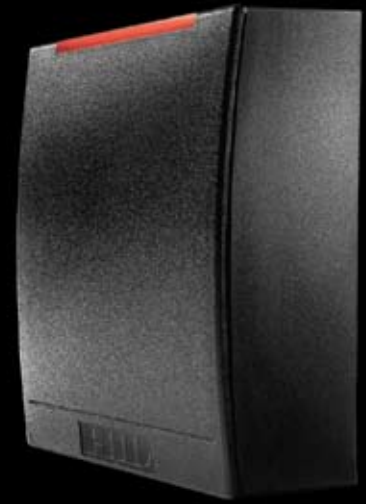


# EdgeReader™ ER40

IP Intelligence at the Door with Integrated iCLASS® Reader for Host Systems • 82120

- ▶ **Complete** - IP access solution that combines complete controller functions and host interface with an iCLASS R40 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



**EDGE™**

## ACCESS Intelligence @ the Door

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 ER40 is a unique iCLASS reader with an IP-enabled intelligent access control processor and host interface solution in a single unit. With the same footprint as a traditional reader, the EdgeReader ER40 provides a complete and full-featured access control hardware/software infrastructure and contactless smart card capability at "the edge" of the network for OEM software host systems. A perfect solution for new building installations, the EdgeReader ER40 requires less wiring and controls every access function at the door.

The cost-effective EdgeReader ER40 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.

The EdgeReader ER40 can be fully integrated into any host system utilizing an IP network software interface.

### 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

### 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.

### 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 allows for 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

### 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

### Cable Specifications

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

Minimum wire gauge depends on cable length and current requirements.

<b>Mounting</b>	Single-gang style electrical box
<b>Dimensions</b>	3.3" W x 4.8" H x 2.3" D (83.8 mm x 121.9 mm x 57.9 mm)
<b>Weight</b>	14.7 oz (.400 kg)
<b>Style</b>	Attractive UL94 polycarbonate enclosure protects components from damage and all connections are fully identified by silk-screened nomenclature.
<b>Card Data Formats</b>	Supports any card data format up to 128 bits
<b>Hardware</b>	32-bit RISC CPU, 100 MHz processor
<b>Memory</b>	8 MB onboard Flash memory 32 MB SDRAM 256K SRAM
<b>Visual Indicators</b>	Two LEDs indicate power/network activity and device I/O activity.
<b>Power Supply Requirements</b>	1 A @ 12-16 VDC maximum <b>Recommended:</b> Power is supplied using the Power over Ethernet technology available with PoE (802.3af) enabled network devices. <b>Alternate:</b> Supervised linear power supply with battery backup, input surge protection, and AC Fail and battery low contact outputs. <b>Relays can be configured to supply power as follows:</b> <b>Available Power:</b> The EdgeReader is capable of supplying a total of 600 mA to field devices. Unpowered, relay contacts are rated for 2 A @ 30 VDC
<b>Operating Temperature</b>	The EdgeReader is intended for use in indoor environments that comply with the following specifications: 32° to 122° F (0° to 50° C)
<b>Operating Humidity</b>	5% to 95% relative, non-condensing
<b>Communication Ports</b>	<b>Ethernet</b> – 10 or 100 Mbps <b>RS-232</b> – port for Modem or connectivity to other systems.
<b>Certifications</b>	UL 294 and UL 1076 Listed Component for the US pending, CSA 205 for Canada, FCC Class B Verification (FCC Class A Verification for reader portion only.) EMC for Canada, EU (CE Mark), Australia (C-Tick Mark), New Zealand, Japan
<b>Warranty</b>	Warrantied against defects in materials and workmanship for 18 months (See complete warranty policy for details).

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MKT-ER40\_DS\_EN



## ACCESS Intelligence @ the Door

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