S2 NetDoor™ MicroNode

Application Information for Version 4.1

Feature Summary

- Full support for 2 access control points
- Use anywhere in place of a standard S2 Network Node
- Input points (4) with programmable levels of supervision
- Relay outputs (4) for lock control or general use
- Wet/dry selection for direct strike/mag lock power
- Support for up to 20,000 access credentials
- Power over Ethernet (PoE) or 12v local power input
- Native TCP/IP network appliance
- Built-in authentication software secures data communication
- Conveniently fits in 6 x 6 inch standard electrical "J" box
- Automatically discoverable by S2 Network Controllers
- Visual configuration using any standard web browser
- 12v DC output for powering PIR and similar devices
- Tamper switch and status indicator included
- Available with housing or mounting plate
- 10-year onboard lithium memory and clock backup battery

Overview

The S2 NetDoor™ MicroNode brings new levels of convenience and capability to access control systems: two card readers, four inputs, four outputs, and one temperature point - all housed in a 7-inch square package. Beyond its convenient size is the fact that the S2 NetDoor can be powered by a standard 12 VDC supply or Power-over-Ethernet (PoE) which powers all components *including electric locking devices*.†

Small yet powerful: the S2 NetDoor controls two access points.

As a native IP-based network appliance, the S2 NetDoor communicates over familiar LANs or WANs after obtaining an IP address by DHCP or static configuration. Like all S2 components, the S2 NetDoor secures its own communications, making it safe for deployment over public networks, including the Internet. As with the larger S2 Network Node (S2NN), the MicroNode is automatically discovered and supports visual configuration in any web browser through the S2 NetBox network controller (S2NC).

Connection over an IP network using PoE is advantageous because it provides a single cable connection with a central point for battery backup. When using this method, all access control functions - including electric locks - continue to operate during power outages without the need for multiple independent battery backup units.

Because the S2 NetDoor is remote from the card readers and other components, it can be placed safely on the secure side of a barrier (typically in a wall or drop-ceiling) so that compromising an externally mounted card reader does not expose the data network. In fact, the MicroNode is typically a direct replacement for legacy two-reader access control devices, making it the ideal retrofit device for older technology access control systems without replacement of readers, inputs, or lock outputs. S2 NetDoor even provides a 12 VDC output for powering PIRs and similar REX devices.

The S2 NetDoor MicroNode is supplied in a 7-inch square mounting box with tamper switch, status indicator light, and keyed lock. The board set is mounted to a removable back plate to facilitate wiring in confined spaces.

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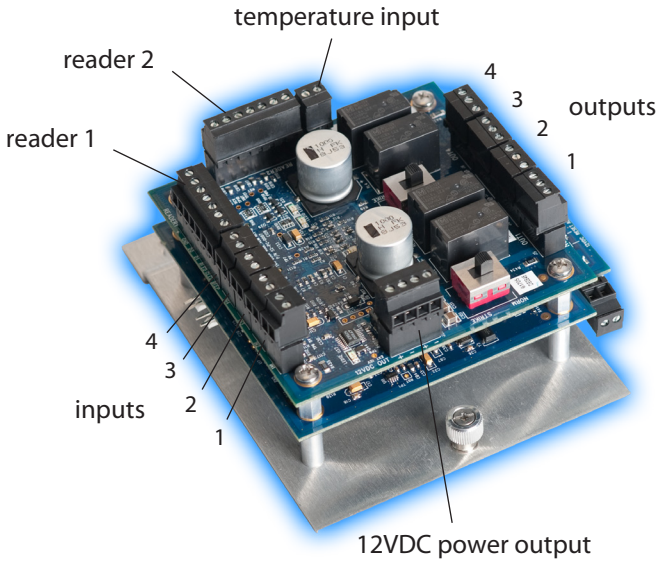
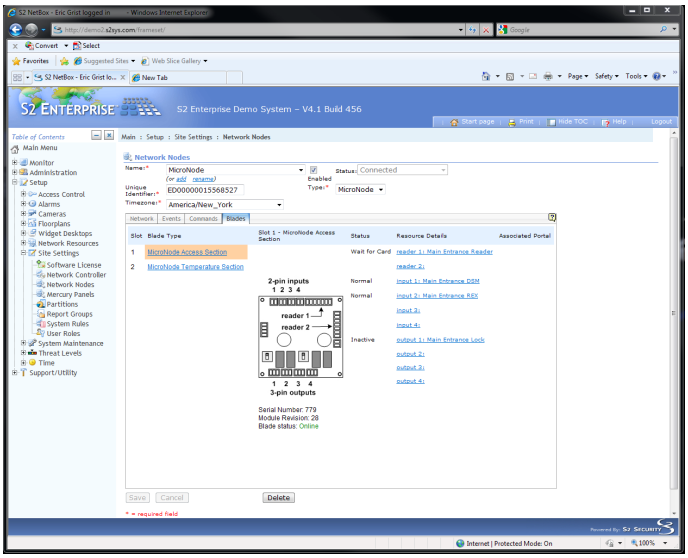
† Supports two electric strikes or one magnetic lock when using PoE.

S2 NetDoor in Detail



Connection points of access control and temperature components.



Configuration of the S2 NetDoor MicroNode is made fast and easy with the visual configuration and autodiscovery capabilities of the S2 NetBox.

Specifications

Card records per S2 Network Node	20,000
Offline history transactions	27,000
Card readers	2
Alarm points	4
Relays	4
Temperature points (analog)	1
IP address determination	DHCP or static

Physical dimensions (boards)	3.75" x 3.75" x 2.5" (d)
	9.5 x 9.5 x 6.4 cm
Physical dimensions (enclosure)	7.0 " x 7.0 " x 3.5" (d)
	17.8 x 17.8 x 8.9 cm
Power supply voltage	12 VDC (2 A min) or PoE
Steady state max. power to readers, locks, and external devices	1.1A @ 12 VDC (Ext.) 500mA @ 12 VDC (PoE)
Operating temperature	0° - 45°C

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