



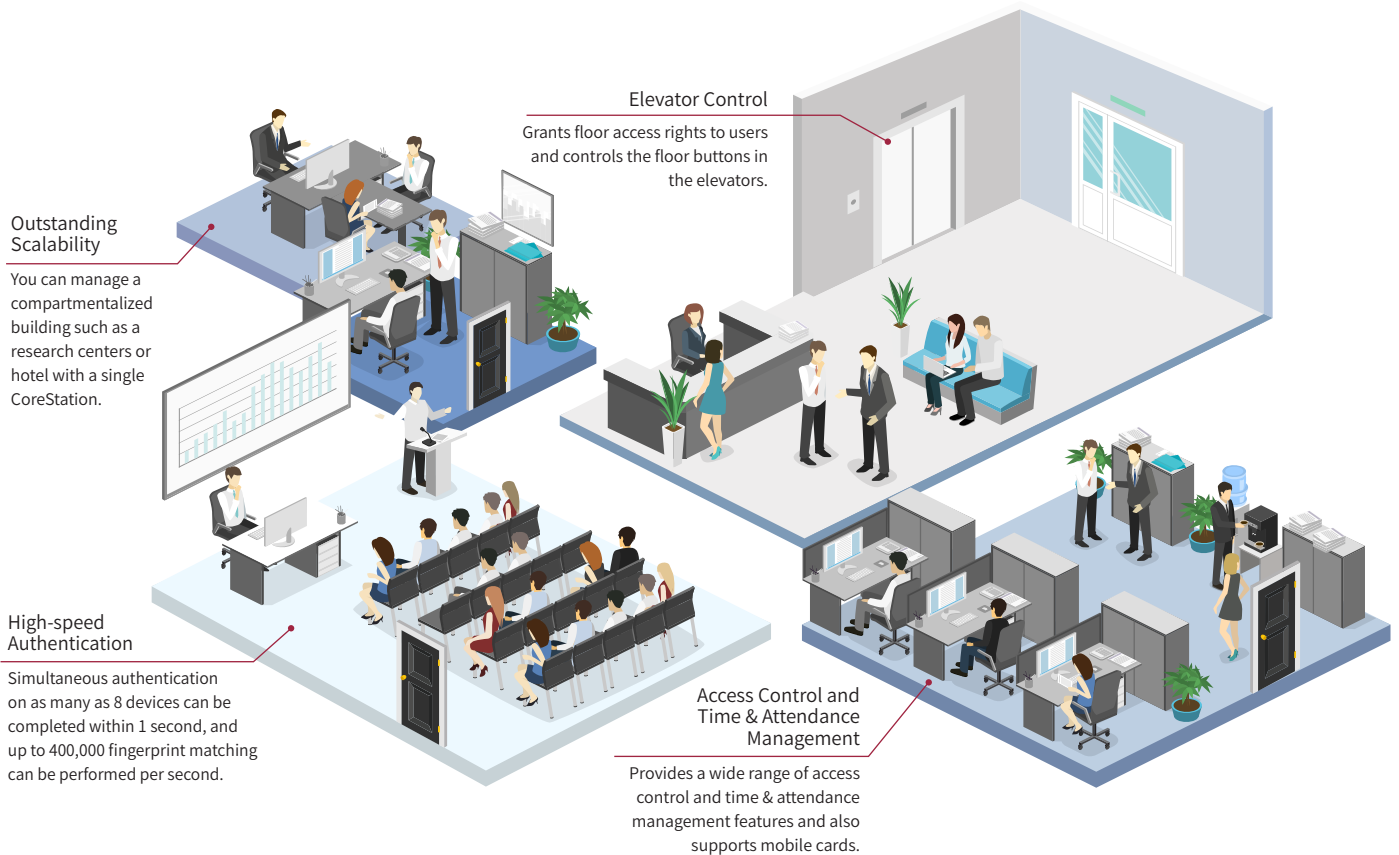
# Centralized System | Access Control and Time & Attendance Management

With Suprema's CoreStation and readers, you can build a centralized system, which is a system based on access control units (ACU). Suprema's centralized system not only provides the benefits of biometrics, but it also provides enhanced security and excellent system scalability. In addition, the centralized system also enables you to upgrade your existing systems at lower installation cost. Integrated with BioStar 2, this system safely stores all information about each user including the user's name, ID, PIN, access rights and fingerprint data by storing it on a single device. Suprema's intelligent biometric controller, CoreStation, is capable of performing fingerprint matching as well as RFID cards. It provides differentiated performance and features based on a 4-channel module that boasts superior hardware performance and scalability.

