50 x 172 x 43.4 (Bottom) / 38.1 (Top)	50.1 x 164 x 38	**XS2-ODPB, OAPB**: 82 x 208.5 x 53 (Bottom) / 25.9 (Top) **XS2-DPB, APB**: 82 x 159 x 25.9	50 x 150 x 40.2	**XP2-MDPB, MAPB**: 48 x 144.7 x 27 **XP2-GDPB, GKDPB**: 80 x 130 x 25	80 x 120 x 11.4
CE, UKCA, KC, FCC, IC, RCM, BIS, SIG, RoHS, REACH, WEEE	**BEW2-OHPB,ODPB**: CE, UKCA, KC, FCC, IC, RCM, BIS, ANATEL, SIG, RoHS, REACH, WEEE **BEW2-OAPB**: CE, UKCA, KC, FCC, IC, RCM, BIS, ANATEL, SIG, RoHS, REACH, WEEE, ETL Listed to UL 294	CE, UKCA, KC, FCC, RCM, BIS, ANATEL, RoHS, REACH, WEEE	**XS2-ODPB, OAPB**: CE, UKCA, KC, FCC, IC, RCM, BIS, ANATEL, SIG, RoHS, REACH, WEEE **XS2-DPB, APB**: CE, UKCA, KC, FCC, IC, RCM, BIS, ANATEL, SIG, TELEC, RoHS, REACH, WEEE	CE, UKCA, KC, FCC, IC, RCM, SIG, RoHS, REACH, WEEE, EAC, TELEC	**XP2-MDPB, GDPB**: CE, UKCA, KC, FCC, IC, RCM, BIS, SIG, RoHS, REACH, WEEE, ETL Listed to UL 294 **XP2-GKDPB**: CE, UKCA, KC, FCC, IC, RCM, BIS, SIG, TELEC, RoHS, REACH, WEEE, ETL Listed to UL 294 **XP2-MAPB**: CE, UKCA, KC, FCC, RCM, SIG, RoHS, REACH, WEEE	CE, UKCA, KC, FCC, BIS, RoHS, REACH, WEEE

3) Some models (BEW2-ODP, BEW2-OAP, BEW2-OHP) do not support BLE.
4) Based on users registered without credentials.


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CS-20
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CoreStation
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DI-24
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IM-120
suprema
OM-120

Product			
Product Name		CoreStation (CS-40)	CoreStation 20 (CS-20 | CS-20P)
Capacity	Max. User	500,000	500,000
	Max. Credential (1:N)	Face: 4,000 Fingerprint: 100,000[5]	-
	Max. Credential (1:1)	Face: 30,000 Fingerprint: 500,000[5] Card: 500,000 PIN: 500,000	Card: 500,000 PIN: 500,000
	Max. Text Logs	5,000,000	5,000,000
Interfaces	Ethernet	10/100 Mbps, Auto MDI/MDI-X	10/100 Mbps, Auto MDI/MDI-X
	RS-485	5 ch	3 ch
	RS-485 Communication Protocol	OSDP V2 compliant	OSDP V2 compliant
	Wiegand	4 ch	2 ch
	Relay	4 Relays	4 Relays
	Supervised Input	8 ch (TTL Input Selectable)	6 ch
	Output	8 ch	6 ch
	AUX Input	2 ch (AC Power Fail, Tamper)	3 ch (AC Power Fail, Tamper, Fire)
	SAM Slot	-	- Supported
Connectivity	Max. Slave Devices (RS-485)	Max. 64 devices (Max. 31 devices per port)	Max. 4 devices
	Max. Wiegand Devices	Max. 132 devices (with DM-20)	Max. 2 devices
Hardware	CPU	1.4 GHz Octa Core	1.2 GHz Single Core
	Memory	8 GB Flash + 1 GB RAM	4 GB Flash + 256 MB RAM
	Crypto Chip	Supported	Supported
	LED	Multi-color	POWER: RED single-color STATUS: Multi-color
	Operating Temperature	0°C ~ 50°C (32°F ~ 122°F)	0°C ~ 50°C (32°F ~ 122°F)
	Tamper	Optional (ENCR-10)	-
	Power	Voltage: 12 Vdc, Current: Max. 0.2 A Voltage: 24 Vdc, Current: Max. 0.1 A	Voltage: 12 Vdc, Current: Max. 2.8 A Voltage: 24 Vdc, Current: Max. 1.4 A
	Dimensions (W x H x D mm)	150 x 214 x 21	100 x 190 x 33.9
	PoE+	-	- Supported
	Certifications	CE, UKCA, KC, FCC, RCM, RoHS, REACH, WEEE, ETL Listed to UL 294	CE, UKCA, KC, FCC, RCM, IC, RoHS, REACH, WEEE, EAC

