

BioEntry R2

Compact Fingerprint Reader



Suprema BioEntry R2 is a compact fingerprint reader exclusively designed for centralized access control systems. Packed in a slim, mullion-type design, BioEntry R2 provides high-definition fingerprint image capture, minutiae extraction as well as dual-frequency multi RF card reading capability. Combined with Suprema's intelligent biometric controller, the CoreStation, BioEntry R2 completes biometrics-driven access control system with enhanced simplicity and level of security of centralized system topology.

BioEntry R2

Compact Fingerprint Reader

Features



Multi RFID card reading

- LF(125kHz), HF(13.56MHz) dual-band
- Reads all primary card types (EM, MIFARE, MIFARE Plus, DESFire EV1/EV2, FeliCa, NFC)



Field-proven fingerprint technology

- Latest Suprema fingerprint algorithm
- High-precision OP5 optical sensor



Standardized communication

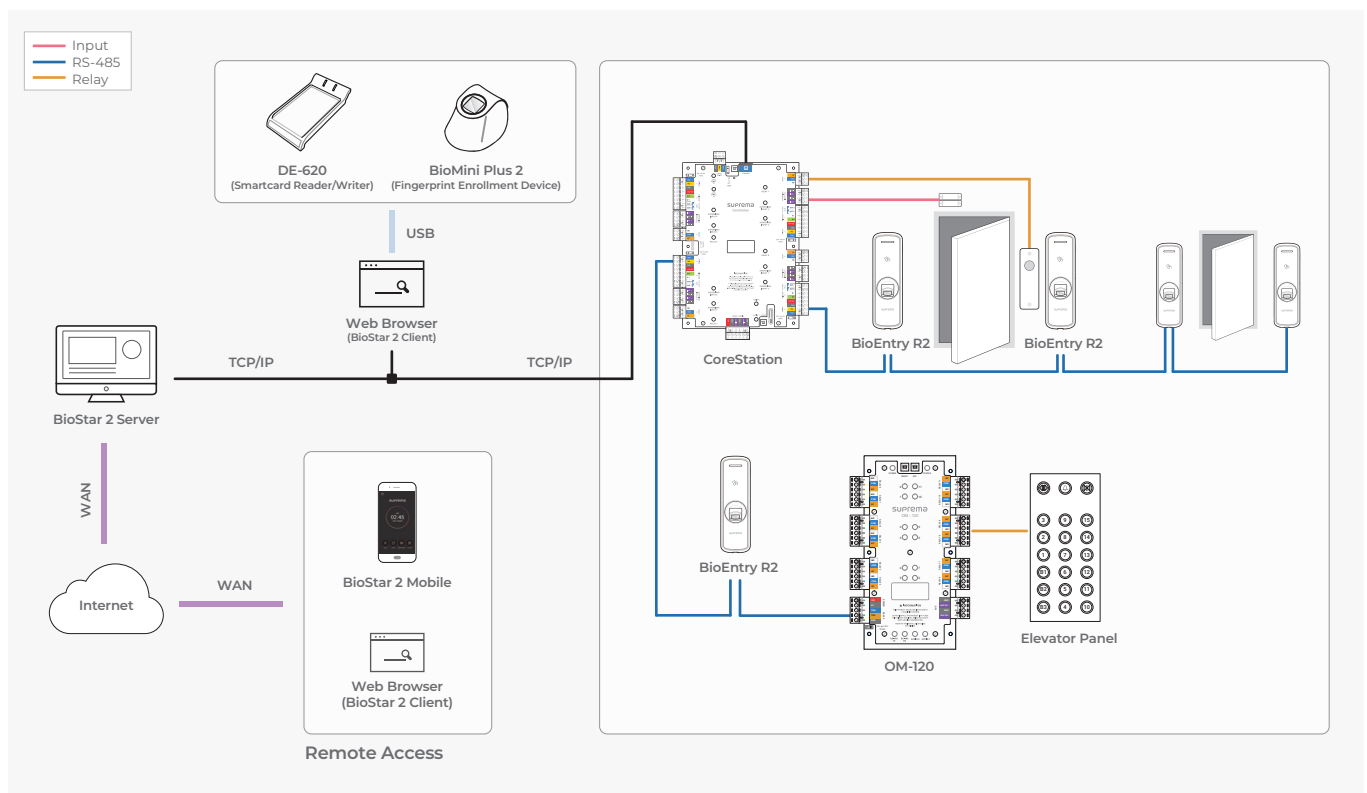
- Open Supervised Device Protocol (OSDP)

