NETWORKED ACCESS SOLUTIONS

EDGE EVO® Solo ESHR40-K 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; a secure, side-mounted door interface module places door contact in a secure area.
- **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-K 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 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 in a secure location (ceiling, secure side of door) using a four-wire internal bus. The door IO terminates at the IO interface module in a secure location.

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 -gang style electrical box.
- EU/APAC 60mm round style electrical box.

Door Module is mounted in environmentally protected and secure area.

- US Single -gang style electrical box.
- EU/APAC 60mm round style electrical box.
- Reverse Mount Accessory available for flush mount in cabinet.

Non-latching wet/dry relay outputs for:

- 1 door strike.
- 1 auxiliary device: door held/forced alarm, alarm shunt, host offline (communications down), or general purpose.

Inputs for:

- Door monitor switch*.
- Request-to-Exit switch*.
- AC Fail Monitor.

Access control readers:

Up to 2 Total Readers

- 1 Integrated Reader already included.
- 1 Additional Wiegand or Hi-O iCLASS Readers.**

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.

SPECIFICATIONS

Model (and Part #)	ESHR40-K (83120CKI000)
Mounting Holes	US Single-gang and EU / APAC 60mm
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 - EDM-M	3.3" W x 5.0" H x 1.5" D (84.0 mm x 127.0 mm x 37.0 mm)
Weight - EHR40	6.3oz (180g)
Weight - EDM-M	4.9oz (140g)
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	8W
DC Input @ AUX +12VDC	13.1W
DC Input @ AUX +24VDC	26.6W
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