

# EDGE EVO® Solo ESHR40-L Networked Controller/Reader & Module

## Single-Door Access Control System



### Features:

- Embedded User Interface — no external software requirement.
- Remotely managed using standard web browser.
- Connect to any Wiegand or Hi-O reader. Supports up to 2 readers (purchase of additional add-on boards may be required).
- Web Browser Security — uses SSL 3.0 (Secure Socket Layer) and TLS 3.1 (Transport Layer Security) to establish a secure web browser connection.
- Network Configuration — Works within DHCP or Static IP networks for plug and play installation.
- Multi Language Support — Supports the following languages: English, French, German, Spanish (International), Russian, Portuguese (Brazilian), Italian, Chinese (Simplified), Japanese, Korean, Dutch and Turkish.
- All-in-One UI Page – “Door Dashboard” accesses door commands, status, alarms, and recent events from all screens.
- Back-up and restore of data from user PC.
- User upgradable firmware.
- Manages Card only, PIN only, Card and PIN transactions.
- Manages up to 1000 cardholders/credentials.
- Manages 8 schedules and 3 intervals each day.
- View last 5000 events.
- Standardized report generation, including CSV export.
- First Person In (Snow day) and PIN suppression schedules
- Built-in 802.3af Power over Ethernet (PoE), with 9.6 W available for readers, external field devices and locking hardware.
- Wet or dry door relays, including 12 or 24 VDC wet relay lock support.
- Interface to Hi-O door hardware and Hi-O compliant readers provides streamlined and smart installation.

## IP INTELLIGENCE AT THE DOOR WITH INTEGRATED iCLASS® READER FOR STAND-ALONE APPLICATIONS

- **Cost-Effective** – Uses Power over Ethernet (PoE) to power reader and door strike. Eliminates the need for separate power supplies for many situations.
- **Remote Management** – Managed over the network through a standard web browser. No software installation necessary.
- **Integrated iCLASS Reader** – The included reader/controller reads iCLASS cards and opens the door; access a single-lock output using an IO module designed to mount behind reader in US single-gang box or in hollow door frame.
- **Scalable** – Can be remotely reconfigured through the web browser from stand-alone operation to a system controller in a host environment of multiple controllers.

HID Global's EDGE EVO® Solo ESHR40-L Controller/Reader and Module is a cost-effective, stand-alone, single-door IP-enabled access control solution that distributes intelligence right to the door. EDGE EVO Solo provides the ability to power all devices around a door using Power over Ethernet (PoE), significantly reducing total door installation costs by removing the need to install a separate power supply. It also utilizes less expensive CAT5 wiring compared to traditional structured cable.

Because the user interfaces to the controller utilizes a standard web browser, there is no need to install software on a PC. After the controller is plugged into the local area network (LAN), it obtains its IPv4 address using DHCP or Static addressing. The user simply types the IP address into the web browser, which initiates a secure connection with the stand-alone panel. The All-in-One Door Dashboard provides a simple user interface where the site administrator can add user information, modify access rights, pull history reports, monitor door activity and provide general administration of the controller.

The easy-to-use user interface enables a number of simple access controller management features. The solution also enables electronic access control for sites with one or two doors and a card population of 10's or 100's of cards.

The integrated controller and reader offers interoperability with iCLASS® credentials. The controller/reader is mounted indoors on a US single-gang or EU/APAC 60mm round electrical box next to the door. The controller/reader is connected to an IO interface module installed either behind the reader in a US single-gang electrical box or within a hollow door frame using a four-wire bus. The lock output terminates at the IO interface module, eliminating the need to wire to secure location (ceiling).

Built on HID Global's OPIN® development platform, EDGE EVO Solo can be remotely reconfigured through the web browser from stand-alone operation to a system controller in a host environment of multiple controllers.

### Mounting options:

- Controller/Reader is indoor rated only. Mount indoors on:
- US Single/Double-gang style electrical box.
  - EU/APAC 60mm round style electrical box.
- Lock Module designed to fit within US Single-gang box or hollow door frame.

### Wet output for:

- 1 door strike.

### Inputs for:

- Provides no discrete input interface.
- Provides Hi-O interface to Hi-O compliant input devices.