Specifications

Model Name	BER2-OD
Biometric	Fingerprint
Sensor Type	Optical Sensor (OP6)
Template	SUPREMA / ISO 19794-2 / ANSI 378
Extractor / Matcher	MINEX certified and compliant
RF Option	125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire EV1/EV2*, FeliCa, NFC
CPU	1.0 GHz
Memory	32MB Flash + 32MB RAM
LED	Multi-Color
Sound	Multi-tone Buzzer
RS-485	1ch Slave, OSDP V2.1.6
Tamper	Supported
Power	DC 12V
Operating Temperature	-20°C ~ 50°C
Operating Humidity	0% ~ 80%, non-condensing
Dimensions (WxHxD, mm)	50 x 164 x 37.5
Weight	158g
Certificates	CE, FCC, KC, RoHS, REACH, WEEE

* DESFire EV2 cards are supported by having backward compatibility of DESFire EV1 cards. CSN and smart card functions are compatible with BioEntry R2.

System Configurations



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For more information about Suprema's global branch offices, visit the webpage below by scanning the QR code.
<https://www.supremainc.com/en/about/contact-us.asp>

Suprema Contactless Solution

- Face Recognition Terminal
- Mobile Access Solution
- Thermal Camera Integration



Suprema Contactless Solution JUST LOOK & GO

- High Speed Face Matching
- Live Face Detection
- Proven Security Performance



FaceStation 2

Smart Face Recognition Terminal



- Matching Speed: 1:3,000 match/sec
 - Group Matching: 1:5,000 match/sec
- User Capacity: Max 30,000 users (1:1), 3,000 users (1:N)
- Operating illuminance from 0 lx to 25,000 lx
- Live face detection: IR-based image analysis to prevent
- Extended height range: 145cm ~ 210cm
- 4" color TFT LCD(800x480 pixels)
- 1.4 GHz Quad Core, 8GB Flash + 1GB RAM
- Suprema Mobile Access : NFC & BLE (will be supported)

FaceLite

Compact Face Recognition Terminal



- Matching Speed: 1:3,000 match/sec
 - Group Matching: 1:5,000 match/sec
- User Capacity: Max 30,000 users (1:1), 3,000 users (1:N)
- Covers complete darkness to all indoor lighting conditions (0lx ~ 25,000lx)
- IR-based Live Face Detection(LFD); prevent spoofing by printed images and LCDs
- Secured communication with TLS 1.2
- 2" color TFT LCD
- 1.2 GHz Quad Core, 8GB Flash + 1GB RAM
- Suprema Mobile Access : NFC & BLE (will be supported)

Suprema Mobile Access JUST TAP & GO

Suprema Mobile Access allows you to use your own smart phone as a key to access doors, facilities and more. By using your smartphone as a credential, managing and using an access card becomes easier, faster and safer.

Card
Fast and easy contactless solution

NFC
Enhanced mobile compatibility with iOS and Android

Portal
Remote management via web portal

Contactless mobile solution compatible with iOS and Android

Suprema Mobile Access supports both NFC and BLE(Bluetooth Low Energy) for full compatibility with various types of smartphones.

Prevents unintentional opening
20cm~

Works only within
10cm

Works only within
10cm

1Sec

Screen does not necessarily have to be ON*

Fast and Accurate
Prevents unintentional openings by controlling BLE communication distance, allowing authentication times of less than a second

BLE Background mode
Works seamlessly without waking up your smartphone

*If the app is running in the background (BLE, Standby mode)

Remote and Contactless

Suprema makes it easier to issue and revoke a mobile access card by sending an email to users.

