

# EdgePlus™ E400

IP Intelligence at the Door Incorporating any Reader in a Host System • 82000B

- ▶ **True Flexibility** - Provides network connectivity for any existing or new Wiegand or compatible HID Clock and Data readers
- ▶ **Real Cost Savings** - Network access is CAT-5 for communications and Power over Ethernet (PoE). Eliminates the need for separate power supplies and controllers
- ▶ **Established Open Architecture** - Built on the HID OPIN® platform and managed from a host application. Ideally suited for today's IT-centric security environments



**EDGE™**

## ACCESS Intelligence @ the Door

The HID EdgePlus™ IP Access Solution puts control and host interface right at the door. The EdgePlus E400 is a true IP access solution that manages up to 44,000 cardholders or credentials in complete and full-featured host systems. And an EdgePlus can be placed anywhere at the door to address all security requirements. A fully integrated processor right at the door that's an ideal solution for retrofits or new installations, EdgePlus requires less wiring and uses standard CAT-5 or 6 cabling for both data and power.

With a separately connected reader, EdgePlus is a perfect solution for migrating existing reader installations to the "edge" of the network. Whether the enterprise is iCLASS®, Prox, FlexSmart®, FlexPass®, MIFARE®/DESFire®, CRESCENDO™ or Wiegand output reader, EdgePlus delivers Intelligence at the Door.

### Features

- ▶ Connects with and stores a complete access control and configuration database for one controlled door and 44,000 cardholders
- ▶ 255 configurable priorities for supervised inputs/alarms
- ▶ Compatible reader protocols includes all wiegand or HID formats up to 128 bits and iCLASS RS-232
- ▶ Incorporates the HID OPIN® Technology TCP/IP API with an available Windows DLL tool
- ▶ Enables IP-based, two-way communication with iCLASS reader/writer, LCD keypad and biometric reader products
- ▶ Built-in 802.3af Power over Ethernet (PoE), with 700 mA 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 are restored
- ▶ Controls and reports any passback (hard/soft/med)
- ▶ RS-232 serial port for optional back-up via modem
- ▶ UL294 Listed - EdgePlus 82000B is UL294 listed for use with all Listed HID Global models: iCLASS, HID Prox, Indala Prox, bioCLASS, SmartID, SmartTRANS, and Mag Stripe series, up to 128-bit formats. EdgePlus is UL listed for installation within the protected area; attached remote Readers may be located outside the protected area.

# Features

# Specifications

## Mounting

Mount to a single gang style electrical box with two screws. The EdgePlus™ 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 reader
- 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>Wiegand</b>	500 feet (150 m) 9-conductor, stranded, overall shield 22 AWG	ALPHA 1299C
<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 1.5" D (83.8 mm x 121.9 mm x 36.3 mm)
<b>Weight</b>	6.8 oz (.195 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 E400 is capable of supplying a total of 700 mA to field devices. This power may be shared between a reader and one or two additional field devices. Unpowered, relay contacts are rated for 2 A @ 30 VDC <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: 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>Reader</b> - Wiegand, HID Clock and Data, or in iCLASS RS-232
<b>Certifications</b>	UL 294 Listed Component, CSA 205 for Canada, FCC Class A Verification, 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).



## ACCESS Intelligence @ the Door

### HID Global Offices:

**Corporate North America**  
15370 Barranca Pkwy  
Irvine, CA 92618  
U.S.A.  
Tel: 1 800 237 7769  
Tel: +1 949 732-2000  
Fax: +1 949 732-2360

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

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

**Europe, Middle East & Africa**  
Haverhill Business Park  
Phoenix Road  
Haverhill, Suffolk  
CB9 7AE  
England  
Tel: +44 (0) 1440 714 850  
Fax: +44 (0) 1440 714 840

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