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

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/soft-
ware 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

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Features

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

Specifications

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

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.

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	1 A @ 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 2 A @ 30 VDC

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 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
Warranty	Warrantied against defects in materials and workmanship for 18 months (See complete warranty policy for details).

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ACCESS Intelligence @ the Door

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