

BioStation A2

Fingerprint IP Access terminal



Suprema BioStation A2 is the most advanced fingerprint access control and time attendance terminal featuring Suprema's next generation biometric technology and security platform. BioStation A2 provides class leading performance through World's best matching performance, uncompromised security and accuracy along with top-notch usability. Preloaded with BioStar 2, BioStation A2 operates as a web server which offers extra flexibility in system design for sites large or small.

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Fingerprint IP Access terminal

Features



World's Fastest Performance

- Powered by 1GHz iMX6 Quad-core CPU
- Up to 150,000 matches per second (1:N)
- Data transfer speed up to 5,000 users/min



Improved Accuracy & Security

- Up to 5x enhanced recognition performance
- New advanced LFD(live finger detection) technology
- Improved optical sensor and algorithm



Expanded Capacity

- Max. 500,000 users
- 5mil text logs/50,000 image logs
- Large memory: 1GB RAM+ 8GB Flash



Best-in-class Features

- 5" IPS LCD touchscreen with reinforced glass front
- 2MP wide-angle camera for clear face image logs
- Android O/S with improved GUI
- Videophone support/Extensive RF card options



Versatile Interfaces

- TCP/IP, Wi-Fi, PoE(IEEE802.3af)
- USB host/OTG, SD card
- Wiegand, RS485, TTL I/O. relay

Specifications

Biometric	Fingerprint								
Template	SUPREMA+ISO 19794-2/ANSI 378								
Extractor / Matcher	MINEX certified and compliant								
LFD	Supported								
RF Option	<table border="1"><thead><tr><th>BSA2-OEPW</th><th>BSA2-OHPW</th><th>BSA2-OIPW</th><th>BSA2-OMPW</th></tr></thead><tbody><tr><td>125 KHz EM</td><td>125 KHz HID Prox</td><td>13.56MHz MIFARE MIFARE Plus, DESFire/EV1 FeliCa, iCLASS SE/SR, NFC</td><td>13.56MHz MIFARE MIFARE Plus, DESFire/EV1 FeliCa, NFC</td></tr></tbody></table>	BSA2-OEPW	BSA2-OHPW	BSA2-OIPW	BSA2-OMPW	125 KHz EM	125 KHz HID Prox	13.56MHz MIFARE MIFARE Plus, DESFire/EV1 FeliCa, iCLASS SE/SR, NFC	13.56MHz MIFARE MIFARE Plus, DESFire/EV1 FeliCa, NFC
BSA2-OEPW	BSA2-OHPW	BSA2-OIPW	BSA2-OMPW						
125 KHz EM	125 KHz HID Prox	13.56MHz MIFARE MIFARE Plus, DESFire/EV1 FeliCa, iCLASS SE/SR, NFC	13.56MHz MIFARE MIFARE Plus, DESFire/EV1 FeliCa, NFC						
CPU	1.0 GHz Quad Core								
Memory	1GB RAM + 8GB Flash								
Max. User	500,000 (1:1), 100,000(1:N)								
Max. Template	1000000(1:1), 200,000(1:N)								
Max. Logs	5,000,000(text), 50,000(image)								
LCD	5" IPS LCD with capacitive touchscreen								
LED	Multi-Color LED								
Sound	24 bit/Voice DSP (echo cancelation)								
Wi-Fi	Supported (IEEE 802.11 b/g)								
Interfaces	TCP/IP, RS485, Wiegand, TTL, Relays, USB								
SD Card	MicroSD up to 32GB								
PoE	Supported (IEEE 802.3af compliant)								
Tamper	Supported								
Power	DC 12V								
Operating Temperature	-20°C - 50°C								
Operating Humidity	0% - 80%, non-condensing								
Camera	2 MP wide-angle (1600 x1200)resolution								
Dimension (W x H x D)	155 mm x 155 mm x 40 mm								
Unit Weight	440g								
Certificates	CE, FCC, KC, RoHS, REACH, WEEE								

Product specifications

Category	Feature	Specification
Credential	Biometric	Fingerprint
	RF Option	<ul style="list-style-type: none"> BSA2-OEPW: 125kHz EM BSA2-OHPW: 125kHz HID Prox BSA2-OIPW: 13.56MHz iCLASS SE/SR/Seos, NFC BSA2-OMPW: 13.56MHz MIFARE, MIFARE Plus, DESFire/EV1, FeliCa, NFC
	RF read range*	EM/HID Prox: 50 mm, MIFARE: 50 mm, DESFire: 50 mm, Felica: 30 mm
General	LFD	Supported
	CPU	1.0 GHz Quad Core
	Memory	8GB Flash + 1GB RAM
	LCD type	5" color TFT touch
	LCD resolution	480 x 854
	LED	Multiple colors
	Sound	24 bit/Voice DSP (echo cancel)
	Operating temperature	-20 °C - 50 °C
	Storage temperature	-40 °C - 70 °C
	Operating humidity	0% - 80%, non-condensing
	Storage humidity	0% - 90%, non-condensing
	Camera type	CMOS 2M pixels
	Camera resolution	1600 x 1200
	Camera angle	Diagonal 122°, Horizontal 64.7°, Vertical 103.3°
	Dimension (W x H x D)	155 mm x 155 mm x 40 mm
Fingerprint	Weight	Device: 440 g Bracket: 89 g (Including washer and bolt)
	Certificates	CE, FCC, KC, RoHS, REACH, WEEE
	Image dimension	272 x 320 pixels
	Image bit depth	8bit, 256 grayscale
	Resolution	500 dpi
	Template	SUPREMA / ISO 19794-2 / ANSI 378
Capacity	Extractor / Matcher	MINEX certified and compliant
	LFD	Supported
	Max. User (1:1)	500,000
	Max. User (1:N)	100,000
	Max. Template (1:1)	1,000,000 (Two templates per finger)
	Max. Template (1:N)	200,000 (Two templates per finger)
Interface	Max. Text Log	5,000,000
	Max. Image Log	50,000
	Wi-Fi	Supported
	Ethernet	Supported (10/100 Mbps, auto MDI/MDI-X)
	RS-485	1ch Host or Slave (Selectable)
	Wiegand	1ch Input, 1ch Output
	TTL input	1ch Input
	Relay	2 Relay
	USB	USB 2.0 (Host)
	SD Card	microSD card (Supports up to 32 GB) * The functions of the SD card are available by customization only.
Electrical	PoE	Supported (IEEE 802.3af compliant)
	Tamper	Supported
	Power	Voltage: 12 VDC Current: Max. 850 mA
	Switch input VIH	Min.: 3 V Max.: 5 V
	Switch input VIL	Max.: 1 V
	Switch Pull-up resistance	4.7 kΩ (The input pots are pulled up with 4.7 kΩ.)
	Wiegand output VOH	More than 4.8 V
	Wiegand output VOL	Less than 0.2 V
Wiegand output Pull-up resistance	Internally pulled up with 1 kΩ	
Relay	Voltage: Max. 30 VDC Current: Max. 1 A	

* RF read range will vary depending on installation environment.