



EDGE EVO® Solo ESH400

Hi-O Networked Controller

Single-Door Access Control System

Features:

- Embedded User Interface — no external software requirement
- Remotely managed using standard web browser.
- Interface to Hi-O door hardware and Hi-O compliant readers provides streamlined and smart installation.
- 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.

IP INTELLIGENCE AT THE DOOR INCORPORATING ANY HI-O COMPLIANT READER FOR STAND-ALONE APPLICATIONS

- **Cost-Effective** - Uses Power over Ethernet (PoE) to power reader and door strike, eliminating the need for separate power supplies for many situations.
- **Remote Management** - Managed over the network through a standard web browser. No software installation necessary.
- **High Security** - Increased security with encrypted data exchange between controller and all Hi-O enabled door components.
- **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 ESH400 Hi-O Controller 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 flexible ESH400 Hi-O Controller offers a secure connection between controller and all Hi-O compliant devices. The controller connects to Hi-O enabled devices, including Hi-O iCLASS readers, locks and push buttons, using a four-wire bus. All intelligent Hi-O compliant devices communicate bi-directionally, providing supervision and up-to-date system status information. Devices are installed in an easy-to-use plug-and-play mode, then locked down and encrypted as a last step in commissioning the door.

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:

Always mount 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.

Supported Hi-O Devices:

- Lock (can provide power over 4-wire CANbus).
- Request-to-Exit switch.
- Door operator.

Security:

- Integrated optical tamper.

Access control readers:

- Up to 2 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 #)	ESH400 (83000CKH)
Mounting Holes	US Single-gang and EU / APAC 60mm
Dimensions	3.2" W x 4.7" H x 0.9" D (81.5 mm x 119.6 mm x 22.2 mm)"
Weight	6.3oz (180g)
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
Certifications	UL294 (US) Listed Component, CSA 205 (Canada), FCC Class A (US), ICES-003 Class A (Canada), CE Mark EN 301 489-3 EN 55022 EN 50130-4 (EU), C-Tick AS/NZS CISPR 22 (Australia, New Zealand) & Korea (KCC)
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 and individual field devices	
DC Input @ PoE	9.6W (400mA @ 24VDC)
DC Input @ AUX +12VDC	14.4W (1200mA @ 12VDC)
DC Input @ AUX +24VDC	28.8W (1200mA @ 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**

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NOTES:

Combined power of all field devices cannot exceed "Output Power (MAX) for total system".

** Required for Hi-O CANbus > +16VDC.