



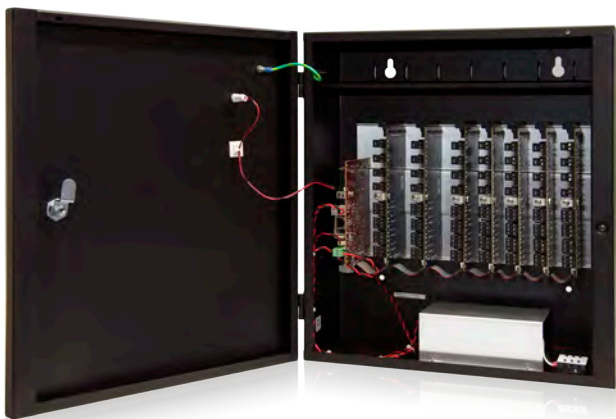
# S2 Access Control Application Blade

## Overview

S2 Access Control Application Blade is a dual-card reader interface board with reader, input and output points to support a wide range of devices. Of the four types of S2 Application Blades, the S2 Access Control Application Blade offers the largest variety of connections.

Each S2 Access Control Application Blade supports up to two doors or other access points, interfacing with Wiegand, magnetic stripe and keypad technologies. Compatible devices include REX, DSM, door controllers, alarms, card readers and more. Four inputs support normally open, normally closed, supervised and non-supervised circuits. Four output relays can be configured for fail-safe or fail-secure operation.

Up to seven S2 Application Blades in any combination can be supported by an S2 Network Node. S2 Application Blades are easy to install – S2 Nodes automatically recognize and address them without jumpers or switches. Power and communications are delivered to every S2 Application Blade via a ribbon cable bus, and the blade supplies 12VDC, up to 250mA per card reader.



*Up to seven S2 Application Blades in any combination can be supported by an S2 Network Node.*

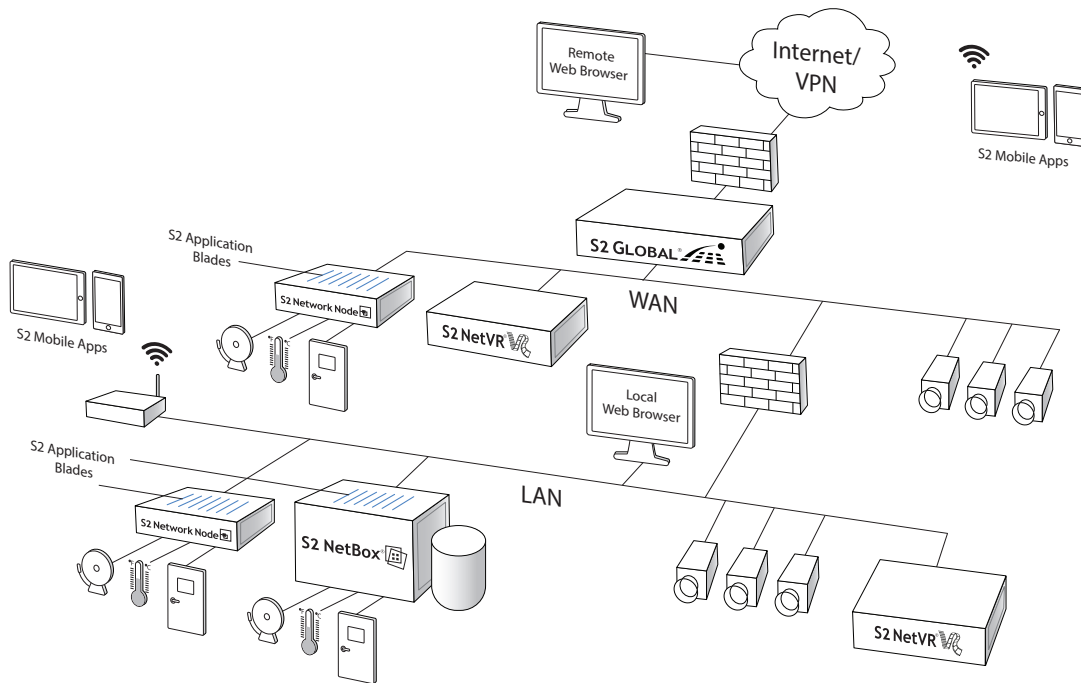
## Key Features

### Access Control

- **Portals:** Provides connections for up to two doors or other access points
- **Device Support:** Supports REX, DSM, door controllers, alarms, card readers and other devices
- **Reader Support:** Interfaces with Wiegand, magnetic stripe and keypad reader technologies
- **Input Configuration:** Includes four inputs configurable to normally open, normally closed, supervised and non-supervised circuits
- **Output Configuration:** Includes four output relays configurable for fail-safe or fail-secure operation

### System

- **Automatic Discovery:** Automatically connects to S2 Node without jumpers or switches
- **Hardware Compatibility:** Fits available blade slots in S2 NetBox®, S2 NetBox VR Quatro, S2 Network Node and S2 Network Node VR hardware



*Schematic only. Not a network diagram.*

## Specifications – S2 Access Control Application Blade

Access Control		General (continued)	
Readers	2	Storage Temperature	-4° – 158°F (-20° – 70°C)
Reader Compatibility	Wiegand Data0/Data1	Operating Environment	Humidity 85%, non-condensing 35° C
Supervised Inputs	4	Regulatory Approvals	UL, CE, RoHS
Input Supervision	Quad State (Open / Short / Normal / Alarm) Resistors value = 1K	Warranty	2 years hardware
Selection per Input	Dual Resistor / Single Series Resistor / Single Parallel Resistor / Unsupervised	Cabling Requirements	
Input Circuit Types	2-pin supervised	Reader Cable	Twisted, shielded, Belden 5304UE - 18 AWG (6 conductor) or equivalent
Outputs	4	Max Reader Cable Distance	500ft (152m)
Output Description	Dry, Form C, single-pole double-throw (C / NO / NC) contacts for load switching	Supervised Input Cable	Twisted, shielded 22 AWG Belden #9462
General		Max Supervised Input Cable Distance	2000ft (610m)
DC Input	12VDC, supplied via ribbon cable connection from S2 Node	Relayed Output Cable	Twisted, shielded 22 AWG Belden #9462 or equivalent
Relay Contact Rating	30VDC/AC, 2.5A inductive or 5.0A non-inductive	Max Relayed Output Cable Distance	Determined by the peripheral device
Reader Power	12VDC, 250mA/reader maximum	Part Numbers	
Dimensions (H, W, D)	7.5in x 4.0in x 0.83in (191mm x 102mm x 21mm)	S2-ACM	Access control application blade with support for 2 readers, 4 inputs and 4 outputs
Weight	6.77 oz (192 g)		
Operating Temperature	32°F – 95°F (0°C – 35°C)		

For more information, please visit [www.s2sys.com](http://www.s2sys.com).