

# EdgeReader™ ERW400

Integrated Contactless Smart Card Reader with Single Door Access Control Processing and Host Interface • 82400

- ▶ **Advanced** - Blends advanced contactless smart card capabilities of iCLASS® with IP-based VertX™ platform
- ▶ **Seamless Interoperability** - Same open host API as VertX access controller
- ▶ **Cost-Effective** - Network and Power-over-Ethernet (PoE) enabled to use CAT-5 and LAN infrastructure for communications and power



## ACCESS intelligence.

The HID EdgeReader ERW400 is a unique iCLASS reader with an IP-enabled intelligent access control processor and host interface solution in a single unit. It is designed to provide 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 requires less wiring, is cost-effective and is ideally suited for today’s IT-centric security environment.

Today, as more IT departments become involved in the security system implementation decision-making process, they prefer that access control be managed over the network. The EdgeReader addresses this by offering an IP-based solution incorporating PoE capability that takes advantage of existing LAN and CAT-5 cable infrastructure. In addition, it can be fully integrated into any host system utilizing an IP network software interface.

### Key Features

- ▶ Connects with and stores a complete access control and configuration database for one controlled door and 44,000 cardholders
- ▶ Reports supervised inputs/alarms with 255 configurable priorities
- ▶ Includes a TCP/IP-based API with an available Windows DLL tool
- ▶ Enables direct, IP-based, two-way communication for iCLASS read/write applications
- ▶ Built-in 802.3af Power over Ethernet (PoE), with 600 mA available for external field devices
- ▶ Allows local connection of a laptop computer for diagnostics and configuration
- ▶ Connects to the host on the IP network
- ▶ Controls all connected devices
- ▶ Buffers up to 5,000 transactions offline and uploads to the host when communication is restored
- ▶ Controls and reports anti-passback (hard/soft/timed)
- ▶ RS232 serial port for optional back-up modem

# Features

# Specifications

### 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 RS232, 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>	<ul style="list-style-type: none"> <li>• 8 MB onboard Flash memory</li> <li>• 32 MB SDRAM</li> <li>• 256K SRAM</li> </ul>
<b>Visual Indicators</b>	Two LEDs indicate power/network activity and device I/O activity.
<b>Power Supply Requirements</b>	<p>1 A @ 12-16VDC maximum</p> <p><b>Recommended:</b> Power is supplied using the Power over Ethernet technology available with PoE (802.3af) enabled network devices.</p> <p><b>Alternate:</b> Supervised linear power supply with battery backup, input surge protection, and AC Fail and battery low contact outputs.</p> <p><b>Relays can be configured to supply power as follows:</b></p> <p><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 @ 30VDC</p>
<b>Operating Temperature</b>	32° to 122° F (0° to 50° C)
<b>Operating Humidity</b>	5% to 95% relative, non-condensing
<b>Communication Ports</b>	<p><b>Ethernet</b> – 10 or 100 Mbps</p> <p><b>RS-232</b> – port for Modem or connectivity to other systems.</p>
<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>	Warranted against defects in materials and workmanship for 18 months (See complete warranty policy for details).

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**ACCESS** experience.

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