LenelS2 Access Control Application Blade

Overview

LenelS2™ Access Control Application Blade is a two-reader interface board with reader, input and output points to support a wide range of devices. Of the four types of LenelS2 Application Blades, the Access Control Application Blade offers the largest variety of connections.

Each Access Control Application Blade supports up to two doors or other access points, interfacing with OSDP™, 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 outputs can be configured for locks or auxiliary devices.

Up to seven LenelS2 Application Blades in any combination can be supported by a Network Node. LenelS2 Application Blades are easy to install – Network Nodes automatically recognize and address them without jumpers or switches. Power and communications are delivered to every LenelS2 Application Blade via a ribbon cable bus, and the blade supplies 12VDC, up to 250mA, per card reader.
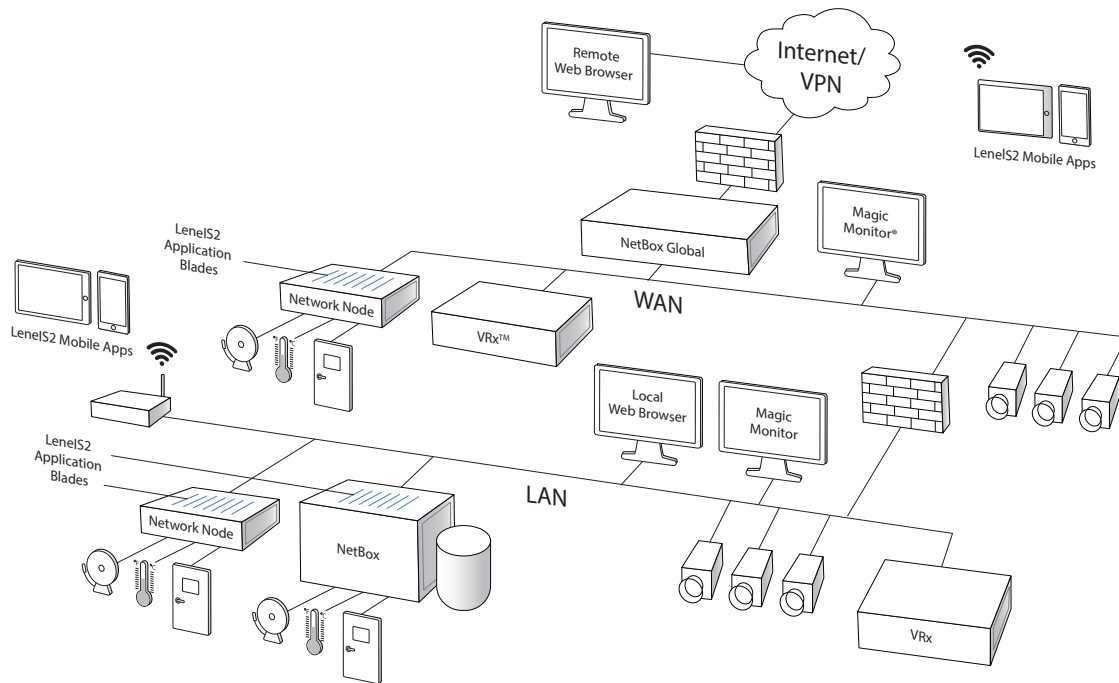
Key Features

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 OSDP, 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**: Four outputs can be configured for locks or auxiliary devices.

System

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

Up to seven LenelS2 Application Blades in any combination can be supported by a Network Node.

Schematic only. Not a network diagram.

Specifications – LenelS2 Access Control Application Blade

Access Control

Readers	2
Reader Compatibility	OSDP (RS485) Wiegand (Data0/Data1)
Supervised Inputs	4
Input Supervision	Quad State (Open / Short / Normal / Alarm) Resistors value = 1K
Selection per Input	Dual Resistor / Single Series Resistor / Single Parallel Resistor / Unsupervised
Input Circuit Types	2-pin supervised, dry contact only
Outputs	4
Output Description	Dry, Form C, single-pole double-throw (C / NO / NC) contacts for load switching
Relay Contact Rating	30VDC/AC, 2.5A inductive or 5.0A non-inductive

General

Power Input	Powered via ribbon cable connection from Network Node Blade
Reader Power	12VDC, 250mA/reader maximum
Dimensions (H, W, D)	7.5in x 4.0in x 0.83in (191mm x 102mm x 21mm)

General (continued)

Weight	6.77 oz (192 g)
Operating Temperature	32°F – 95°F (0°C – 35°C)
Storage Temperature	-4° – 158°F (-20° – 70°C)
Operating Environment	Humidity 85%, non-condensing 35° C
Regulatory Approvals	UL, CE, RoHS
Warranty	2 years hardware

Cabling Requirements

Reader Cable	Refer to reader manufacturer's installation guide/specifications
Max Reader Cable Distance	Refer to reader manufacturer's installation guide/specifications
Supervised Input Cable	Twisted, shielded 22 AWG Belden #9462 (or similar)
Max Supervised Input Cable Distance	2000ft (610m)
Relayed Output Cable	Refer to output device manufacturer's installation guide/specifications
Max Relayed Output Cable Distance	Refer to output device manufacturer's installation guide/specifications

Part Numbers

S2-ACM	Access control application blade with support for 2 readers, 4 inputs and 4 outputs

LENEL·S2

For more information, please visit lenels2.com.

Specifications subject to change without notice.

S2022521

Carrier