Suprema AirFob Portal

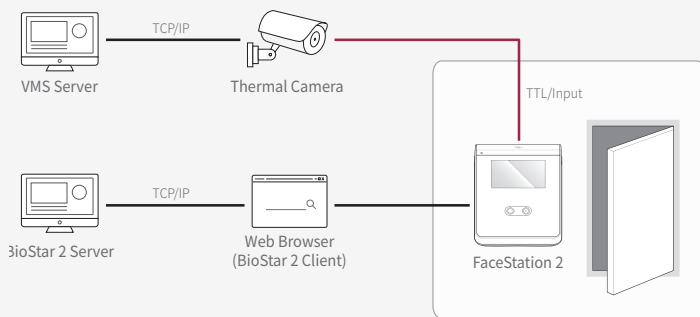
Suprema AirFob Pass App

- Saves cost of issuing cards and maintenance in comparison to physical cards
- Protects your data with ISO 27001 certified system architecture

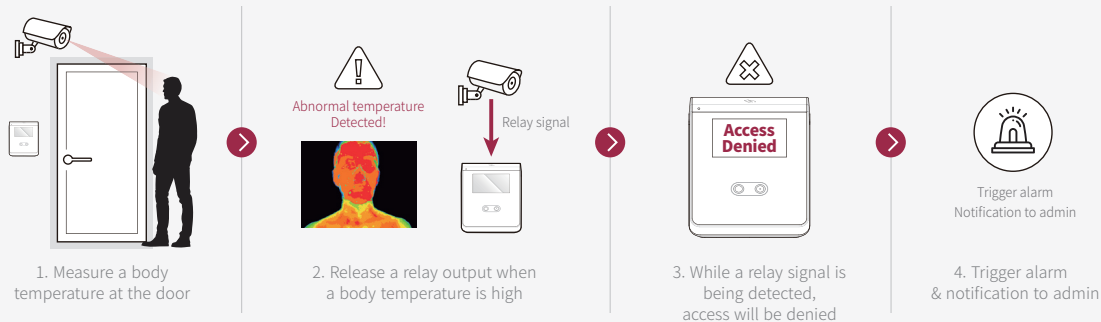
Thermal camera integration With Suprema access control system

- Detect suspected infections through thermal imaging camera
- Support fast, easy and safe verification with Suprema Contactless Solution
- Operate directly by adding a thermal imaging camera without major changes in existing system

System Configuration



Operation example



Recommended camera

To use this solution, a thermal camera with below specifications are required.

- Capable of Measuring body temperature precisely
- Capable of configuring to release a relay signal when it detects certain level of body temperature
- IO interface for relay signal
- Capable of configuring to relay output duration



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FaceLite

Compact Face Recognition Terminal



Suprema FaceLite is the most compact face recognition terminal providing loads of the world's best features. Powered by Suprema's latest innovation in facial biometrics, FaceLite offers unrivaled matching speed, accuracy, and level of security. With Suprema's patented optic engineering, FaceLite achieves up to 25,000 lx of operating illuminance which in turn, brings all-around confidence regardless of lighting conditions. Packed in a compact and an ergonomically-designed structure, FaceLite provides exceptional performance and usability for diverse access control and time attendance sites, large or small.

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Features



Ultra Performance

- Matching Speed: 1:4,000 match/sec
- Group Matching: 1:5,000 match/sec
- User Capacity: Max 30,000 users (1:1), 4,000 users (1:N)



25,000 lx

Highest Operating Illuminance

- Operating illuminance from 0lx to 25,000lx
- Covers complete darkness to all indoor lighting conditions



Enhanced Security

- IR-based Live Face Detection(LFD); Prevent spoofing by printed images and LCDs
- Face template encryption
- Secured communication with TLS 1.2



Multi RFID Card Reading

- LF(125kHz), HF(13.56MHz) dual-band
- Reads all card types including Mobile Card (NFC and BLE)



