

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

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	<ul style="list-style-type: none"> • 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	<p>1 A @ 12-16VDC maximum</p> <p>Recommended: Power is supplied using the Power over Ethernet technology available with PoE (802.3af) enabled network devices.</p> <p>Alternate: Supervised linear power supply with battery backup, input surge protection, and AC Fail and battery low contact outputs.</p> <p>Relays can be configured to supply power as follows:</p> <p>Available Power: The EdgeReader is capable of supplying a total of 600 mA to field devices. Unpowered, relay contacts are rated for 2 A @ 30VDC</p>
Operating Temperature	32° to 122° F (0° to 50° C)
Operating Humidity	5% to 95% relative, non-condensing
Communication Ports	<p>Ethernet – 10 or 100 Mbps</p> <p>RS-232 – port for Modem or connectivity to other systems.</p>
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	Warranted against defects in materials and workmanship for 18 months (See complete warranty policy for details).

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