EDGE EVO® EH400 Hi-O Networked Controller

Interface to Hi-O Door Components and Hi-O iCLASS 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 and between controller and all Hi-O enabled door components.

Cable Specifications

Ethernet:

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

Hi-O CANbus:

- 100ft (30m) total bus length
- 30ft (10m) length between drops
- 22AWG, 0.65mm, 0.33mm2

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 is a single-door access control panel that enables cost effective installation and high performance access control functionality.

The EH400 makes local door decisions and can interface with one or two Hi-O iCLASS readers.

Mountable on EU 60mm and US single-gang electrical boxes, the EH400 is roughly the size of an R40 iCLASS reader.

The EH400 has an optical tamper and interfaces to Hi-O compliant devices, including Hi-O readers, Hi-O REX, Hi-O Strike and Hi-O Interface modules.

EDGE EVO solutions provide access to a complete ecosystem of partner solutions to enable customizable products that leverage the unique power of individual software provider offerings.

Solutions are created for both on-site system administration as well as service oriented off-site 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.
- 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.
- Provides access control processing, host interface and power for a single door, including a separate HI-O iCLASS reader, Hi-O lock and Hi-O request-to-exit device. (Compatible with non-Hi-O door components with separately purchased Hi-O Interface Module.)
- 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.
- Connects directly to a Hi-O iCLASS reader(s) to support 1 or 2 readers.

SPECIFICATIONS

Model (and Part #)	US Single-gang and EU / APAC 60mm
Mounting Holes	US Single-gang and EU / APAC 60mm
Dimensions	3.2" W x 4.7" H x 0.9" D (81.5 mm x 119.6 mm x 22.2 mm)"
Weight	6.3oz (180g)
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
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 and individual field devices	
DC Input @ PoE	9.6W (400mA @ 24VDC)
DC Input @ AUX +12VDC	14.4W (1200mA @ 12VDC)
DC Input @ AUX +24VDC	28.8W (1200mA @ 24VDC)
Hi-O CANbus Output Voltage, DC Input = PoE	24VDC
Hi-O CANbus Output Voltage, DC Input = AUX	AUX +VDC
Hi-O Device Compatibility	
Reader and Module	Hi-O iCLASS R40 EDGE EVO EVM Voltage Module**

NOTES:
Combined power of all field devices cannot exceed "Output Power (MAX) for total system".
** Required for Hi-O CANbus > +16VDC.

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