## Strength in numbers

- Performs 400,000 times of fingerprint matching within 1 second
- Stores information about up to 500,000 users and RFID cards
- Stores up to 5,000,000 text logs
- Controls up to 132 Wiegand devices (DM-20 connection required)
- Controls up to 64 RS-485 devices
- Processes fingerprint authentication on up to 8 devices simultaneously within 1 second

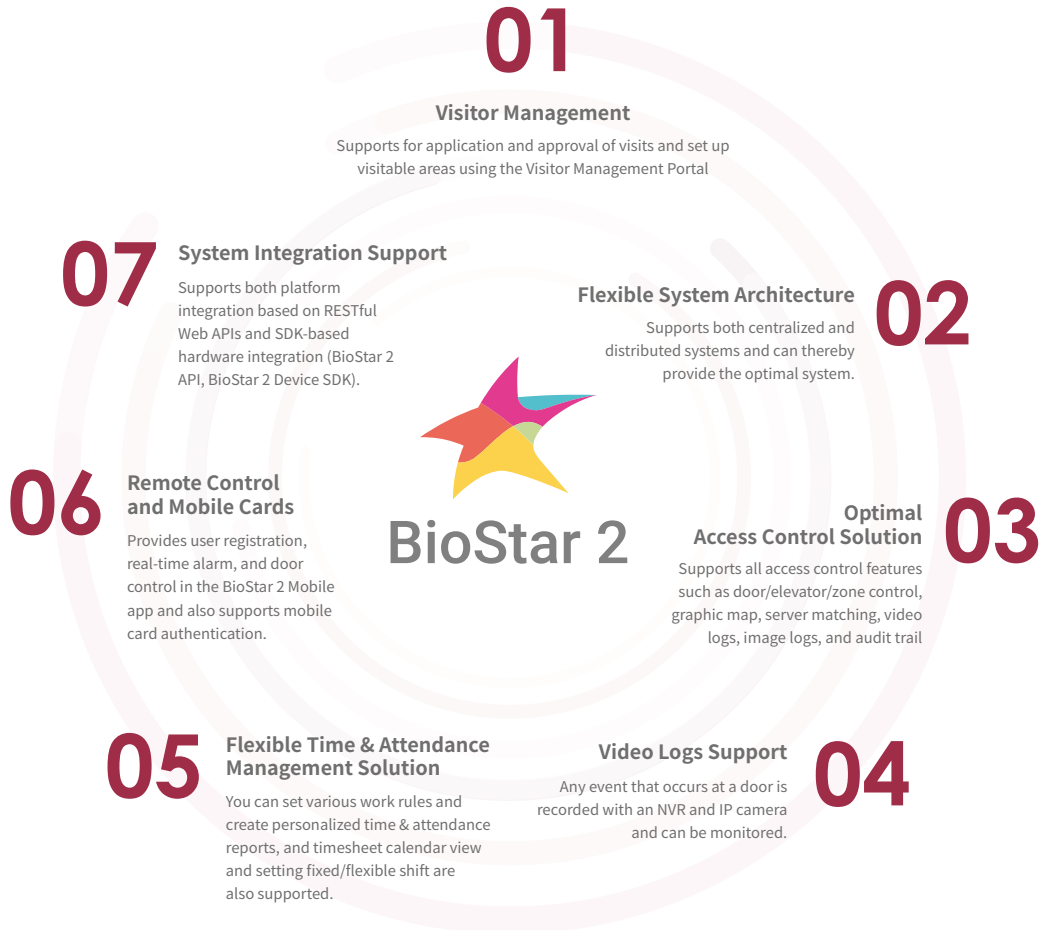
CoreStation Specs.	
CPU	1.4 GHz Octa Core
Memory	8 GB Flash + 1 GB RAM
Maximum No. of Users	500,000 (1:1) and 100,000 (1:N)
Maximum No. of Templates	1,000,000 (1:1) and 200,000 (1: N)*
Maximum No. of Text Logs	5,000,000 (text)
Serial Communication Protocol	OSDP V2
Ethernet	10/100 Mbps and Auto MDI/MDI-X
RS-485	5ch
Wiegand	4ch Input
Relay	4 Relays
TTL Input	8ch (Supervised input selectable)
TTL Output	8ch
AUX Input	2ch (AC power fail and tamper)