Ergonomics & User Convenience

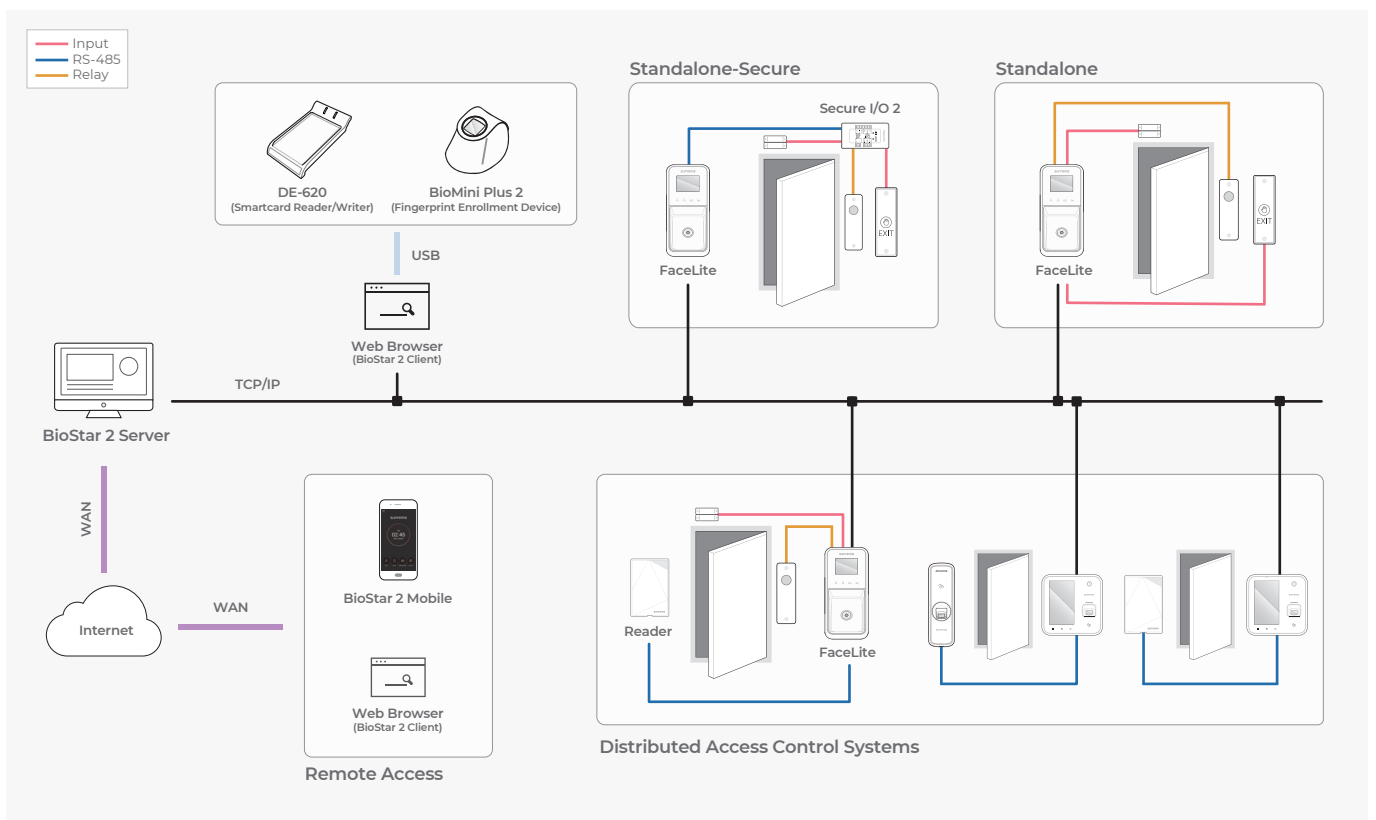
- Extended height range: 145cm – 210cm
- Improved face enrollment procedure

Specifications

Model Name	FL-DB
Biometric	Face
RF Options	125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire EV1/EV2*, FeliCa
Mobile Card	NFC, BLE
Max. User	30,000(1:1), 4,000(1:N)
Max. Log	5,000,000
Ethernet	10/100Mbps, auto MDI/MDI-X
RS-485	1ch Host or Slave (Selectable)
Wiegand	1ch Input or Output (Selectable)
TTL	2ch Inputs
Relay	1 Relay
Tamper	Supported
CPU	1.2GHz Quad Core
Memory	8GB Flash + 1GB RAM
Operating Temperature	-20°C ~ 50°C
Dimensions (WxHxD, mm)	80 x 170 x 76
Power	DC 24V
Certificates	CE, FCC, KC, RoHS, REACH, WEEE, BT SIG

* DESFire EV2 cards are supported by having backward compatibility of DESFire EV1 cards. CSN and smart card functions are compatible with FaceLite.

System Configurations



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FaceStation F2

Fusion Multimodal Terminal



Unrivaled
Face Recognition
Performance



Best-in-class
Multimodal Device



Contactless Solution
for the New Normal



Robust Device Security and
Data Encryption

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Unrivaled face recognition performance by Fusion Matching

FaceStation F2 boasts exceptional authentication accuracy achieved by the fusion matching of visual and infrared(IR) face recognition.

*False Acceptance Rate(FAR) of 1 in 10 billion.



- Suprema's unique algorithm optimizes IR and visual face recognition to produce the industry's best face recognition and anti-spoofing performance
- Proven track record of authentication performance regardless of user ethnicity and face changes powered by deep learning algorithm

Best-in-class multimodal with various credentials

FaceStation F2 offers a wide range of authentication options including face, mobile access, fingerprint and cards.



