EBSFF850

Fingerprint & Facial Recognition Device

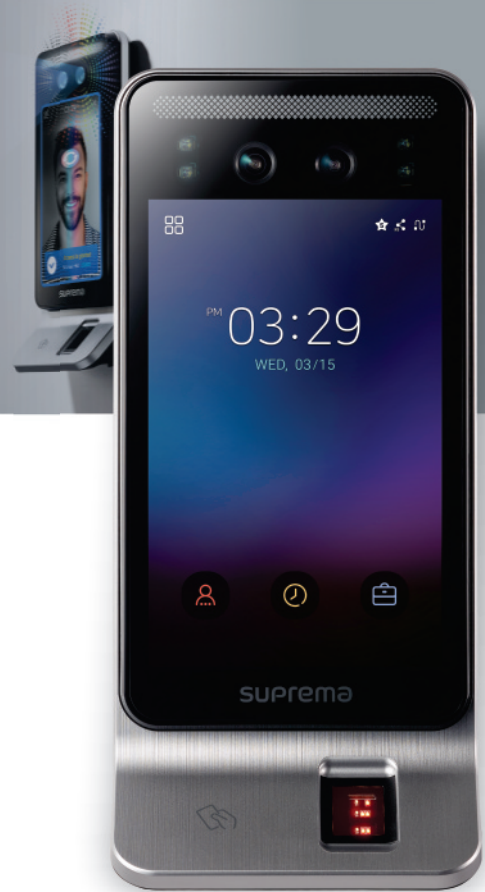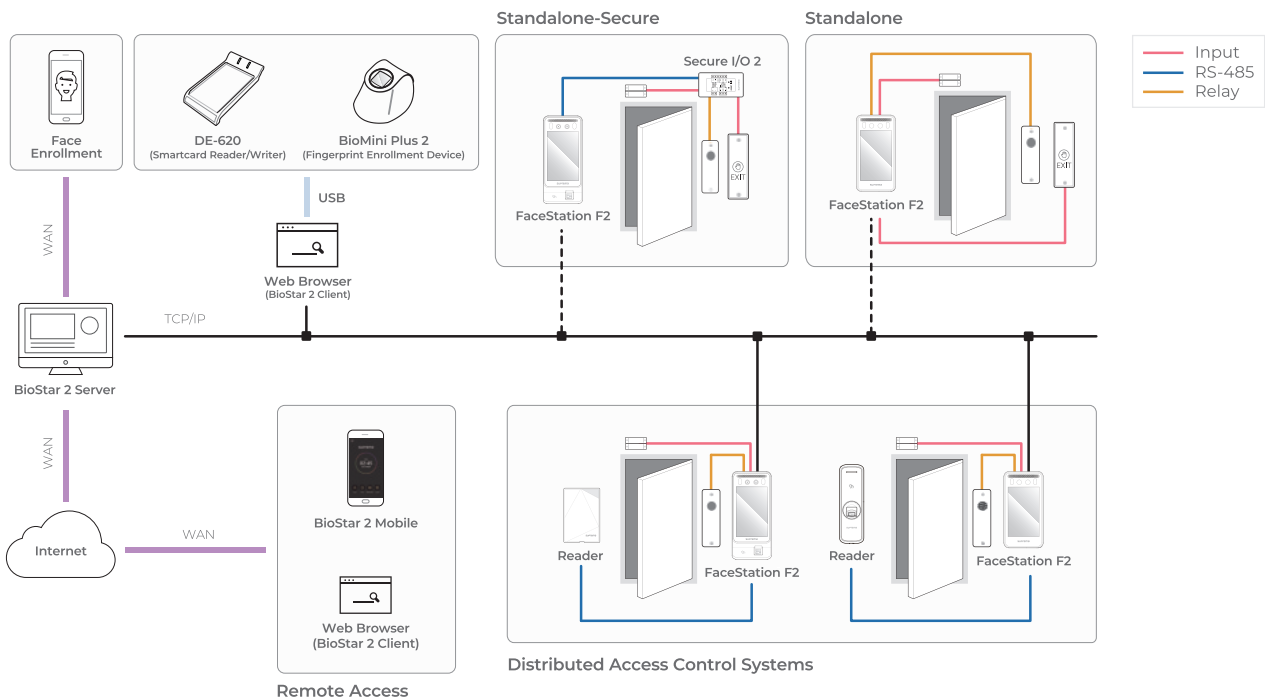IP65 | FACIAL | FINGERPRINT | CARD

The EBSFF850 boasts exceptional authentication accuracy achieved by the fusion matching of visual and infrared(IR) face recognition.

FEATURES

- Anti-spoofing via IR-Based Live Face Detection
- Encrypts all biometric credentials and personal information

SYSTEM CONFIGURATIONS

Face Enrollment

DE-620 (Smartcard Reader/Writer)

BioMini Plus 2 (Fingerprint Enrollment Device)

USB

Web Browser (BioStar 2 Client)

WAN

TCP/IP

BioStar 2 Server

WAN

Internet

WAN

BioStar 2 Mobile

Web Browser (BioStar 2 Client)

Remote Access

Standalone-Secure

Secure I/O 2

FaceStation F2

Standalone

FaceStation F2

Input
RS-485
Relay

Reader

FaceStation F2

Reader

FaceStation F2

Distributed Access Control Systems

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OPTIONAL ADD-ON

The EBSFF850 rain shield.

Infrared face recognition

Fusion matching

Visual face recognition

Category	Feature	
Credential	Biometric	Face, Fingerprint
	RF Option	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 268.4mm x 49.7mm (4.7" x 10.6" x 1.9")
	Weight — Device	670g
	Weight — Bracket (Including washer and bolt)	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	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 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.

CLIENT REQUIREMENTS

- Dedicated Plug point within 3 meters
- Surge Protector on the outlets where devices will be plugged
- Backup power onsite in case of power outage
- LAN connection, LAN Cable is needed with RJ45 pulled to device connection point
- Non conflicting IP Address, Subnet Mask and Gateway for LAN connection

3RD PARTY SERVER REQUIREMENTS

Please be advised that this device does not link directly to the online ERSBio portal and will connect via Suprema integration software installed on a designated pc/server that needs to meet the below requirements:

Operating System:	Windows 10/ Windows Server 2008/ Windows Server 2012/ Windows Server 2016/ Windows Server 2019 64-bit
Supported Databases:	PostgreSQL/ MS SQL Server/ Oracle
Recommended Browser Versions:	Internet Explorer 11+/ FireFox 27+/ Chrome 33+
CPU:	Dual core processor with speeds of at least 2.4GHz
Memory:	8GB or above
Storage:	50GB free space or larger (NFTS Recommended)
Monitor Resolution:	1024x796 or above
Internet Speed:	Minimum 20 MegaBytes/s download and 10 MegaBytes/s Upload speed (consistent speeds required)