



EDGE EVO®
EHR40 & EHRP40
Hi-O Controller / Reader
Interface to Hi-O door components

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

- **Open Architecture** - Development platform enables use of hardware with any OPIN compliant access control software; pick 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 controller / reader and module and door components using one CAT-5 wire.
- **High Security** - Increased security with encrypted data exchange around the door and between controller and Hi-O devices, including readers, locks and request to exist devices.

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® EHR40 & EHRP40 Controller/Reader is a combined, single-door access control panel and reader with native Highly Intelligent Opening (Hi-O) interface that enables cost effective installation, secure reader and door component connection and high performance access control functionality.

The EHRP40 is installed at the door, 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. The integrated reader offers interface to 13.56 MHz compliant credentials, including iCLASS. Additionally, the EHRP40 model reads 125 kHz compliant credentials, including HID Prox, Indala Prox, EM4102 and AWID.

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

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.
- Integrated reader processes 13.56 MHz iCLASS credentials, ISO14443A CSNs. EHRP40 model additionally reads 125 kHz credentials, including HID Prox, Indala, AWID and EM4102.
- Connects to the host and other devices on a TCP/IP network.
- Provides encrypted door bus using Hi-O technology so that controller and Hi-O enabled readers and door components communicate securely.
- Provide access control processing, host interface and power for a single door, including an integrated 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.)
- Receives and processes real-time commands from the host software application, while reporting all activity to host. Buffers up to 99,999 transactions.



SPECIFICATIONS

Model (and Part #)	EHR40 (82120CKH0001A)	EHRP40 (82125CKH0001A)
Mounting Holes	US Single-gang and EU / APAC 60mm	
Dimensions	3.3" W x 4.8" H x 1.2" D (83.9 mm x 122.2 mm x 30.5 mm)	
Weight	6.3oz (180g)	
Housing Material	UL94 polycarbonate	
Audio / Visual Indicators	Two LEDs on RJ-45 port for network; beeper and reader LED 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	
13.56 MHz Card Compatibility	13.56 MHz iCLASS HID Application, ISO14443A CSN, ISO14443B CSN	
125 kHz Card Compatibility	N/A	HID Prox, Indala, AWID, EM4102
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)

Output Power (MAX) for total system and individual field devices

DC Input @ PoE	8.4W (350mA @ 24VDC)
DC Input @ AUX +12VDC	13.5W (1125mA @ 12VDC)
DC Input @ AUX +24VDC	27W (1125mA @ 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**	Standard multiCLASS RP40 EDGE EVO EWM-M Wiegand Module
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2012-04-23-edge-evo-ehr40-ehrp40-rdrs-ds-en

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