EDGE EVO® EHRP40-K Controller / Reader and Module

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

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 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/door components using one CAT-5 wire.
- **Single CAT5 and Strike Connection Location** – Increased security with encrypted data exchange around the door connect discrete door devices through separate interface module installed in secure area.

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, 0.33mm2

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® EHRP40-K controller/reader and interface module package is a single-door access control panel with reader and separate discrete door interface that enables cost effective installation and high performance access control functionality.

The EHRP40-K controller/reader is installed at the door, and the included Hi-O interface module is mounted separately in a secure location. The controller/reader and module are connected using the secure Hi-O bus and the Hi-O module provides interface to four discrete inputs and two outputs. Additionally, the included Hi-O interface module provides interface to a second optional reader used for in/out reading.

The integrated reader offers interface to 13.56 MHz compliant credentials, including iCLASS, as well as 125 kHz compliant credentials, including HID Prox, Indala Prox, EM4102 and AWID. 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, as well as 125 kHz credentials, including HID Prox, Indala, AWID and EM4102.
- Utilizes module 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 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.

SPECIFICATIONS

Model (and Part #)	EHRP40-K (82125CKI0001A)
Mounting Holes	US Single-gang and EU / APAC 60mm
Dimensions - EHRP40	3.3" W x 4.8" H x 1.2" D (83.9 mm x 122.2 mm x 30.5 mm)
Dimensions - EDWM-M	3.3" W x 5.0" H x 1.5" D (84.0 mm x 127.0 mm x 37.0 mm)
Weight - EHRP40	6.3oz (180g)
Weight - EDWM-M	5.6oz (160g)
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
13.56 MHz Card Compatibility	13.56 MHz iCLASS HID Application, ISO14443A CSN
125 kHz Card Compatibility	HID Prox, Indala, AWID, EM4102 (Simultaneous Support)
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), 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	7.7W
DC Input @ AUX +12VDC	12.8W
DC Input @ AUX +24VDC	26.3W
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	7.7W (320mA @ 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	12.8W (1066mA @ 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	26.3W (1095mA @ 24VDC)
Wiegand / C&D Reader	7.35W (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	2A @ 30VDC

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 EHRP40 and EDWM-M.

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