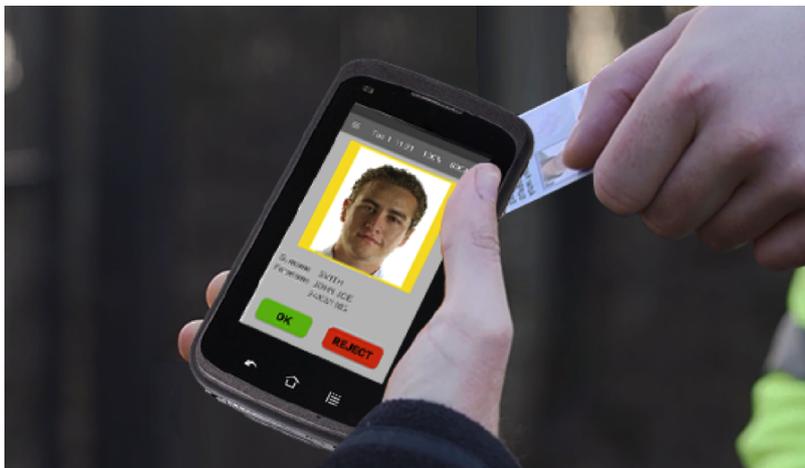


S3050 Portable Card Reader



Key Features

- Authenticate cardholder details anywhere, even if main power is unavailable
- Encrypted storage of up to 250,000 cardholders on-board
- Dual credential authentication through card swipe and visual confirmation of cardholder photograph
- Mustering, Occupancy, Roaming and Random Check functionality
- Rugged design and lightweight at just over 345g
- High-res, 4.5 inch WVGA (1280 x 720) capacitive color touch screen display
- Connection to host via TCP/IP using 802.11 a/b/g/n/ac encrypted Wi-Fi or connection via ethernet docking station
- Support for MIFARE/ DESFire CSN, CEM DESFire, HID iCLASS/ iCLASS SEOS, and HID 125Khz Proximity

Handheld portable card reader

The CEM Systems S3050 is a lightweight and rugged hand-held card reading device for use with the AC2000 access control and security management system.

The S3050 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 predefined zones, or at fixed temporary locations where there is no power, to verify that a cardholder is authorized to be at that location and to record their presence. Other scenarios include construction sites, bus and train stations, airside/ landside boundaries, and random checks within large commercial sites.

A large 4.5 inch WVGA (1280 x 720) capacitive color touch screen provides quick and easy navigation. The screen displays feedback information about the status of each card, with further details including name and date of birth. Cardholder photographs are also displayed on-screen for dual authentication, minimizing the threat of card sharing.

Up to 250,000 encrypted cardholder IDs can be held in the reader's database for differentiation between authorized or unauthorized personnel. Transactional data is buffered and later passed to the AC2000 system via built in Wi-Fi connectivity which supports WPA2-AES encryption or via a network docking station.

Multiple card technologies supported

The S3050 Portable Reader is available in different models, providing different card reading technology, for example HID 125Khz Proximity, MIFARE/ DESFire CSN, HID iCLASS/ iCLASS SEOS, and CEM DESFire.

Roaming mode

A Roaming feature allows a single S3050 to perform card verification across multiple pre-defined zones or access levels by switching between virtual addresses. Security guards can use this feature to check access permissions across entire buildings or sites, changing virtual addresses as they roam.

Mustering mode

S3050 readers may be used as portable muster devices. This means that, in the event of an emergency, the reader may be taken to a safe muster point, where cardholders swipe the reader with their card to confirm that they are no longer in danger. Details of remaining cardholders that have not swiped can be listed as a report on the S3050 display.

Occupancy mode

An Occupancy feature allows cardholder head counts to be performed in a defined area preventing card sharing. It also provides the ability to do spot checks on a set group of people in a defined area, e.g. a bus, ensuring maximum occupancy levels are not exceeded.

