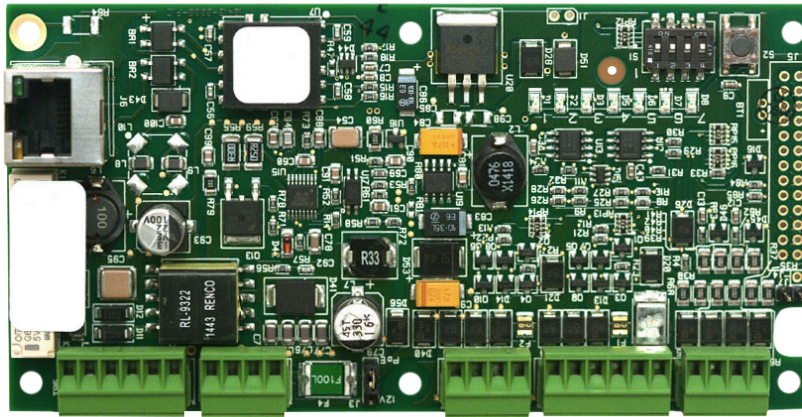


# Intelligent Controller

## DS-501



## Description

The DS-501 is an edge-capable intelligent controller that is expandable up to 8 downstream SIO controllers and up to 16 DS-51 network ready door controllers (for a total of 17 doors/openings). Easy installation with Power over Ethernet (PoE) makes the high performance, Ethernet ready DS-501 a top choice for a single-door controller. Once configured, the intelligent controller functions independently of the host and can control access and manage sophisticated device processes (such as anti-passback and point linking) both onboard and downstream of the DS-501 without host intervention.

Offering powerful flexibility, the DS-501 can interface with an array of reader technologies for a single opening. The controller supports separate in/out readers and technologies: Wiegand, clock and data, RS-485, OSDP, magnetic stripe, F/2F, Supervised F/2F Readers, keypads, LCD, and biometrics. The DS-501 provides the versatility and reliability needed to deliver powerful innovation for system success and at the system's edge when needed.

## Application Notes

The DS-501 seamlessly interfaces a single opening to a larger system (up to 17 openings) for easy expansion. The DS-501 is PoE capable and sets the standard for powerful, reliable performance.

## Key Features and Benefits

- Multi-operating system interface
- Multi- card format support
- Multi-reader technology support
- AES 256 bit data encryption
- HSPD-12/FIPS201 Compliant
- UL 294 and UL 294B Recognized
- Alarm keypad support
- Function key support
- Biometric template support
- Connects to a Windows or Linux host for increased programming
- Supports a range of wired and wireless reader technologies
- Securely scales from one to 17 doors/ openings
- PoE enabled for full support of device and door peripherals

## Specifications

Model	DS-501
<b>INPUTS</b>	
Power Input	PoE Power Input 12.95W, compliant to IEEE 802.3af or 12Vdc ±10% 900 mA maximum power supply
Power Output	12Vdc @ 650mA including reader and AUX output
Reader Interface	Reader Power: PoE: 12 Vdc±10% or local power supply (12Vdc); PTC limited 180mA max Inputs: 2 general purpose programmable circuit type, and dedicated tamper
Outputs	2 relays Form C, 2A @ 30Vdc
Reader Ports	Two TTL reader ports or one 2-wire RS-485 reader port capable of supporting two readers
Keypad	Multiplexed with card data
LED	TTL compatible
Buzzer	Only with 'one-wire' LED
Dimensions	Without Bracket - 5.5" (140mm)W x 2.75" (70mm)L x 0.96" (24mm)H With Bracket -5.5" (140mm)W x 3.63" (92mm)L x 1.33" (34mm)H
Temperature	0-70°C operational -55-85°C storage
Humidity	10-95% RHNC
<b>CONNECTIVITY</b>	
Primary Port	10/100 Ethernet
Door Control	One physical barrier can be controlled using single or paired readers. Two reader ports: Mag, Wiegand, or RS-485 (RS-485 on one reader port capable of supporting two readers.)Two supervised inputs, two relays. Diagnostic LEDs. Dedicated tamper input.
Access Control	<ul style="list-style-type: none"> <li>• 240,000 Cardholders, 50,000 Transaction buffer</li> <li>• 32 Access Levels per cardholder</li> <li>• 19 digit (64-bit) UserId and 15 digit PIN numbers max.</li> <li>• Activation/Deactivation Dates</li> <li>• If/Then Macro capability</li> </ul>
Card Formats	<ul style="list-style-type: none"> <li>• 8 active card formats per DS-501. PIV-II, CAC,TWIC card compatible</li> <li>• Anti-passback support Nested area, hard, soft, or timed forgiveness</li> </ul>
Alarm Management	<ul style="list-style-type: none"> <li>• Normally open/Normally closed, unsupervised, supervised</li> <li>• Standard or custom end-of-line resistances</li> </ul>
Standards	UL 294 and UL 294B Recognized, CE Comp