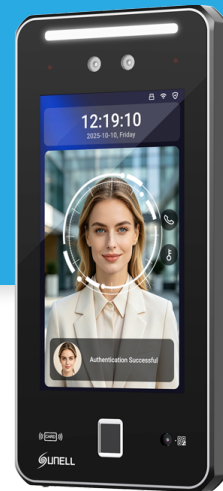


SN-M3207U-B-A

Face Recognition Access Control Terminal



Key Features

- 7-inch IPS LCD touchscreen with 600 × 1024 resolution
- 2 MP dual-sensor camera with face recognition and liveness detection
- Face recognition distance of 0.5 to 3 m with response time ≤ 200 ms
- Face recognition accuracy ≥ 99.8%
- Supports up to 10,000 users, 50,000 face images, 50,000 cards, 5,000 fingerprints, and 150,000 event records
- Multiple authentication methods including face, card, password, fingerprint, and QR code
- Supports mask detection, masked face recognition, and face liveness detection
- SIP-based two-way audio communication with devices and management platforms
- Integrated access control interfaces for door lock, exit button, door contact, and alarm I/O
- Supports Ethernet and dual-band Wi-Fi connectivity
- Hardware Root of Trust with FIPS 140-3 Level 3 Certified Secure Element
- IP65-rated protection for indoor and outdoor applications

Specifications

System	
Operating System	Linux
Memory	1 GB RAM
Storage	16 GB eMMC Flash
Camera	
Image Sensor	Dual-sensor design supporting face liveness detection
Max. Resolution	2 MP (1920 × 1080)
Min. Illumination	Color: 0.001 Lux
Lens Type	Fixed lens
Focal Length	4 mm
Max. Aperture	F2.2
Field of View (FOV)	H: 63°, V: 37°
Display	
Display	7-inch IPS LCD touchscreen
Resolution	600 × 1024
Access Authentication	
Authentication Methods	Face, Card, Password, Fingerprint
QR Code Authentication	Supported through platform verification
Face Recognition Distance	0.5 to 3.0 m (1.64 to 9.84 ft)
Face Recognition Height	1.2 to 2.2 m (3.94 to 7.22 ft)
Face Recognition Accuracy	≥99.8%
Face Recognition Speed	≤0.2 s
Face Liveness Detection	Supported
Mask Detection	Supported
Face Attendance	Supported
Card Types	MIFARE, DESFire, Felica, IC, ID, M1
Card Frequency	125 kHz / 13.56 MHz
Card Reading Distance	0 to 2 cm
Card Reading Time	<1 s
Fingerprint Sensor	Capacitive
Fingerprint Comparison Time	<0.1 s

Capacity	
User Capacity	10,000
Face Image Capacity	50,000
Card Capacity	50,000
Fingerprint Capacity	5,000
Event Capacity	150,000
Access Control	
Lock Control	Supported
Door Contact Input	Supported
Exit Button	Supported
Tamper Protection	Supported
Alarm Functions	I/O alarm, tamper alarm
Intercom	
Two-way Audio	Device-to-device and device-to-management center communication
SIP Protocol	Supported
Attendance	
Face Attendance	Supported
Attendance Record Export	Supported
Video & Audio	
Number of Streams	Triple streams
Video Resolution	Stream 1: 1920 × 1080, 1280 × 720 Stream 2: D1, VGA, 640 × 360, CIF, QVGA Stream 3: VGA, CIF, QVGA
Frame Rate	Up to 25/30 fps
Bit Rate Control	CBR / VBR
Bit Rate	Stream 1: 200 Kbps to 12 Mbps Stream 2: 100 Kbps to 6 Mbps Stream 3: 100 Kbps to 3 Mbps
Audio Compression	G.711 A-law, G.711 μ-law
Audio Input	Built-in microphone
Audio Output	Built-in 2 W speaker
Network	
Network Interface	1 × RJ45, 10/100 Mbps self-adaptive Ethernet port
Wi-Fi	IEEE 802.11a/b/g/n/ac, 2.4 GHz / 5 GHz
Wi-Fi Security	WPA-PSK, WPA2-PSK
Network Protocols	IPv4, IPv6, HTTP, HTTPS, TCP, UDP, DHCP, DNS, DDNS, RTSP, RTP, RTCP, FTP, SMTP, NTP, QoS, SNMP, UPnP

MQTT	Supported
Interoperability	ONVIF (Profile S/T/G/M), SDK, CGI
Max. Concurrent Streams	10
User/Host Level	32+ users, 3 levels: Administrator, Operator, Media User
Cybersecurity	
Secure Boot	Supported
Firmware Protection	Signed firmware, Encrypted firmware
User Authentication	Digest authentication, Brute-force attack protection
Network Authentication	IEEE 802.1X (EAP-TLS)
Secure Communication	HTTPS, WSS (WebSocket Secure), SRTP
Access Control	IP-based access control, Auto logout
Data Protection	Encryption credentials
Audit Logging	Access, system, and event logs
Secure Storage	AES-256 encrypted SD card storage
Supply Chain Security	SBOM support
Hardware Security	FIPS 140-3 Level 3 certified Secure Element
Interface	
Alarm I/O	2 inputs / 2 outputs
USB	1 × USB 2.0
RS-485	Supports OSDP protocol
Wiegand	1 × Wiegand, configurable as input/output (26/34/35/36/37/50 bit)
SD Card Slot	Built-in microSD card slot, up to 1 TB
Reset Button	Supported
Power Output	12 VDC / 500 mA
General	
Language	English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English
Power Supply	12 VDC / PoE (IEEE 802.3af)
Power Consumption	Max. 13.2 W (DC 12 V / 1.1 A, with USB load)
Operating Temperature	-30 °C to 60 °C (-22 °F to 140 °F)
Operating Humidity	≤90% RH (non-condensing)
Ingress Protection	IP65
Certifications	CE, FCC
Material	Aluminum alloy housing
Dimensions	120.1 × 25.5 × 248.1 mm (4.73 × 1.0 × 9.77 in)
Net Weight	Approx. 725 g (1.6 lb)

Mounting Method	Pole Mount, Wall Mount, Countertop
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Dimensions (mm)

