



SA-8100

INTELLIGENT NETWORK

BENEFITS

- * Direct connect (RS232/RS485 multi-dropped), TCP/IP or dial-up communications
- * Stores a complete access control and configuration database for up to 32 readers (up to 64 doors) and 44,000 cardholders
- * 8 MB on-board memory expandable to 40MB (250,000 cardholders; 6,000 events)
- * Flash memory for real-time program updates and Lithium battery back-up
- * Interfaces with a Maximum of:
32 Door/Reader Controllers or
32 Input Monitor Controllers or
32 Output Control Controllers
- * Reports supervised inputs/alarms with 255 priorities
- * Elevator Control Configuration and enhanced Anti-passback capabilities
- * Three dedicated inputs for Tamper, Power and battery Failure Status
- * Receives and processes real time commands from the Host by reporting all activity to the host and controlling communications with all connected devices
- * Buffers offline transactions and uploads to the host when communications are restored and allows fallback communications via dialup or RF modem, if TCP/IP network communications are lost
- * UL 294 and UL 1076 recognized components

OVERVIEW

Access Technologies International's StarAccess® series intelligent controllers provide the power, performance, and flexibility of a complete and fully featured hardware and firmware infrastructure for an advanced and integrated access control system, communicating via industry standard RS-232/RS485, TCP/IP protocol over 10/100Mbps Ethernet, or the Internet.

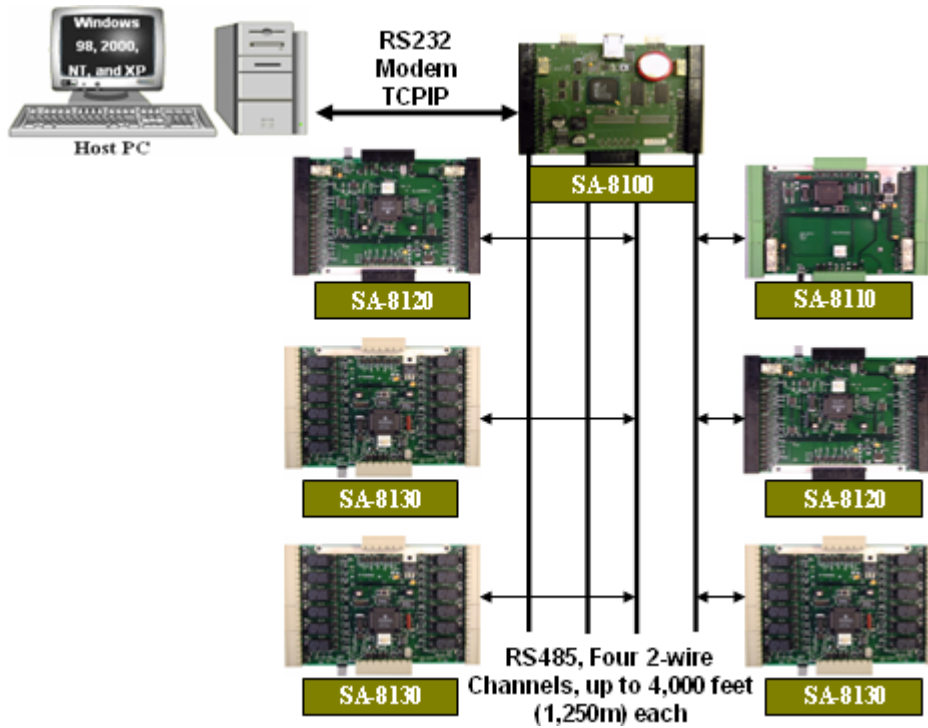
The SA-8100 Intelligent Network Controller boasts a 32-bit RISC processor running the Linux Operating System. On-board flash memory allows program updates to be downloaded via the network.

The SA-8100 connects up to 32 Readers, Input Monitor, or Output Control Interfaces via two independent RS-485 Networks, each network having two sets of input connections for optimum system topology. Multiple combinations of SA-8110 a 2-door Reader Controller, SA-8120 a 16-Zone Input Monitor Controller, and SA-8130 a 12-Device Relay Output Controller can be connected.

Utilizing the Ethernet architecture option minimizes the impact on corporate LANs by using only one TCP/IP address for every 32 interfaces, and by handling low-level transactions on the RS-485 network.



CONFIGURATION



SPECIFICATIONS

CPU	32-bit AXIS RISC, 100MHz, LX/100
Operating System	Linux 2.4.14
Memory	8MB onboard, expandable to 40MB
Dimensions	5.8" W x 4.825" H x 1.275" D (147.32mm x 122.55mm x 32.38mm)
Power Supply Requirements	140 mA @ 12 to 18 VDC
Communication Ports	2 RS232 port - three wire (pins 2, 3, and 5) for Modem and direct connect 4 RS485 port - Two wire, 1 TCP/IP port - 10 or 100Mbps
LED Indicators	3 LED's (Red, Green and Yellow) Power LED (Red when 12VDC is ON) Communications LED (GREEN when transmitting to downstream modules)
Power	12 VDC, 150 mA

Operating Environment	Indoors, or NEMA-4 rated enclosure
Temperature	32°F to 122°F (0°C to 50°C)
Humidity	5% to 95% relative, non-condensing
Weight	12.4oz (0.35kg)
Cable Distance	RS485 - 4000 feet per network (four independent RS485 networks using 22AWG - 2 Twisted pair, Shield 100Ω cable) TCP/IP - 300 feet to next device using Category 5 cable Input Circuits - 500 feet (150 m), 2-conductor, shielded, using 22AWG cable Output Circuits - 500 feet (150 m), 2-conductor, shielded, using 22AWG cable
Input and Output Ports	2 Linear inputs Analog/Digital settings 2 Conventional Relay outputs (form C)
Monitor Inputs	3 Linear inputs to monitor Tamper, AC Fail and battery Fail

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.



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