### Access control readers:

- Up to 2 Total Readers.
- 1 Integrated Reader already included.
  - 1 Additional Hi-O iCLASS Reader.\*

### Easily interfaced:

- RJ-45 connector for Ethernet TCP/IP (10/100 Mbps).
- Quick-disconnect screw terminal connectors.
- Software updates easily provided through browser interface.
- Easily upgrades to a hosted software solution through the network interface.

\* 1 Additional reader should be supported using 1 x Hi-O iCLASS reader.



## SPECIFICATIONS

<b>Model (and Part #)</b>	ESHR40-L (83120CKL000)
<b>Mounting Holes - EHR40</b>	US Single-gang and EU / APAC 60mm
<b>Mounting Location - ELM</b>	Fits within US Single-gang or in hollow door frame
<b>Dimensions - EHR40</b>	3.3" W x 4.8" H x 1.2" D (83.9 mm x 122.2 mm x 30.5 mm)
<b>Dimensions - ELM</b>	1.3" W x 2.9" H x 0.7" D (31.7 mm x 72.9 mm x 18.3 mm)
<b>Weight - EHR40</b>	6.3oz (180g)
<b>Weight - ELM</b>	1.4oz (40g)
<b>Housing Material</b>	UL94 polycarbonate
<b>Audio / Visual Indicators</b>	Two LEDs on RJ-45 port for network; beeper for boot and tamper
<b>Operating Temperature</b>	32° to 122° F (0° to 50° C)
<b>Operating Humidity</b>	5% to 95% relative, non-condensing
<b>Storage Temperature</b>	-67° to 185° F (-55° to 85° C)
<b>Communication Ports</b>	Ethernet (10/100), Hi-O CANbus
<b>13.56 MHz Card Compatibility</b>	13.56 MHz iCLASS HID Application, ISO14443A CSN
<b>Certifications</b>	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
<b>Warranty</b>	Warrantied against defects in materials and workmanship for 18 months (See complete warranty policy for details).

### Input Power

<b>DC Input (MAX) @ PoE</b>	14.4W (300mA @ 48VDC)
<b>DC Input (MAX) @ AUX +12VDC</b>	18W (1500mA @ 12VDC)
<b>DC Input (MAX) @ AUX +24VDC</b>	36W (1500mA @ 24VDC)
<b>Supervised Inputs Power (MAX)</b>	0.025W (5mA sink, 5V nominal) 0 to +5VCD Ref

### Output Power (MAX) for total system (all field devices)

<b>DC Input @ PoE</b>	9.6W
<b>DC Input @ AUX +12VDC</b>	14.4W
<b>DC Input @ AUX +24VDC</b>	28.8W
<b>Hi-O CANbus Output Voltage, DC Input = PoE</b>	24VDC
<b>Hi-O CANbus Output Voltage, DC Input = AUX</b>	AUX +VDC

### Output Power (MAX) for individual field devices, DC Input = PoE

<b>Hi-O Device on CANbus</b>	8W (333mA @ 24VDC)
<b>Wet Output (@12VDC)</b>	6.9W (580mA @ 12VDC)
<b>Wet Output (@24VDC)</b>	8.6W (360mA @ 24VDC)

### Output Power (MAX) for individual field devices, DC Input = 12VDC

<b>Hi-O Device on CANbus</b>	13.1W (1092mA @ 12VDC)
<b>Wet Output (@12VDC)</b>	8.4W (700mA @ 12VDC)

### Output Power (MAX) for individual field devices, DC Input = 24VDC

<b>Hi-O Device on CANbus</b>	26.6W (1108mA @ 24VDC)
<b>Wet Output (@12VDC)</b>	8.4W (700mA @ 12VDC)
<b>Wet Output (@24VDC)</b>	16.8W (700mA @ 24VDC)

### Relay Rating

<b>Relay Contact Rating (Dry Output)</b>	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 EHR40 and ELM.

## ASSA ABLOY

An ASSA ABLOY Group brand

© 2016 HID Global Corporation. All rights reserved. HID, the HID logo, EDGE, EDGE EVO, and iCLASS are trademarks or registered trademarks of HID Global in the U.S. and/or other countries. All other trademarks, service marks, and product or service names are trademarks or registered trademarks of their respective owners.  
 2016-07-25-edge-evo-eshr40L-module-ds-en PLT-02070

North America: +1 512 776 9000  
 Toll Free: 1 800 237 7769  
 Europe, Middle East, Africa: +44 1440 714 850  
 Asia Pacific: +852 3160 9800  
 Latin America: +52 55 5081 1650