Face



Fingerprint



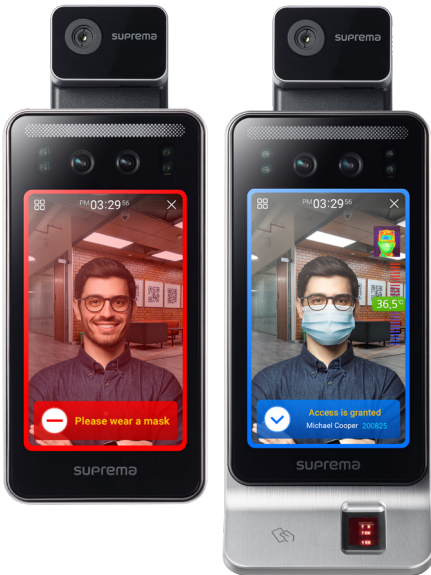
Mobile Access



Card

- Register up to 100,000 users for fingerprints authentication and 50,000 users for face authentication
- Supports dual frequency access cards, NFC and BLE-based Mobile Access Cards
- Template-on-Card allows authentication via biometric data stored in cards

AI Deep learning-based AI algorithm applied for live face/fingerprint detection



Contactless solution for new standards of safety and hygiene

FaceStation F2 meets the needs of the post-pandemic world with remote and contactless solution.

- Detects and limits access of users not wearing masks
- Face recognition of users wearing masks
- Remote user enrollment through profile photo uploads
- Combines with Suprema Thermal Camera to identify users with elevated skin temperature

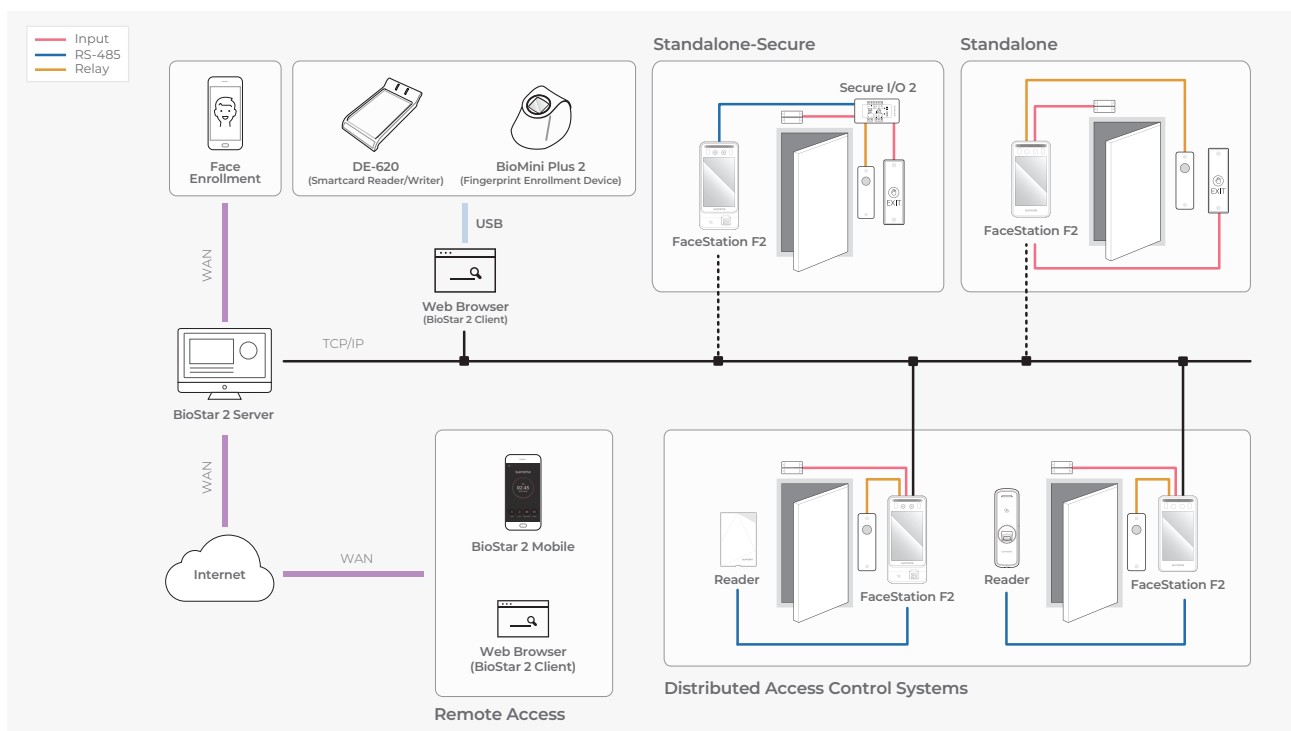
Robust device security and data encryption

FaceStation F2 is equipped with security measures to protect user data.

