

S610e Reader

Multi-technology Intelligent IP Reader

OVERVIEW

The S610e Card Reader is designed for use as part of an integrated on-line access control system and is used to control access to restricted areas or in special applications where card activation of machinery is required.

The reader, which has an on-board 10/100Mbps Ethernet connection, communicates directly with the AC2000 host server removing the need for an intelligent control panel in the system design.

Using a powerful 32bit processor, the S610e gives full off-line card validation and decision making at the point of entry, even when host communication is not available.

Designed for use with all card technologies the S610e device is available with integral reading support for 125 KHz HID Proximity, 13.56 MHz iClass, DESFire, MiFare and PicoPass smartcard as well as a multi technology option to support Proximity and MiFare. Two additional wiegand inputs are available for connecting other reading technologies externally or an Exit read head for IN/OUT control.

The IP66 rated polycarbonate enclosure houses the reader electronics and comes with a large 4x3 Keypad, graphical display screen and three LED indicators.

The reader has 4 analogue inputs, which can be used to monitor door and alarm conditions for transmission to the host computer. Two outputs are also available to control the activation of door locks or other equipment.



S610e Reader

FEATURES

- Industry's most advanced card reader
- Integral reading technology for Proximity, iClass, DESFire, Mifare, Proximity + Mifare or Inside PicoPass.
- 10/100 Mbps Ethernet host connection
- Communicates directly with the host server – no need for an intelligent control panel in system design
- Universal Reader - supports all card technologies
- Structured database allows storage of large amounts of cardholder records for off-line card validation
- Backlit Monochrome Graphics LCD display with heating element provides localised character sets and instantly recognisable icons under the most extreme conditions
- Keypad for configuration and optional personnel Identification Number (PIN)
- 4 analogue inputs to monitor alarm conditions and 2 changeover relay outputs to activate door strike or other equipment
- Remote programming facility to download program
- Broadcast facility to enable selective operational mode

PRODUCT HIGHLIGHTS

Host Communications

The S610e has an on-board 10/100 Mbps Ethernet allowing it to communicate directly with the AC2000 host server, removing the need for an intelligent control panel in the system design.

Onboard Card Reading Technologies

The S610e supports onboard card reading technologies for 125 KHz Proximity, 13.56 MHz, DESFire, Mifare, iClass, and PicoPass, as well as multi technology version to support Proximity + Mifare. Other technologies can be supported using the two available onboard Wiegand connections.

Proximity to Mifare Smartcard Migration

The S610e Multitech version supports the simultaneous reading of both traditional Proximity and Mifare smart cards. This enables existing sites using proximity cards to migrate to Mifare smartcards with zero system downtime and no reduction in security. The Mifare card can be used for other applications such as cashless vending, Biometric storage, logical access, etc.

Off-line Card Validation

The card database is initially downloaded to the reader's memory from the host computer with subsequent changes to card data automatically sent as updates. This ensures that the reader has up-to-date card information when operating in off-line mode. Operating in off-line mode the reader can hold in excess of 200,000 cards.

Easy to Install

The S610e is designed to be extremely easy to install. The installer simply enters the unit IP address on the server, provides it with power, connects to an Ethernet network and the reader self-configures and receives a 50,000 cardholder database in under 2 minutes.

Reader Messages

The S610e has a large graphical LCD which is used to display a number of predefined messages to cardholders depending on their privileges e.g. Wrong Zone, Lost/Stolen Card, Card About to Expire, Access Granted etc. Messages to be displayed by the S610e can be modified via the AC2000 software or translated into local languages.

TECHNICAL SPECIFICATIONS

PHYSICAL

Size	142 x 115 x 44mm (5.6 x 4.5 x 1.7")
Weight	370g (13oz) with connectors
Housing	Flame retardant polycarbonate containing fully encapsulated electronics.
Colour	Dark and Light Grey
Power	
Voltage	9 – 14Vdc
Current	
Consumption	200mA (passive), 320mA (peak)

ENVIRONMENTAL

IP Rating	IP66
Temperature	-20° to 60°C (-4° to 140°F)
LED Indicators	Three high intensity LED indicators red, amber and green
LCD Indicators	32 x 122 dots Monochrome Graphics supertwist LCD with backlight
Keypad	12 character, standard layout, tactile or non-tactile response keypad.

FUNCTIONALITY

Inputs	Four analog inputs – voltage supplied
Outputs	Two relays fitted – Changeover volt free contacts
Rating	30Vdc @ 5A
Duration	Programmable

Suppression device (diode, MOV, etc.) required at load	
Memory	2 MB battery backed memory
Compact Flash	32 MB Typical (Optional)

Database	
Battery Backup	3.0V rechargeable Lithium-Ion

Database	
Cardholders	Storage of up to 219,000 cardholders at the door. - 438, 848 cardholder in 24bit mode.
Transactions	Up to 8,000 transactions in offline operation.
Configuration	Operational parameters are downloaded from host computer. Some configuration setting can also be set using the keypad.
Standard	
Operating Modes	Door Access, Passenger, Turnstile, Verification, Manned Control Post, Equipment Enable

COMMUNICATION INTERFACE

To Exit Reader	RS485 multidrop cable runs using copper wire with maximum length of 1.2km without repeater
Connection	2 part JST Connector
To System Host	10/100 Base-T TCP/IP using CAT5 Unshielded twisted pair cable
Connection	RJ45

OFF-LINE CARD VALIDATION

32 bit-	200,000+
24 bit-	438,848+

PRODUCT CODES

RDR/610/101	S610e 125khz HID Prox
RDR/610/108	S610e 13.56MHz HID iClass
RDR/610/105	S610e 13.56MHz MiFare
RDR/610/104	S610e Prox & Mifare (Multi-tech)
RDR/610/106	S610e PicoPass™
RDR/610/109	S610e External Read Head
RDR/610/107	S610e DESFire

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