



HID EdgePlus™ E400

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

Overview

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®, CRESCENDOTM or Wiegand output reader, EdgePlus delivers. Get Intelligence at the Door with EdgePlus for use with Matrix Frontier™ Universe and Web Essentials systems.



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.

ACCESS Intelligence @ the Door

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

Features

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.

Specifications

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 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

Note: Use of a Listed Access Control/Burglary power-limited power supply is required for all Listed installations.

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

The EdgeReader is intended for use in indoor environments that comply with the following specifications:

Temperature

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.

Reader – Wiegand, HID Clock and Data, or in iCLASS RS-232

Certifications

UL 294 Listed Component, CSA 205 for Canada, FCC Class A Verification (FCC & Industry Canada Certification for Reader Portion Only)

ICES-003 Canada, EU (CE Marking), Australia (C-Tick Mark), New Zealand

Warranty

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

Cable Distance

Ethernet – 300 feet (100 m) to next device using Category 5 cable, ALPHA 9504C or ALPHA 9405F

Input Circuits – 500 feet (150 m) to next device using 2-conductor, shielded, 22 AWG, 18 AWG, ALPHA 1292C or ALPHA 2421C

Output Circuits – 500 feet (150 m) to next device using 2-conductor, shielded, 22 AWG, 18 AWG, ALPHA 1292C or ALPHA 2421C

RS-232 – 50 feet (15 m) to next device using 9-conductor, stranded, 22 AWG, ALPHA 1299C or ALPHA 58119

Minimum wire gauge depends on cable length and current requirements.



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