HID®

EdgeReader™ ERP40

IP INTELLIGENCE AT THE DOOR WITH INTEGRATED MULTICLASS™ READER FOR HOST SYSTEMS • 82125B

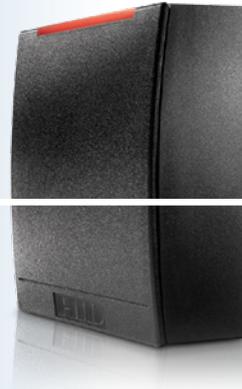**Features:**

- Stores up to 44,000 cards or credentials directly from the host
- 255 configurable priorities for supervised inputs/alarms
- Incorporates the HID OPIN® Technology TCP/IP API with an available Windows DLL tool
- Built-in 802.3af Power over Ethernet (PoE), with 600mA available for external field devices
- Accepts local connection option via laptop for diagnostics and configuration
- Connects to host on the IP network
- Controls and powers all access devices at the door
- Buffers up to 5,000 transactions if communication is disrupted with host and uploads when network communications is restored
- Controls and reports any passback (hard/soft/med)
- RS-232 serial port for optional back-up via modem
- UL® 294 Listed — Edge Reader 82125B is listed for use in UL installations where exposure is controlled to only authorized persons.

- **Complete** — IP access solution that combines complete controller functions and host interface with an multiCLASS™ RP40 Reader.
- **Real Cost Savings** — Network access is CAT-5 for communications and Power over Ethernet (PoE). Eliminates the need for separate power supplies or central controllers.
- **Established Open Architecture** — Built on the HID OPIN® platform and managed from a host application. Ideally suited for today's IT-centric security environment.

The HID EdgeReader™ IP Access Solution puts control and host interface at the door — right inside the HID contactless smart card reader. The HID EdgeReader ERP40 is a unique multiCLASS™ reader with an IP-enabled intelligent access control processor and host interface solution in a single unit. With the same footprint as traditional reader solutions, the EdgeReader ERP40 provides a complete and full-featured access control hardware/software infrastructure and contactless smart card read/write capability at "the edge" of the network for OEM software host systems. A perfect solution for new building installations, the EdgeReader ERP40 requires less wiring, and controls every control function at the door.

The cost-effective EdgeReader ERP40 is ideally suited for today's IT-centric security environment, addressing the requirements for an IP-based solution incorporating PoE

capability that takes advantage of existing CAT-5 cable infrastructure.

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Provides multi-technology card processing. Reads HID Prox, iCLASS®, DESFire® • ISO 15693 CSN (MyD, I Code, Tag It), ISO14443A CSN (MIFARE®), FeliCa™ CSN, Simple migration from HID Proximity to iCLASS. g an IP network software interface.

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
- RS-232 port for optional modem or connectivity to other systems
- Quick-disconnect screw terminal connectors
- External System Link capability enables direct integration with other security and building systems via RS-232, TCP/IP, or HTTP.

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.
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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