- Highest level of device security including secure booting process
- Encrypts all biometric credentials and personal information



System Configurations



Product Specification



Category	Feature	FSF2-DB	FSF2-AB	FSF2-ODB	
Credential	Biometric	Face		Face, Fingerprint	
	RF Option	125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire EV1/EV2 ⁽¹⁾ , FeliCa	125kHz EM, HID Prox & 13.56MHz MIFARE, MIFARE Plus, DESFire EV1/EV2 ⁽¹⁾ , FeliCa, iCLASS SE/SR/Seos	125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire EV1/EV2 ⁽¹⁾ , FeliCa	
	RF Read Range ⁽²⁾	EM/MIFARE/DESFire : 50 mm (2"), FeliCa: 30 mm (1.2")			
	Mobile	NFC, BLE			
General	CPU	1.8 GHz Dual Core + 1.4 GHz Quad Core			
	Memory	16GB Flash + 2GB RAM			
	LCD Type	7" IPS color LCD			
	LCD Resolution	800 x 1280 pixels			
	Sound	16bit			
	Operating Temperature	-20°C ~ 50°C (-68°F ~ 122°F)			
	Operating Humidity	0% ~ 80%, non-condensing			
	Dimension (W x H x D)	119.8mm x 223mm x 23.5mm (4.7" x 8.8" x 0.9")		119.8mm x 268.4mm x 49.7mm (4.7" x 10.6" x 1.9")	
	Weight	Device	585g		670g
		Bracket (Including washer and bolt)	181g		205g
	IP Rating	IP65			
Certificates	CE, FCC, KC, RoHS, REACH, WEEE				
Face	Recognition Distance	0.5m ~ 1.3m (19.7" ~ 51.2")			
	Recognition Height	140cm ~ 190cm (55.1" ~ 74.8")			
	Matching Speed	Less than 0.5 sec			
	Live Face Detection (Anti-Spoofing)	Supported			
Fingerprint	Image Dimension			300 x 400 pixels	
	Resolution			500 dpi	
	Template			SUPREMA / ISO19794-2, ANSI-378	
	Extractor / Matcher	N/A		MINEX certified and compliant	
	Sensor Certificates			FBI PIV and FBI Mobile ID FAP20	
	Live Fingerprint Detection			Supported (Deep learning-based)	
Capacity	Max. User (1:1) * Based on one face/fingerprint enrollment per user	100,000			
	Max. User (1:N) * Based on one face/fingerprint enrollment per user	Face: 50,000		Face: 50,000 Fingerprint: 100,000	
	Max. Text Log	5,000,000			
	Max. Image Log	50,000			
Interface	Ethernet	10/100 Mbps, auto MDI/MDIX			
	RS-485	1ch Host or Slave (Selectable)			
	Wiegand	1ch Input or Output (Selectable)			
	TTL Input	2ch Inputs			
	Relay	1 Relay			
	USB	USB 2.0 (Host)			
	Tamper	Supported			
Power	Voltage: DC 12V ~ DC 24V Current: Max. 2.5 A * Use a 24V/2.5A adapter. Must follow the product manual when using a 12V adapter.				

⁽¹⁾ DESFire EV2 cards are supported by having backward compatibility of DESFire EV1 cards. CSN and smart card functions are compatible with FaceStation F2.

⁽²⁾ RF read range will vary depending on the installation environment.



