



## SSP-D2

Open Options  
Intelligent Two Door Controller

Power for the Enterprise  
at small system prices



### SSP-D2 Features

- Native on-board 10/100 Ethernet for up to 10x faster throughput than traditional serial connections
- DHCP and static IP addressing support
- Built-in control for 2 access control doors (2 reader ports, 4 Form-C relay outputs, 8 supervised inputs)
- Standard 6 MB available non-volatile flash memory stores up to 250,000 cardholders\*
- Background firmware downloads with system configuration restored from flash memory for seamless updates.
- Storage and backup for 50,000 events
- 12 or 24 VDC input voltage
- Biometric template management
- AES 128-bit encryption option for host communications
- On-board readers support mag, Wiegand, and OSDP 485 readers and keypads
- Support for multiple card formats
- Diagnostic LEDs
- Dedicated inputs for tamper and power failure alarms
- Improved Area management and Anti-passback support
- Precision Access
- Elevator Control up to 128 floors
- If/Then Macro functionality

\* Based on estimated values and memory allocation options.

### Overview

The Open Options SSP-D2 is a native IP-ready intelligent controller with a built-in reader interface module allowing control of two doors right off the board and a total of 64 using additional reader and/or IO modules.

The SSP-D2 connects directly to the LAN and supports the new Open Supervised Device Protocol (OSDP) for bidirectional communication to RS-485 and biometric devices.

The integrated 10/100 Ethernet port not only means faster more efficient connections to the host, but also less equipment and connections to manage compared to earlier generation panels. Connecting over IP is simplified using DHCP for auto-assigning IP addresses and device name recognition for easy management with a DNS server.

When used in conjunction with DNA Fusion™, the Open Options SSP-D2 is the perfect solution that is scalable for any access control application.



# SSP-D2 Controller

## Specification

### Primary Power

DC input:

The SSP-D2 is for use in low voltage, power-limited, class 2 circuits only.

12 or 24 VDC  $\pm$  10%. 500 mA maximum (reader current not included)

12Vdc @ 250mA (plus reader current) nominal

24Vdc @ 150mA (plus reader current) nominal

3 V Lithium, type BR2325, BR2330, CR2330

Memory and Clock Backup

### Communication

Primary (Ethernet) Port:

10/100Base-T Ethernet high-speed port

Alternate Upstream Port 1:

RS-232 9600 to 115.2 Kbps async

Downstream Port 2:

RS-485 (2-wire) 9600 to 38.4 Kbps async

### Inputs

Tamper and Power Monitors:

Unsupervised, dedicated

Door status, REX, and AUX:

8 programmable inputs (normally open/closed/supervised/non-supervised)

### Outputs

Relay outputs:

4 Form-C 5 A at 30 VDC relay outputs (user-defined as strike or AUX)

### Reader Ports

DC output:

12VDC $\pm$ 10% regulated, current limited to 150mA for each reader OR

12 to 24VDC $\pm$ 10% (pass through) current limited to 150mA per reader

Reader Compatibility

Wiegand Data1/Data0, Magnetic Clock/Data, OSDP Compatible Devices

(Open Supervised Device Protocol RS-485)

### Environmental

Temperature:

Operating: 0° to 70° C (32° to 158° F)

Storage: -55° to 85° C (-67° to 185° F)

Humidity:

0 to 95% RHNC

### Mechanical

Dimensions:

6 x 8 x 1 in. (152 x 203 x 25 mm)

Weight:

9 oz. (255 g) nominal

### Listings/Approvals

UL Recognized Component

ROHS-compliant

Advanced Encryption Standard (AES) 128-bit communication algorithm

## Application

