

# S3040 Portable Reader

## Handheld Card Reader



### Features that make a difference:

- Authenticate cardholder details anywhere, even if mains power is unavailable
- Encrypted Storage of up to 200,000 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 550g
- High-res 3.5" TFT LCDQuadraClear® sunlight readable display
- LifeSupport™ hot swappable batteries
- Connection to host via TCP/IP using 802.11b/g/n encrypted WiFi or connection via USB ethernet hub
- Support for 125kHz HID Proximity, MiFare or DESFire CSN, HID iClass/iClass SE, PicoPass Sector and CEM DESFire
- PS336 Office Docking provides charging capability not only for the S3040 Portable reader but also for a spare battery simultaneously

The S3040 is a lightweight and rugged hand-held card reading device for use with the AC2000 access control and security management system.

The S3040 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 full color sunlight readable touch screen provides quick and easy navigation. The screen displays feedback information about the status of each card, with further details including name, job title and date of birth. Cardholder photographs are also displayed on-screen for dual authentication, minimizing the threat of card sharing.

Up to 200,000 encrypted cardholder ID's 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 802.11g WiFi connectivity which supports WPA2-AES Encryption, or via a USB-Ether hub.

### Roaming Mode

A Roaming feature allows a single S3040 to perform card verification across multiple pre-defined zones or access levels by switching between virtual addresses. Security guards can use this feature to essentially check access permissions across entire buildings or sites, changing virtual addresses as they roam.

### Mustering Mode

S3040 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 S3040 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 S3040 also features Random Check Mode which instructs operators to perform random checks on cardholders. For example, the S3040 can be configured to prompt a guard to check cardholder's personal protection equipment (PPE) for adherence to company policy, or an airport might use the search prompt to manage search ratios.

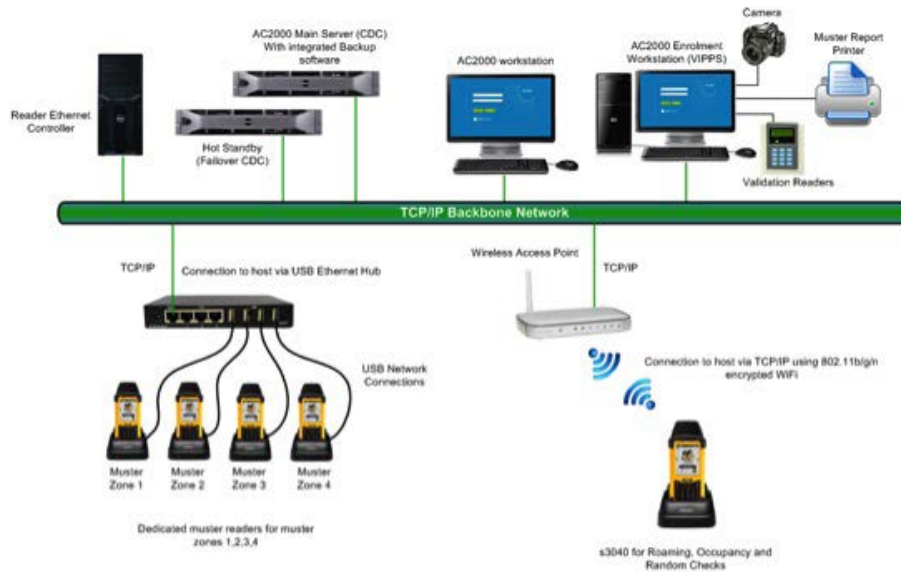
### Multiple Card Reading Support

The S3040 Portable Reader is available in a variety of different models, each providing different card reading technology for example HID 125Khz Proximity, MiFare or DESFire CSN, HID iClass/iClassSE, PicoPass Sector and CEM DESFire.

### Portable Accessories

The S3040 comes with a power adapter, carry case, stylus pen and a docking station which provides a quick and easy way to place the unit on charge. When placed in the cradle the S3040 will connect to the AC2000 server, upload card transactions and also receive any new or updated cardholder records automatically.

## S3040 Portable Reader Topology



## Specifications

### Physical

Size . . . . . 220 x 89 x 30mm  
 Weight . . . . . 550g (Approx)  
 Housing . . . . . Flame retardant polycarbonate containing fully encapsulated electronics  
 Color . . . . . Black and Yellow  
 Memory . . . . . 512MB RAM, 8GB Flash

### Power

Charging Voltage . . . . . 12v DC  
 Battery . . . . . 5600mAh Li-Ion smart battery  
 Charge Time . . . . . Less than 8 hours  
 Fully Charged . . . . . Up to 10 Hours (depending on use)

### Environmental

Temperature . . . . . -25°C to 55°C Operational  
 Humidity . . . . . -95% RH, non-condensing  
 Display . . . . . 3.5" TFT LCD VGA (480 x 640) Pressure sensitive touchscreen Blan view transmissive display

### Functionality

Available Read Head Technologies . . . . . HID 125Khz Proximity, MiFare or DESFire CSN, HID iClass/iClass SE, PicoPass Sector and CEM DESFire  
 Database Cardholders . . . . . Storage of up to 200,000 encrypted cardholders  
 Transactions . . . . . Storage of up to 50,000 transactions in offline operation  
 Communications . . . . . Encrypted TCP/IP using 802.11g WiFi or USB cabled connection (Requires USB-Ether Hub)

### USB-Ether hub Specifications

Port Connectors . . . . . Four USB 2.0 hardware ports, four 10/100 Ethernet  
 System Requirements . . . . . Web browser for configuration  
 Power . . . . . 5VDC  
 Regulatory Compliance . . . . . FCC, CE and VCCI (application of VCCI in progress)  
 Dimensions . . . . . (Hub) (L x W x H): 152mm x 88 x 25; 6" x 3.5" x 1"  
 Weight . . . . . (Hub & power adapter) 0.45Kg / 16oz  
 Operating temperature . . . . . 0°C ~ 40°C  
 Humidity . . . . . 10% ~ 90% RH (Non-condensing)  
 Storage temperature . . . . . -20°C ~ 90°C

### Regulatory

Agency Certification . . . . . FCC Part 15  
 CE

### Ordering Information

Product Codes	Description
RDR/304/001	S3040 Portable Card Reader (with onboard 125kHz HID Proximity)
RDR/304/005	S3040 Portable Card Reader (13.56MHz MiFare/DESFire CSN)
RDR/304/006	S3040 Portable Card Reader (PicoPass)
RDR/304/008	S3040 Portable Card Reader (iClass SE)

### Requirements

- AC2000 v6.3 software and upwards
- AC2000 Airport v6.6 software and upwards
- AC2000 Lite v6.4 software and upwards

## Related Products



AC2000  
 AC2000 Airport  
 AC2000 Lite

## Approvals



[www.cemsys.com](http://www.cemsys.com)