HID®

EDGE EVO® EH400-K Networked Controller

Interface to Standard Door REX, DPS, Lock and Wiegand / C&D Reader

SINGLE DOOR NETWORKED ACCESS CONTROLLER FEATURING POWER OVER ETHERNET

- **Open Architecture** – Development platform enables use of hardware with any OPIN compliant access control software from a wide variety of partners.

- **High Performance** – Powerful platform performance increases door uptime.

- **Power Over Ethernet (PoE)** – Reduces wiring costs by powering controller, reader and door lock over one CAT-5 wire.

- **High Security** – Increased security with encrypted data exchange around the door and between controller and Hi-O iCLASS® Readers.

Cable Specifications

Ethernet:
- 300ft (100m), CAT-5
- ALPHA 9504C, ALPHA 9405F

Wiegand / C&D:
- 500ft (150m), 9-conductor stranded, overall shield
- 22AWG ALPHA 1299C

Input Circuits:
- 500ft (150m), 2-conductor shielded
- 22AWG ALPHA 1292C
- 18AWG ALPHA 2421C

Output Circuits:
- 500ft (150m), 2-conductor shielded
- 22AWG ALPHA 1172C
- 18AWG ALPHA 1897C

Hi-O CANbus:
- 100ft (30m) total bus length
- 30ft (10m) length between drops
- 22AWG, 0.65mm, 0.33mm

HID Global's Networked Access Solutions provide an open architecture development platform that enables HID's software partners to deploy a wide variety of versatile access control systems that protect their customers' hardware investments.

As part of HID Global's Networked Access Solutions family, the EDGE EVO® EH400-K is a single-door access control panel that enables cost-effective installation and high performance access control functionality.

The EH400-K makes local door decisions and can interface with one Wiegand/ Clock-and-Data reader and one (or two) Hi-O iCLASS readers. An additional Wiegand/Clock-and-Data reader can be attached using a separate Hi-O Interface

Module. The EH400-K is mountable on single- or double-gang electrical boxes and is roughly the size of a triple-gang electrical box. The EH400-K has an optical tamper, and interface to 4 discrete inputs and 2 outputs (lock and auxiliary).

As customer requirements change over time and new software provider solutions enter the market, EDGE EVO solutions enable the replacement of head end software without visiting the access control panel, reducing change out costs.

EDGE EVO solutions are created for both on site system administration as well as service oriented offsite solutions, depending on the OEM software provider's total solution.

Features:

- Provides a complete and fully functional hardware/firmware infrastructure for IP access control software host systems.
- Supports Power Over Ethernet (PoE), enabling cost-effective installation utilizing existing network infrastructure.
- Stores a complete access control and configuration database for one door with one or two readers and 125,000 cardholders.
- Provide access control processing, host functionality and power for a single door, including one or two readers, lock, door status, request-to-exit device and auxiliary sounder.
- Utilizes on-board jumpers to select 12 or 24 VDC power to locks and AUX output when powering device over PoE or 24 VDC.
- Provides encrypted door bus using Hi-O technology so that controller and Hi-O enabled readers and door components communicate securely.
- Connects to the host and other devices on a TCP/IP network.
- Receives and processes real-time commands from the host software application while reporting all activity to host. Buffers up to 99,999 transactions.
- Provides fully functional offline operation when not actively communicating with the host access control software.
- Interfaces with one or two Hi-O compliant readers and one Wiegand or Clock-and-Data reader (expandable to two).
- Spacer and reverse mount accessories (sold separately).

ASSA ABLOY

An ASSA ABLOY Group brand

North America: +1 949 732 2000
Toll Free: 1 800 237 7769
Europe, Middle East, Africa: +49 6123 791 0
Asia Pacific: +852 3160 9800
Latin America: +52 (55) 5081-1650

hidglobal.com

SPECIFICATIONS

Model (and Part #)	EH400-K (82000CKE1A)
Mounting Holes	US Double-gang, US Single-gang and EU / APAC 60mm
Dimensions	6.1" W x 4.8" H x 1.5" D (154.9 mm x 122.5 mm x 37.1 mm)
Weight	11.3oz (320g)
Housing Material	UL94 polycarbonate
Audio / Visual Indicators	Two LEDs on RJ-45 port for network; beeper for boot and tamper
Operating Temperature	32° to 122° F (0° to 50° C)
Operating Humidity	5% to 95% relative, non-condensing
Communication Ports	Ethernet (10/100), Hi-O CANbus, Wiegand or Clock-and-Data
Certifications*	UL294 (US) Listed Component, CSA 205 (Canada), FCC Class A (US), ICES-003 Class A (Canada), CE Mark EN 301 489-3 EN 55022 EN 50130-4 (EU), C-Tick AS/NZS CISPR 22 (Australia, New Zealand) & Korea (KCC)
Warranty	Warrantied against defects in materials and workmanship for 18 months (see complete warranty policy for details).
Input Power	
DC Input (MAX) @ PoE	14.4W (300mA @ 48VDC)
DC Input (MAX) @ AUX +12VDC	18W (1500mA @ 12VDC)
DC Input (MAX) @ AUX +24VDC	36W (1500mA @ 24VDC)
Supervised Inputs Power (MAX)	0.025W (5mA sink, 5V nominal) 0 to +5VCD Ref
Output Power (MAX) for total system (all field devices)	
DC Input @ PoE	9.6W
DC Input @ AUX +12VDC	14.4W
DC Input @ AUX +24VDC	28.8W
Hi-O CANbus Output Voltage, DC Input = PoE	24VDC
Hi-O CANbus Output Voltage, DC Input = AUX	AUX +VDC
Output Power (MAX) for individual field devices, DC Input = PoE	
Hi-O Device on CANbus	9.6W (400mA @ 24VDC)
Wiegand / C&D Reader	7.1W (580mA @ 12.25VDC)
Wet Output (@12VDC)	6.9W (580mA @ 12VDC)
Wet Output (@24VDC)	8.6W (360mA @ 24VDC)
Output Power (MAX) for individual field devices, DC Input = 12VDC	
Hi-O Device on CANbus	14.4W (1200mA @ 12VDC)
Wiegand / C&D Reader	3.9W (320mA @ 12.25VDC)
Wet Output (@12VDC)	8.4W (700mA @ 12VDC)
Output Power (MAX) for individual field devices, DC Input = 24VDC	
Hi-O Device on CANbus	28.8W (1200mA @ 24VDC)
Wiegand / C&D Reader	7.3W (600mA @ 12.25VDC)
Wet Output (@12VDC)	8.4W (700mA @ 12VDC)
Wet Output (@24VDC)	16.8W (700mA @ 24VDC)
Relay Rating	
Relay Contact Rating (Dry Output)	2A @ 30VDC

*For Plenum rating, install within NEMA Type 1 Enclosure