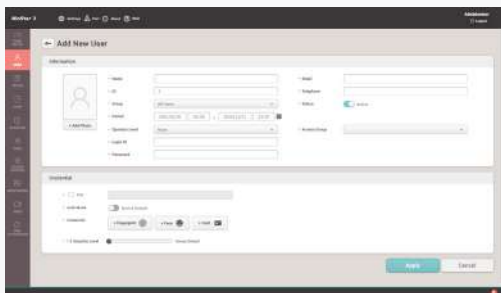
Supported Products					Accessory
					
Intelligent Biometric Controller <b>CoreStation</b>	Compact Fingerprint Reader <b>BioEntry R2</b>	Outdoor Compact RFID Reader <b>XPass D2</b>	Secure Multi-output Module <b>OM-120</b>	Secure Multi-door I/O Module <b>DM-20</b>	Dedicated Cabinet <b>ENCR-10</b>

# BioStar 2 Platform

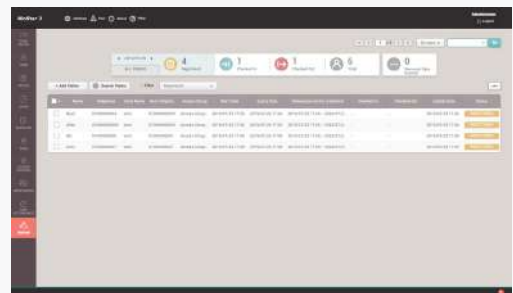
BioStar 2 is a web-based, open, and integrated security platform that provides comprehensive functionality for access control and time & attendance. Featuring a modular, flexible framework, the platform supports both the BioStar 2 Device SDK which is used to integrate Suprema's terminals with third-party systems and web APIs which are used to integrate the functionality of the BioStar 2 platform with third-party systems. In addition, in step with the mobile era, the mobile app for BioStar 2 has been designed to enable you not only to remotely control the BioStar 2 platform but also to get a mobile card issued to you for use.



Subdivided user information registration



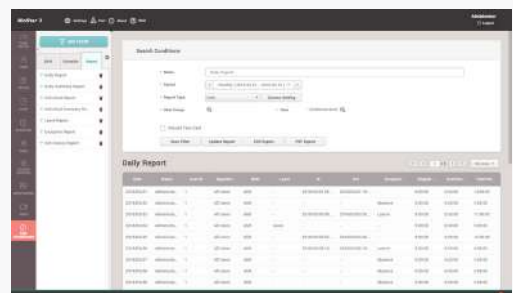
Visitor Management Portal



Enhanced monitoring capabilities



Multi-functional time & attendance management reports



# Distributed System | Access Control and Time & Attendance Management

In distributed systems, IP terminal and readers perform the roles of a controller and reader simultaneously.

Therefore, you can undertake functions such as user management, access control management, and biometrics with a single terminal. Suprema's IP terminals and readers improve system reliability with easy system configuration and distributed management. It also provides the benefits of simple wiring and low installation/maintenance costs.



Supported Products				
				
IP Face Recognition Terminal FaceStation 2	Compact IP Face Recognition Terminal FaceLite	IP Fingerprint Terminal BioStation A2	Outdoor IP Fingerprint Terminal BioStation 2	IP Fingerprint Terminal BioStation L2
				
Outdoor IP Fingerprint Terminal BioLite N2	Outdoor IP Fingerprint Device BioEntry W2	Compact IP Fingerprint Device BioEntry P2	Outdoor Compact RFID Device XPass 2	IP RFID Terminal Xpass
				
IP RFID Terminal Xpass S2	Secure Door Control Module Secure I/O 2	Secure Multi-output Module OM-120		

# BioStar 2 Mobile

BioStar 2 Mobile enables you to freely control BioStar 2 anywhere, anytime on your smart device. Developed based on BioStar 2's web APIs, BioStar 2 Mobile provides services appropriate for the mobile era, including user information registration, BioMini-based fingerprint registration, door control, real-time door and zone status notification, and access control event monitoring. In addition, mobile cards which you can issue via BioStar 2 are an authentication means capable of completely replacing existing plastic cards, and they help you build the most convenient and innovative mobile access control solutions.