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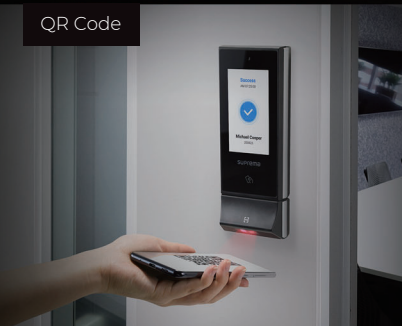
X-Station 2

Versatile Intelligent Terminal

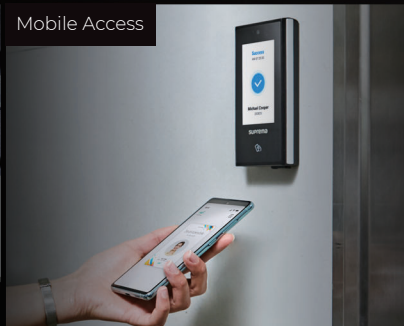


Suprema X-Station 2 is a versatile intelligent terminal that supports various credentials, such as QR codes, Mobile Access, RFID cards and fingerprints, offering the ultimate flexibility in terms of credential options and system design.

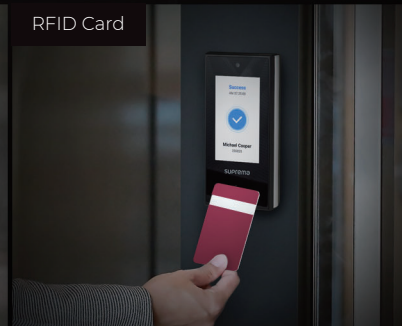
QR Code



Mobile Access



RFID Card



Fingerprint



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X-Station 2

Versatile Intelligent Terminal

Benefits at a glance

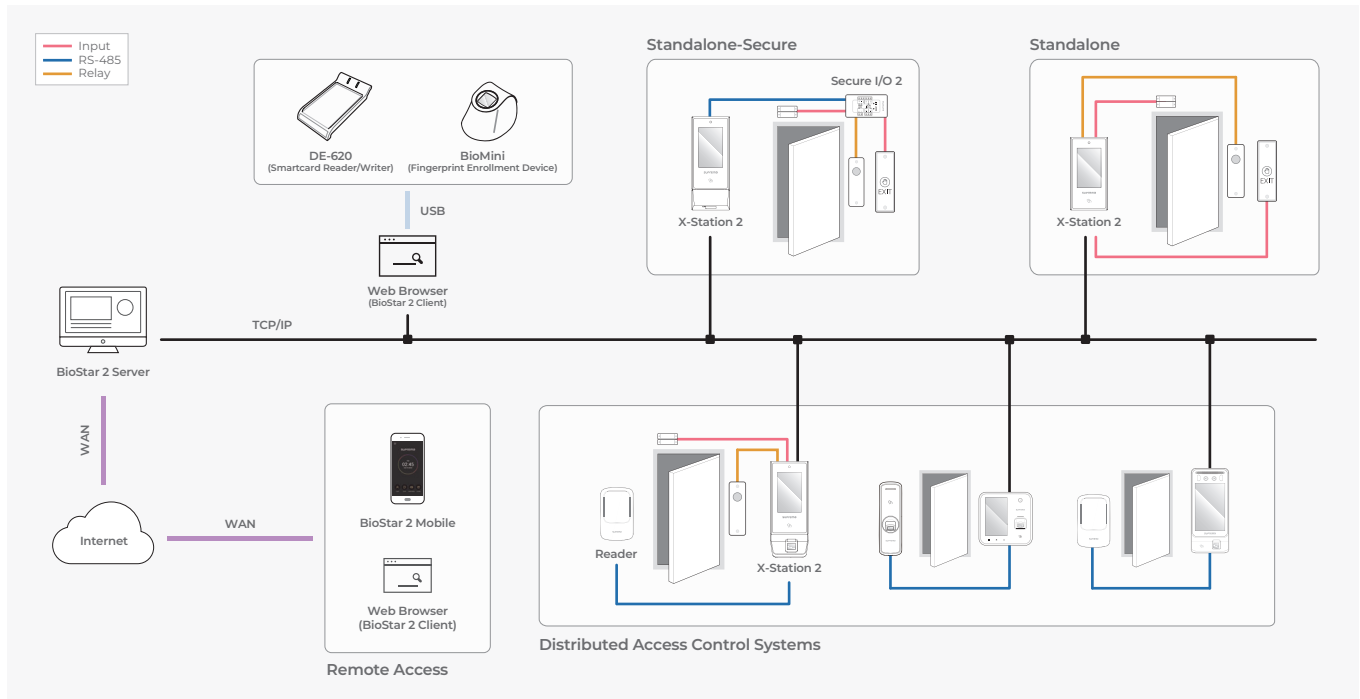
- 
Multi-technology Terminal with Various Credential Options
 - Multiple credential options of QR codes, Mobile Access, RFID cards and fingerprints can provide maximum system design flexibility
 - Go mobile, card-less and carefree by using smartphones as credentials
- 
Leading-edge Fingerprint Recognition
 - MINEX-Certified Algorithm
 - Fake/Live Finger Detection
 - Max. Credential: 100,000 (1:N)
- 
Comprehensive RFID Card Compatibility
 - LF (125 kHz), HF (13.56 MHz) dual-band
 - Reads various card types (EM/MIFARE/iCLASS/DESFire/FeliCa)
- 
Enhanced Security and Data Protection
 - Protects data with secure boot process
 - Built-in camera captures image logs for added security
 - Open Supervised Device Protocol (OSDP) for secure bidirectional communication between the terminal and controller
- 
Designed for easy deployment and management
 - Power over Ethernet (PoE) enables convenient installation with less wiring
 - Dust-tight and waterproof IP65 protection
- 
Improved Usability of Intuitive UI on Touchscreen
 - Quick and easy access to features on 4" wide capacitive touchscreen
 - Customizable display on intuitive GUI
- 
Expanded Capacity for more users and security logs
 - Max. 500k users, 5 million text logs, 50k image logs
 - Large memory: 16 GB Flash + 1 GB RAM

