

S3020f Portable Fingerprint Reader

Portable Handheld Fingerprint Reader

OVERVIEW

The S3020f reader is a lightweight and rugged hand-held card reading and fingerprint verification device. It can be used for ID card validation and fingerprint verification at remote sites or temporary entrances which have no power.

Unlike comparable solutions, that save fingerprint templates only to a smart card, the S3020f reader captures fingerprint templates on the CEM AC2000 access control enrolment station. Using a Suprema fingerprint module, fingerprints are read and encoded as a numerical value, meaning that physical fingerprints cannot be stored or copied. All data is subsequently saved to the AC2000 server and uniquely distributed to the S3020f reader for local storage in its internal database.

Using a compact flash card, around 100,000 card and biometric records can be held in the S3020f reader's internal database. Around 8,000 offline card swipe transactions can also be stored for on-line transmission to the AC2000 system via built-in 802.11g WiFi connection, (supports WPA2-AES Encryption).

Card technologies supported include HID iClass, 13.56MHz MiFare (also supports DESFire CSN 32bit), and Picopass. A large full colour TFT touchscreen provides quick and easy navigation with the onboard menu options and also provides information about card/fingerprint validity (e.g. Card Valid, Not In System, Wrong Timezone and Invalid Biometric).

The S3020f reader features an 'Occupancy mode' which provides the ability to do spot checks on a set group of people in a defined area, e.g. a bus or plane. It ensures that each person physically in the area is present via their own card privileges and prevents card sharing.



FEATURES

- Portable ID card & fingerprint reader in one device
- Suprema fingerprint module
- Hand size and robust, weighing only 650 grams
- Large memory capacity around 100,000 card records on the 64MB flash
- Internal capacity for around 8,000 offline transaction events
- Full colour TFT touchscreen with stylus pen
- Deluxe protective carry case with straps
- Spare batteries available
- Supplied with charging cradle
- Applications include construction site access, temporary entrance gates, guard tours and a variety of off-site locations
- 802.11g WiFi (using WPA2-AES Encryption)
- Reader 'Occupancy Mode' for spot checks in a defined area

PRODUCT HIGHLIGHTS

Portable card & fingerprint verification

Using a Suprema fingerprint module, fingerprint minutia are read and encoded as a numerical value. Verification is then carried out by comparing this number against the Portable Reader internal database. This method is highly secure, as the physical image of the fingerprint is not stored and therefore cannot be copied by a malicious party.

Battery Charging

The S3020f Portable Fingerprint Reader is supplied with a charging cradle which provides a quick and easy way to place the unit on charge, with typical charge time from empty up to 12 hours, providing typically up to 16 hours of use. Whilst in this cradle it will connect to the central AC2000 server/controller to upload card transactions and also receive any new or updated cardholder records.

Wireless Operation

The S3020f reader uses 802.11g WiFi connectivity to connect to the CEM AC2000 system, with the option to connect remotely via WiFi every 15 minutes. This ensures that data is updated to the central AC2000 database at regular intervals.

Rugged Design

The S3020f Reader has been designed with strength in mind, with a compact and robust enclosure. It comes in a strong polycarbonate casing with heavy duty protective carry case and straps.

Multiple Card Reading Support

The S3020f Portable Reader can be ordered in a variety of different models, each providing different card reading technology, for example HID iClass, 13.56MHz MiFare (also supports DESFire CSN 32Bit) and High Security PicoPass (Sector Ready).

Mobility

The S3020f Portable Fingerprint Reader can be used in a wide range of scenarios where mobility is paramount. For example, it can be used by a security guard either in a patrolling mode within pre-defined zones, or at fixed temporary locations where there is no power, to verify that a cardholder is authorised to be at that location and to record their presence. Other scenarios include construction sites, bus and train stations and random checks within large commercial sites.

TECHNICAL SPECIFICATIONS

PHYSICAL

Size	225 x 100 x 45mm
Weight	650g (22.9oz) with connectors
Housing	Flame retardant polycarbonate containing fully encapsulated electronics. (excluding fingerprint head)
Colour	Black and Yellow
Power	Voltage 2.4VDC
Battery	4000mAh NiMH rechargeable pack
Charge Time	Up to 12 Hours (depending on battery condition) Fully Charged Up to 16 Hours (depending on use).
Environmental	Indoor use/outdoors if dry and dust free
Temperature	0°C to 55°C (32°F to 131°F)
Display	3.5inch VGA TFT 320x240 pixels Touch Screen
Card Motion	Presentation
Available Head Technologies	HID iClass MiFare Smartcard 13.56MHz (DESFire Smartcard CSN 32Bit) PicoPass Sector Read

Memory	64MB Onboard non-volatile NAND Flash 8GB Compact Flash for extra records
Database Cardholders	Storage of up to 100,000 cardholders on 64MB Flash
Transactions	Around 8,000 transactions in offline operation.
Configuration	Cardholder database is downloaded from host server/controller. Some configuration settings can also be set using the touchscreen.

COMMUNICATION INTERFACE

To System Host	Encrypted TCP/IP using 802.11g WiFi
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PRODUCT CODES

RDR/302/F08	HID iClass
RDR/302/F05	13.56MHz MiFare (also supports DESFire CSN 32Bit)
RDR/302/F06	Picopass
Minimum system Requirements	AC2000 SE v5.7 upwards AC2000 Lite v6.1 upwards

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