Remote User Registration



Remote Door Control



Real-time Door and Zone Status Notification



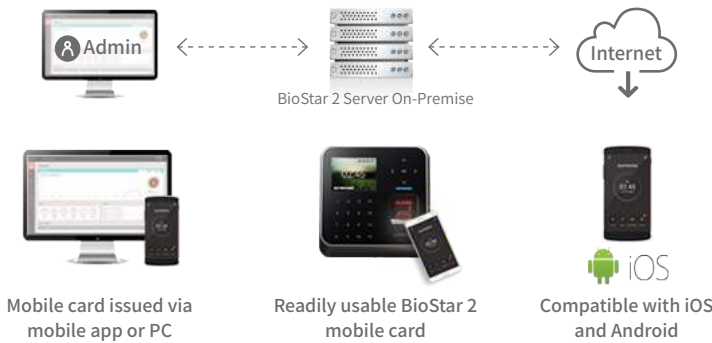
Access Control Event Monitoring



Mobile Cards



# BioStar 2 Mobile Card



**Android**

- Bluetooth** **BLE** Bluetooth Low Energy  
Communicates with Android devices via BLE  
Protects data communication with the encrypted AES 128-bit algorithm
- NFC** **NFC** Near Field Communication  
Communicates with Android devices via NFC's HCE  
Protects data communication with the encrypted AES 128-bit algorithm  
\* HCE is not available from all Android mobiles, please check the specification.

**iOS**

- Bluetooth** **BLE** Bluetooth Low Energy  
Communicates with iOS devices via BLE  
Protects data communication with the encrypted AES 128-bit algorithm

Supported Products					
Bluetooth NFC	Bluetooth NFC	NFC	NFC	NFC	Bluetooth NFC
NFC	Bluetooth NFC	NFC	NFC	NFC	Bluetooth NFC

# BioStar 2 License Policy

## Access Control License

Items		Starter (free of charge)	Basic	Standard	Advanced	Professional	Enterprise
Access Control	No. of Doors	5	20	50	100	300	1,000
	Maximum No. of Connected Devices	1,000	1,000	1,000	1,000	1,000	1,000
	Maximum No. of Access Levels <sup>1)</sup>	2,048	2,048	2,048	2,048	2,048	2,048
	Maximum No. of Access Groups <sup>1)</sup>	2,048	2,048	2,048	2,048	2,048	2,048
	Maximum No. of Access Groups per User	16	16	16	16	16	16
	Maximum No of Access Levels per Access Group	128	128	128	128	128	128
	Access Group Auto Sync	v	v	v	v	v	v
Users	Maximum No. of Cards per User	8	8	8	8	8	8
	Maximum No. of Fingerprints per User	10	10	10	10	10	10
	User Auto Sync	v	v	v	v	v	v
	Access-on-Card	v	v	v	v	v	v
	Security Credential Cards	v	v	v	v	v	v
	iCLASS Seos Card	v	v	v	v	v	v
	Inactivation User Reports	v	v	v	v	v	v
Custom Field	v	v	v	v	v	v	
Elevator Control	Maximum No. of Elevators	-	-	-	1,000	1,000	1,000
	Maximum No. of Floors per Elevator	-	-	-	192	192	192
	Maximum No. of Floor Levels	128	128	128	128	128	128
Zones	Anti-Passback	△(Door)	△(Door)	v	v	v	v
	Fire Alarm	-	-	v	v	v	v
	Schedule Lock/Unlock	-	-	v	v	v	v
	Intrusion Alarm Zone	-	-	v	v	v	v
	Interlock Zone	-	-	v	v	v	v
	Muster Zone	-	-	v	v	v	v
Advanced Features	Dashboard	v	v	v	v	v	v
	Cloud	-	-	v	v	v	v
	Server Matching	-	-	-	v	v	v
	Audit Trail	v	v	v	v	v	v
	Daylight Saving Time	v	v	v	v	v	v
	Dual Authentication	v	v	v	v	v	v
Monitoring	Graphic Map	-	-	-	v	v	v

<sup>1)</sup> Available from BioStar 2.7.0. (Requires latest firmware)

## Time & Attendance Management License

Items	Starter (free of charge)	Standard	Advanced	Professional
No. of Users	100	500	1,000	unlimited

## Video Log License

Items	Starter (free of charge)	Video License
Video Log	-	v

## Visitor Management License

Items	Starter (free of charge)	Visitor License
Visitor Management	-	v



**Kimaldi Electronics, S.L.**  
 Ctra.de Rubí, 292 B - Pol. Ind. Can Guitard  
 08228 - Terrassa (Barcelona) Spain  
 Tel. +34 937 361 510  
[www.kimaldi.com](http://www.kimaldi.com)