HID®

EdgePlus®
E400

IP INTELLIGENCE AT THE DOOR INCORPORATING ANY READER IN A HOST SYSTEM • 82000B

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
- 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)
- UL® 294 Listed — EdgePlus 82000B is UL® 294 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.

- **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.

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.

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.

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
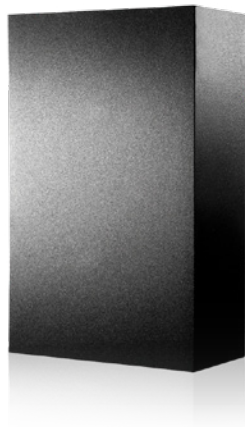
Easily Interfaced:
- RJ-45 connector for Ethernet TCP/IP
- Quick-disconnect screw terminal connectors
- External System Link capability enables direct integration with other security and building systems via TCP/IP, or HTTP.

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

SPECIFICATIONS

Mounting	Single-gang style electrical box
Dimensions	3.3″ W x 4.8″ H x 1.5″ D (83.8 mm x 121.9 mm x 36.3 mm)
Weight	6.8 oz (.195 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	1A @ 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 2A @ 30 VDC **Note:** Use of a Listed Access Control/Burglary power-limited power supply is required for all Listed installations.
THE EDGEREADER IS INTENDED FOR USE IN INDOOR ENVIRONMENTS THAT COMPLY WITH THE FOLLOWING SPECIFICATIONS:
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;
Certifications	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
Warranty	Warranted against defects in materials and workmanship for 18 months (see complete warranty policy for details).

CABLE SPECIFICATIONS

Ethernet	300 feet (100 m) Category 5 cable	ALPHA 9504C ALPHA 9405F
Wiegand	500 feet (150 m) 9-conductor, stranded, overall shield 22 AWG	ALPHA 1299C
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

Minimum wire gauge depends on cable length and current requirements.

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