HID®

EdgeReader®
Solo ESR40

IP INTELLIGENCE AT THE DOOR WITH INTEGRATED iCLASS® READER FOR STAND-ALONE APPLICATIONS • 83120B

Features:

- Embedded User Interface, no external software requirement
- Remotely managed via standard web browser
- Web Browser Security — Edge® Solo products use SSL 3.0 (Secure Socket Layer) and TLS 3.1 (Transport Layer Security) to establish a secure web browser connection.
- Works within DHCP or Static IP networks for plug-and-play installation
- Multi Language Support — Edge Solo supports the following languages: English, French, German, Spanish (International), Russian, Portuguese (Brazilian), Italian, Chinese (Simplified), Japanese, Korean, Hindi, Dutch and Turkish.
- "Door Dashboard" accesses door commands, status, alarms, and recent events from all screens
- Back-up and restore of data from user PC
- Built-in diagnostics
- Installer "calling card" enables inclusion of contact information for user support
- User upgradable firmware
- Built-in help screens
- Manages 1000 cardholders/credentials
- Manages 8 schedules and 3 intervals each day
- Manages Card only, PIN only, Card and PIN
- View last 5000 events
- Standardized report generation, including CSV export
- Manages PIN Suppression Schedules
- First Person In (Snow day) Schedules
- Built-in 802.3af Power over Ethernet (PoE), with 600 mA available for external field devices and locking hardware
- Easily migrates to a host based system — (OEM OR CS)
  After Upgrade:
    • 44,000 credentials
    • 65,000 Schedules
    • Full Edge/VertX® capacities
- Wet or Dry door relays
- Permits local laptop computer connections for diagnostics and configuration
- UL® 294 Listed — EdgeReader is listed for use in UL installations where exposure is controlled to only authorized persons.

- **Simplicity** — Control functions for a single door and HID iCLASS® reader in one device with the same footprint as a traditional reader.

- **Management** — Remotely managed over the network via standard web browser.

- **Real Cost Savings** — Network access is CAT-5 for communications and Power over Ethernet (PoE). Eliminates the need for separate power supplies.

- **Established Open Architecture** — Built on the HID OPIN® platform, can be remotely reconfigured to a system reader in a host environment.

The HID EdgeReader® Solo IP Access Solution puts control and user interface at the door — right inside the reader. The EdgeReader Solo ESR40 is a cost-effective, stand-alone, single-door IP access control solution. This easy-to-use solution enables remote management and report generation via standard web browser. User information, administration, door configuration, and retrieval of events are done through a user-friendly, instructional web environment.

Providing "Intelligence to the Door," the flexible EdgeReader Solo ESR40 includes an integrated iCLASS® reader. And the EdgeReader Solo ESR40 IP Access Solution can be converted from stand-alone operation to a system reader for a host environment quickly and easily through the web browser. There is never a need to go to the door.

HID

Mounting:
Mount to a single-gang style electrical box with two screws. The EdgeReader™ includes tamper protection for this type of installation to secure all wiring within the electrical box. For indoor mounting only.

Non-latching wet/dry relay outputs for:
- 1 door strike
- 1 auxiliary device: door held/forced alarm, alarm shunt, host offline (comms down), or general purpose

Easily Interfaced:
- RJ-45 connector for Ethernet TCP/IP
- Quick-disconnect screw terminal connectors
- Easily upgrades to a Hosted software solution through the network interface

Inputs for:
- 1 door monitor switch
- 1 Request-to-Exit switch
- AC Fail Monitor*
- Battery Fail Monitor*
- Enclosure Tamper

*Can be configured as a general purpose input

SPECIFICATIONS

Mounting	Single-gang style electrical box
Dimensions	3.3″ W x 4.8″ H x 2.3″ D (83.8 mm x 121.9 mm x 57.9 mm)
Weight	14.7 oz (.400 kg)
Style	Attractive UL94 polycarbonate enclosure protects components from damage and all connections are fully identified by silk-screened nomenclature.
Browser Support	Firefox® versions 2 and 3 Windows® Internet Explorer® versions 6, 7, and 8
Card Data Formats	Supports any card data format up to 128 bits
Hardware	32-bit RISC CPU, 100 MHz processor
Memory	8 MB onboard Flash memory, 32 MB SDRAM, 256K SRAM
Visual Indicators	Two LEDs indicate power/network activity and device I/O activity.
Power Supply Requirements	1A @ 12–16 VDC maximum; **Recommended:** Power is supplied using the Power over Ethernet technology available with PoE (802.3af) enabled network devices; **Alternate:** Supervised linear power supply with battery backup, input surge protection, and AC Fail and battery low contact outputs. **Relays can be configured to supply power as follows: Available Power:** The EdgeReader is capable of supplying a total of 600 mA to field devices. Unpowered, relay contacts are rated for 2A @ 30 VDC **NOTE:** Use of a Listed Access Control/Burglary power-limited power supply is required for all Listed installations.
THE EDGEREADER IS INTENDED FOR USE IN INDOOR ENVIRONMENTS THAT COMPLY WITH THE FOLLOWING SPECIFICATIONS:	
Operating Temperature	32° to 122° F (0° to 50° C)
Operating Humidity	5% to 95% relative, non-condensing
Communication Ports	**Ethernet** — 10 or 100 Mbps; **RS-232** — port for modem or connectivity to other systems.
Certifications	UL® 294 Listed Component, CSA 205 for Canada, FCC Class A Verification (FCC & Industry Canada Certification for Reader Portion Only) ICES-003 Canada, EU (CE Marking), Australia (C-Tick Mark), New Zealand
Warranty	Warranted against defects in materials and workmanship for 18 months (see complete warranty policy for details).

CABLE SPECIFICATIONS

Ethernet	300 feet (100 m) Category 5 cable	ALPHA 9504C ALPHA 9405F
Input Circuits	500 feet (150 m) 2-conductor, shielded 22 AWG 18 AWG	ALPHA 1292C ALPHA 2421C
Output Circuits	500 feet (150 m) 2-conductor 22 AWG 18 AWG	ALPHA 1172C ALPHA 1897C
RS-232	50 feet (15 m) 9-conductor, stranded 22 AWG	ALPHA 1299C ALPHA 58119

Minimum wire gauge depends on cable length and current requirements.
This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/)
This product includes cryptographic software written by Eric Young (eay@cryptsoft.com)

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