Specifications

Model Name	XS2-DPB	XS2-QDPB	XS2-ODPB	XS2-APB	XS2-QAPB	XS2-OAPB
RF Option	125 kHz EM & 13.56 MHz MIFARE, MIFARE Plus, DESFire EV1/EV2 [®] , FeliCa			125 kHz EM, HID Prox & 13.56 MHz MIFARE, MIFARE Plus, DESFire EV1/EV2 [®] , FeliCa, iCLASS SE/SR/Seos		
Mobile Card	NFC, BLE					
QR/Barcode	N/A	Supported ^②	N/A	N/A	Supported ^②	N/A
Biometrics	N/A	N/A	Fingerprint	N/A	N/A	Fingerprint
Scrambled Keypad (PIN)	Supported					
CPU	1.5 GHz Quad Core					
Memory	16 GB Flash + 1 GB RAM					
Crypto Chip	Supported					
Max. User	500,000 ^③					
Max. Credential (1:N)	N/A	N/A	100,000	N/A	N/A	100,000
Max. Credential (1:1)	Card: 500,000 PIN: 500,000	Card: 500,000 PIN: 500,000	Fingerprint: 500,000 Card: 500,000 PIN: 500,000	Card: 500,000 PIN: 500,000	Card: 500,000 PIN: 500,000	Fingerprint: 500,000 Card: 500,000 PIN: 500,000
Max. Logs	Text 5,000,000 / Image 50,000					
LCD	4" IPS color LCD / 480 x 800 pixels					
Camera	CMOS 2M pixels / 1600 x 1200					
Ethernet	Supported (10/100 Mbps, auto MDI/MDI-X)					
RS-485	1 ch Host or Slave (Selectable)					
Wiegand	1 ch Input or Output (Selectable)					
TTL	2 ch Inputs					
Relay	1 Relay					
USB	USB 2.0 (Host)					
PoE	Supported (IEEE 802.3af compliant)					
IP Rating	IP65					
Tamper	Supported					
Power	DC 12 V (Max. 0.8 A) or DC 24 V (Max. 0.45 A)					
Dimensions (W x H x D, mm)	82 mm x 159 mm x 25.9 mm	82 mm x 203 mm x 33.9 mm	82 mm x 208.5 mm x 25.9(53) mm	82 mm x 159 mm x 25.9 mm	82 mm x 203 mm x 33.9 mm	82 mm x 208.5 mm x 25.9(53) mm
Operating Temperature	-20°C~50°C (-4°F~122°F)					
Certificates	KC, CE, UKCA, FCC, RCM (Compliance: RoHS, REACH, WEEE)					

^① DESFire EV2 cards are supported by having backward compatibility of DESFire EV1 cards. CSN and smart card functions are compatible with X-Station 2.
^② Supports QR/Barcodes composed of up to 32 ASCII code strings. QR codes can be issued on Suprema BioStar 2 or 3rd party systems.
^③ The number of users registered without having any credential data.

System Configurations



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