Product			
Product Name		BioEntry R2	XPass D2
General	Biometrics	Fingerprint	-
	Protection Class	-	IP65, IP67, IK08
	RF Options	**BER2-OD**: 125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire EV1/EV2/EV3, FeliCa	**XPD2-MDB, GDB, GKDB**: 125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire, DESFire EV1/EV2/EV3, FeliCa
	Mobile	**BER2-OD**: NFC	**XPD2-MDB, GDB, GKDB**: NFC, BLE
Interfaces	RS-485	1 ch Slave	1 ch Slave
	RS-485 Communication Protocol	OSDP V2 compliant	OSDP V2 compliant
	Wiegand	-	1 ch
Hardware	CPU	1.0 GHz	80 MHz
	Memory	32 MB Flash + 32 MB RAM	512 KB Flash + 160 KB RAM
	Sound	Multi-tone Buzzer	Multi-tone Buzzer
	Operating Temperature	-20°C ~ 50°C (-4°F ~ 122°F)	-35°C ~ 65°C (-31°F ~ 149°F)
	Tamper	Supported	Supported
	Power	Voltage: 12 Vdc, Current: Max. 0.2 A	Voltage: 12 Vdc, Current: Max. 0.3 A
	Dimensions (W x H x D mm)	50.1 x 164 x 38	**XPD2-MDB**: 48 x 144.7 x 27 **XPD2-GDB, GKDB**: 80 x 130 x 25
	Certifications	CE, UKCA, KC, FCC, RoHS, REACH, WEEE	CE, UKCA, KC, FCC, IC, RCM, BIS, SIG, RoHS, REACH, WEEE, ETL Listed to UL 294

Product					
Product Name		Input Module (IM-120)	Output Module (OM-120)	Door Interface Module (DI-24)	Secure Module (Secure I/O 2)
Interfaces	RS-485	1 ch	1 ch	3 ch	1 ch
	RS-485 Communication Protocol	OSDP V2 compliant	OSDP V2 compliant	OSDP V2 compliant	OSDP V2 compliant
	Wiegand	-	-	2 ch	-
	Relay	2 Relays	12 Relays	4 Relays	1 Relay
	Input	Supervised Input: 12 ch (TTL Input Selectable)	-	6 ch	TTL Input: 2 ch
	Output	-	-	6 ch	-
	AUX Input	2 ch (AC POWER FAIL)	2 ch Dry Contact Input	3 ch (AC POWER FAIL, Tamper, Fire)	-
Hardware	CPU	Cortex M3 72MHz	Cortex M3 72MHz	1.2 GHz Single Core	Cortex M3 72MHz
	Memory	512 KB Flash + 64 KB SRAM	128 KB Flash + 20 KB SRAM	4 GB Flash + 256 MB RAM	128 KB Flash + 20 KB RAM
	LED	Multi-color	Multi-color	POWER: RED single-color STATUS: Multi-color	Multi-color
	Operating Temperature	-20°C ~ 60°C (-4°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)	0°C ~ 50°C (32°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)
	Power	Voltage: 12 Vdc, Current: Max. 0.2 A	Voltage: 12 Vdc, Current: Max. 0.6 A	Voltage: 12 Vdc, Current: Max. 2.8 A Voltage: 24 Vdc, Current: Max. 1.4 A	Voltage: 12 Vdc, Current: Max. 0.5 A
	Dimensions (W x H x D mm)	90 x 190 x 21	90 x 190 x 21	100 x 190 x 33.9	36 x 65 x 18
	Certifications	CE, UKCA, KC, FCC, RCM, RoHS, REACH, WEEE	CE, UKCA, KC, FCC, RoHS, REACH, WEEE	CE, UKCA, KC, FCC, RCM, IC, RoHS, REACH, WEEE, EAC	CE, UKCA, KC, FCC, RoHS, REACH, WEEE, ETL Listed to UL 294

5) If a device with a fingerprint sensor is connected as a slave, the slave device can be used for fingerprint authentication.



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https://www.supremainc.com/en/about/contact-us.asp

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