

EDGE EVO® EHR40-L Controller/Reader and Module

Interface to a Standard Door Lock



SINGLE DOOR NETWORKED DOOR CONTROLLER / CONTACTLESS ICLASS® READER AND INTERFACE MODULE

- **Open Architecture** - Development platform enables use of hardware with any OPIN compliant access control software from a wide variety of partners.
- **Integrated Reader** - Integrated controller/reader provides 13.56 MHz iCLASS smart card compatibility and controller logic in one device.
- **Power Over Ethernet (PoE)** - Reduces wiring costs by powering the controller/reader and module/door components using one CAT-5 wire.
- **Single CAT5 and Strike Connection Location** - Controller/reader and module wiring terminate within single-gang box, allowing for easy wiring of IP to reader and strike to reader.

Cable Specifications

Ethernet:

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

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, 0.33mm²

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® EHR40-L Controller/Reader and Interface Module is a single-door access control panel with a combined reader and a separate single-output lock interface that enables cost effective installation and simple door control.

The solution is designed to lower security doors as it does not monitor door position or requests to exit. The controller/reader is installed at the door, and the included

Hi-O interface module (ELM) is mounted within a US-style single-gang box (the Hi-O module can be located elsewhere, such as within a hollow door frame). The controller/reader and module are connected using the secure Hi-O bus and an additional Hi-O iCLASS® reader can be attached to the EHR40-L controller/reader's Hi-O bus for in/out reading. The EHR40-L also offers interface to 13.56 MHz compliant credentials, including iCLASS.

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 onsite 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.
- Integrated reader processes 13.56 MHz iCLASS credentials, ISO14443A CSNs.
- Provides access control processing, host interface and power for a single door, including one or two readers and one lock.
- Utilize module jumpers to select 12 or 24 VDC power to lock output when powering device over PoE or 24VDC.
- 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.
- Hook directly up to a Hi-O iCLASS reader to support 2 reader in/out reading.



SPECIFICATIONS

Model (and Part #)	EHR40-L (82120CKL0001A)
Mounting Holes - EHR40	US Single-gang and EU / APAC 60mm
Mounting Location - ELM	Fits within US Single-gang or in hollow door frame
Dimensions - EHR40	3.3" W x 4.8" H x 1.2" D (83.9 mm x 122.2 mm x 30.5 mm)
Dimensions - ELM	1.3" W x 2.9" H x 0.7" D (31.7 mm x 72.9 mm x 18.3 mm)
Weight - EHR40	6.3oz (180g)
Weight - ELM	1.4oz (40g)
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
13.56 MHz Card Compatibility	13.56 MHz iCLASS HID Application, ISO14443A CSN
Certifications	UL294 (US) Listed Component, CSA 205 (Canada), FCC Class B (US), CE: EN 300 330, EN 301 489-3, EN 50130-4 (EU), C-Tick: AS/NZS 4268 (Australia, New Zealand), IC: ICES-003 Class B (Canada), CE (EU), SRRC (China), KCC (Korea), NCC (Taiwan), iDA Singapore, RoHS
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	8W (333mA @ 24VDC)
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	13.1W (1092mA @ 12VDC)
Wet Output (@12VDC)	8.4W (700mA @ 12VDC)
Output Power (MAX) for individual field devices, DC Input = 24VDC	
Hi-O Device on CANbus	26.6W (1108mA @ 24VDC)
Wet Output (@12VDC)	8.4W (700mA @ 12VDC)
Wet Output (@24VDC)	16.8W (700mA @ 24VDC)
Relay Rating	
Relay Contact Rating (Dry Output)	2A @ 30VDC

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NOTES: Combined power of all field devices cannot exceed "Output Power (MAX) for total system".
** Power specifications are a compilation of individual component ratings for EHR40 and ELM.