Random check mode

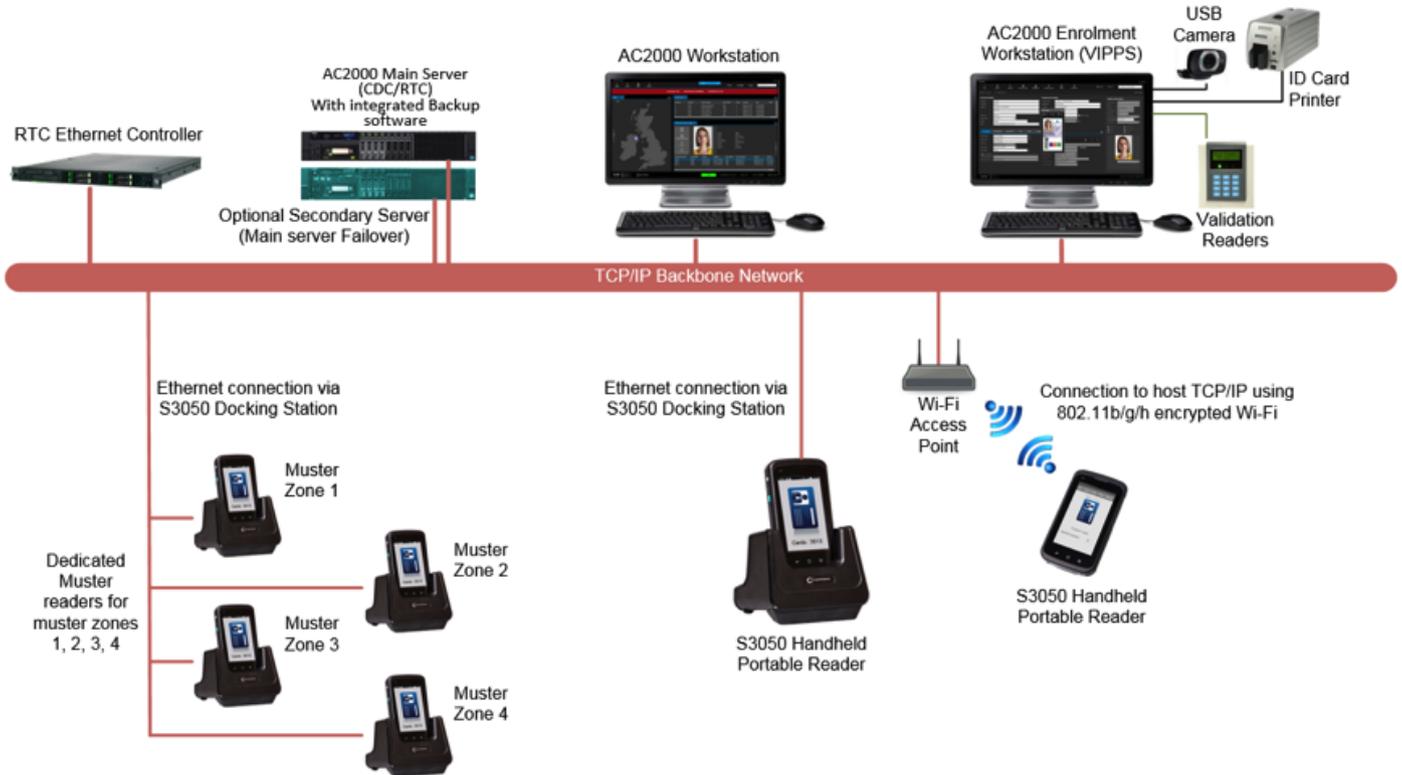
The S3050 also features Random Check Mode which instructs operators to perform random checks on cardholders. For example, the S3050 can be configured to prompt a guard to check a cardholder's personal protection equipment (PPE) for adherence to company policy, or an airport might use the search prompt to manage search ratios.

Portable accessories

The S3050 comes with a power adapter, docking station, stylus pen, and hand strap. Optional external snap-on power banks (5200 mAh) are available for purchase. When placed in the docking station (which is connected via Ethernet to the AC2000 system) the S3050 will connect to the AC2000 server, upload card transactions, and also receive any new or updated cardholder records automatically.



S3050 Portable Reader Topology



Specifications

| Physical | |
|----------------------------------|--|
| Dimensions (HxWxD) | 150 x 80 x 30 mm (5.9 x 3.1 x 1.2 inches) |
| Weight | Less than 12 oz. (345 grams) including battery |
| Color Screen | 4.5" WVGA High resolution (1280 x 720) - Portrait Capacitive color touchscreen |
| Battery | 3300 mAh (Up to 10 hours depending on usage) - Non-removable battery <ul style="list-style-type: none"> • Standard power supply (5.35V, 2A) • Docking station (Single) • Support fast charging • Optional external snap-on power bank (5200 mAh) |
| Performance Characteristics | |
| Processor | Qualcomm Snapdragon MSM 8956 - Dual Core @1.8 GHz - Quad Core @1.4 GHz |
| Memory | 2 GB RAM - 16 GB Flash |
| Operating System | Android 7.1.2 |
| Environmental | |
| Temperature | Operational: -20°C to +60°C Storage: -20°C to +60°C |
| Humidity | Humidity 5 to 85% non-condensing |
| IP Rating | IP65 |
| Drop Specification | Multiples drops on 1.5m (Compliant MIL-STD-810G) |
| Functionality | |
| Available Read Head Technologies | MIFARE/ DESFire CSN, CEM DESFire, HID iCLASS/ iCLASS SEOS, and HID 125Khz Proximity |
| Database Cardholders | Storage of up to 250,000 encrypted cardholders |
| Transactions | Storage of up to 16,000 transactions in offline operation |
| Communications | Encrypted database over TCP/IP using 802.11g Wi-Fi or Ethernet cabled connection (requires docking station) |
| Communication | |
| WLAN | WiFi (2.4 GHz - 5 GHz) - 802.11 a/b/g/n/ac |
| Regulatory | |
| Agency Certifications | EU: CE RED certification US: CB / UN 38.3 |

Requirements

- AC2000 v7.0 software and higher
- AC2000 Airport v7.0 software and higher
- AC2000 Lite v7.0 software and higher

Ordering Information

| Product Code | Description |
|--------------|--|
| RDR/305/001 | S3050 Portable Card Reader (Prox) with docking station |
| RDR/305/006 | S3050 Portable Card Reader (Picopass) with docking station |
| RDR/305/007 | S3050 Portable Card Reader (MIFARE/ DESFire) with docking station |
| RDR/305/008 | S3050 Portable Card Reader (iCLASS SEOS) with docking station |
| MEE/305/004 | S3050 Docking Station with power port, Master/Slave USB port, Ethernet port and power supply |
| MEE/305/006 | S3050 Power Adapters Kit: US – UK |
| MEE/305/007 | S3050 External Battery Power Bank |
| MEE/305/008 | S3050 Leather Case with standard quick release clip and webbing belt loop |

To order contact cem.sales@tycoint.com or call +44(0) 2890 456 767

Approvals



Related Products



- AC2000
- AC2000 Airport
- AC2000 Lite

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