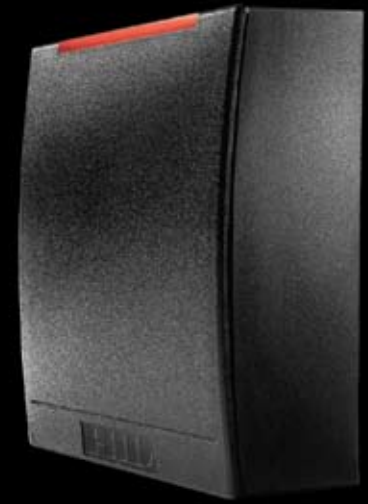


# EdgeReader™ ERW400

IP Intelligence at the Door with Integrated iCLASS® read/write for Host Systems • 82121B

- ▶ **Advanced** - Leading iCLASS® read/write capabilities
- ▶ **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 -- with read/write capabilities. The HID EdgeReader ERW400 is a unique read/write 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 ERW400 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 ERW400 requires less wiring, while controlling every access function at the door.

The cost-effective EdgeReader ERW400 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 ERW400 can be fully integrated into all host systems utilizing any 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
- ▶ Enables direct, IP-based, two-way communication for iCLASS read/write applications
- ▶ 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
- ▶ UL294 Listed - EdgeReader 82121B is listed for use in UL installations where exposure is controlled to only authorized persons.

### 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)<br>Category 5 cable                          | ALPHA 9504C<br>ALPHA 9405F |
| <b>Input Circuits</b>  | 500 feet (150 m)<br>2-conductor, shielded<br>22 AWG<br>18 AWG | ALPHA 1292C<br>ALPHA 2421C |
| <b>Output Circuits</b> | 500 feet (150 m)<br>2-conductor<br>22 AWG<br>18 AWG           | ALPHA 1172C<br>ALPHA 1897C |
| <b>RS-232</b>          | 50 feet (15 m)<br>9-conductor, stranded<br>22 AWG             | ALPHA 1299C<br>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<br>(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<br>32 MB SDRAM<br>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<br><b>Recommended:</b> Power is supplied using the Power over Ethernet technology available with PoE (802.3af) enabled network devices.<br><b>Alternate:</b> Supervised linear power supply with battery backup, input surge protection, and AC Fail and battery low contact outputs.<br><b>Relays can be configured to supply power as follows:</b><br><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<br><b>Note:</b> Use of a Listed Access Control / Burglary power-limited power supply is required for all Listed installations. |
| <b>Operating Temperature</b>     | The EdgeReader is intended for use in indoor environments that comply with the following specifications:<br>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<br><b>RS-232</b> – port for Modem or connectivity to other systems.   |
| <b>Certifications</b>            | UL 294 Listed Component, CSA 205 for Canada, FCC Class A Verification (FCC and Industry Canada Certification for Reader only), ICES-003 Class A Canada, EU (CE Marking), Australia (C-Tick Mark), New Zealand  |
| <b>Warranty</b>                  | Warrantied against defects in materials and workmanship for 18 months (See complete warranty policy for details).  |

© 2008 HID Global Corporation. All rights reserved. HID, the HID logo, EDGE, EdgeReader, EdgePlus, OPIN, and iCLASS are trademarks or registered trademarks of HID Global in the U.S. and/or other countries. All other trademarks, service marks, and product or service names are trademarks or registered trademarks of their respective owners. Rev. 3/2008 MKT-ERW400\_REVB\_DS\_EN



## ACCESS Intelligence @ the Door

hidglobal.com

### HID Global Offices:

**Corporate North America**  
9292 Jeronimo Road  
Irvine, CA 92618-1905  
U.S.A.  
Phone: (949) 598-1600  
Fax: (949) 598-1690  
EDGE Sales Support:  
(877) 276.3343

**Asia Pacific**  
19/F 625 King's Road  
North Point  
Island East  
Hong Kong  
Phone: +852 3160-9800  
Fax: +852 3160-4809

**Latin America**  
Circunvalacion Ote. #201 B  
Despacho 2  
Col. Jardines del Moral  
Leon 37160, Gto.  
Mexico  
Phone: +52 477 779 1492  
Fax: +52 477 779 1493

**Europe, Middle East & Africa**  
Homefield Road  
Haverhill, Suffolk  
CB9 8QP  
England  
Phone: +44 (0) 1440 714 850  
Fax: +44 (0) 1440 714 840