



HI-O INTERFACE FOR DOOR AND EXTENDED IO INTERFACE BETWEEN EDGE EVO® CONTROLLERS AND DISCRETE IO/WIEGAND READERS

- **Expanded IO** - Increase monitor points and output control at and around the door utilizing modular EDGE EVO product line to do more at a reduced system cost.
- **Power Over Ethernet (PoE)** - Reduces wiring and power supply costs by powering modules using PoE supplied to the EDGE EVO Controller.
- **Versatile Installation** - Connect one or more interface modules to the Hi-O communication bus on one EDGE EVO Controller; mount individual modules near controller or remotely closer to IO.

Cable Specifications

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 Networked Access Solutions family, the EDGE EVO® Hi-O interface modules provide door and extended IO interface between IO and an EDGE EVO Controller. The interface module provides a securely located IO interface to door components such as locks and other components.

It also enables the expansion of IO monitoring and control, all connected

back to one single-door controller with the potential to power everything over PoE. The modules include EDWM-M, EDM-M, EWM-M, EIM-M, ELM and EVM. Modules come in one of six types; up to two maximum of each can be connected to any one EDGE EVO controller or reader/controller.

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

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:

- Part of an open architecture family of single-door controllers and IO expansion devices that provides a complete and fully functional hardware/firmware infrastructure for IP access control software host systems.
- Enables the replacement of head end software without visiting the access control panel, reducing change out costs.
- Dry contacts interface to inputs and provide two or four state status back to access control system.

- Output relay provides power up to 8.6W and are controlled as part of typical door transaction or as a separate auxiliary output.

OPTIONS:

- EDWM-M Door/Wiegand Module, provides four inputs, two outputs and Wiegand/Clock-and-Data reader interface.
- EDM-M Door Module provides interface of up to four inputs and two outputs (for door specific use or general purpose)
- EIM-M Input Module provides interface of

up to four inputs.

- EWM-M Wiegand Module provides interface with one Wiegand or Clock-and-Data reader.
- ELM Lock Module provides interface with one strike.
- EVM Voltage Module provides 24V to 12V voltage conversion of PoE powered Hi-O bus to iCLASS Hi-O reader.

SPECIFICATIONS

Model	EDWM-M	EDM-M	EWM-M	EIM-M	ELM	EVM
Part Number	82363AKM	82342AKM	82360AKM	82340AKM	82301AN	82365AT
Purpose	Interface EDGE EVO Controller (/ Reader) Hi-O CANbus to 4 inputs, 2 outputs and 1 Wiegand / C&D Reader	Interface EDGE EVO Controller (/ Reader) Hi-O CANbus to 4 inputs, 2 outputs	Interface EDGE EVO Controller (/ Reader) to 1 Wiegand / C&D Reader	Interface EDGE EVO Controller (/ Reader) Hi-O CANbus to 4 inputs	Interface EDGE EVO Controller (/ Reader) Hi-O CANbus to 1 lock	Interface EDGE EVO Controller (/ Reader) 24VDC Hi-O CANbus to a 5-16VDC Hi-O iCLASS Reader
Default Use	Interface to door REX, DPS and Lock and Wiegand reader	Interface to door REX, DPS and Lock and Wiegand reader	Interface to Wiegand / C&D Reader	Monitor general purpose inputs around the door	Use for door control; reader / controller is hooked up to 1 lock output only	Used strictly with Hi-O iCLASS Readers (sold separately)
Mounting	US Single-gang and EU / APAC 60mm mounting holes for electrical box mount				Fits within US Single Gang Box or Hollow Door Frame	Fits within US Single Gang or EU / APAC 60mm electrical box
Dimensions	"3.3" W x 5.0" H x 1.5" D (84.0 mm x 127.0 mm x 37.0 mm)"	"3.3" W x 5.0" H x 1.5" D (84.0 mm x 127.0 mm x 37.0 mm)"	"3.3" W x 5.0" H x 1.5" D (84.0 mm x 127.0 mm x 37.0 mm)"	"3.3" W x 5.0" H x 1.5" D (84.0 mm x 127.0 mm x 37.0 mm)"	1.3" W x 2.9" H x 0.7" D (31.7 mm x 72.9 mm x 18.3 mm)	1.3" W x 1.9" H x 0.7" D (31.9 mm x 47.7 mm x 18.3 mm)
Weight	5.6oz (160g)	4.9oz (140g)	4.9oz (140g)	4.9oz (140g)	1.4oz (40g)	1.2oz (33g)
Operating Temperature	32° to 122° F (0° to 50° C)					
Operating Humidity	5% to 95% relative, non-condensing					
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)					
Warranty	Warranted against defects in materials and workmanship for 18 months (See complete warranty policy for details).					
Input Power						
DC Input (NSC) @ 12VDC	0.9W (70mA @ 12VDC)	0.5W (40mA @ 12VDC)	0.4W (30mA @ 12VDC)	0.4W (30mA @ 12VDC)	0.5W (40mA @ 12VDC)	0.005W (0.4mA @ 12VDC)
DC Input (NSC) @ 24VDC	1.7W (70mA @ 24VDC)	1.0W (40mA @ 24VDC)	0.7W (30mA @ 24VDC)	0.7W (30mA @ 24VDC)	1.0W (40mA @ 24VDC)	0.01W (0.4mA @ 24VDC)
Supervised Inputs Power (MAX)	0.025W (5mA sink, 5V nominal)	0.025W (5mA sink, 5V nominal)	N/A	0.025W (5mA sink, 5V nominal)	N/A	N/A
Output Power (MAX) for individual field devices, DC Input = PoE**						
Reader	7.35W (600mA @ 12.25VDC)	N/A	7.35W (600mA @ 12.25VDC)	N/A	N/A	12W (1000mA @ 12VDC)
Wet Output (@12VDC)	6.9W (580mA @ 12VDC)	6.9W (580mA @ 12VDC)	N/A	N/A	6.9W (580mA @ 12VDC)	N/A
Wet Output (@24VDC)	8.6W (360mA @ 24VDC)	8.6W (360mA @ 24VDC)	N/A	N/A	8.6W (360mA @ 24VDC)	N/A
Relay Contact Rating (Dry Output)	2A @ 30VDC	2A @ 30VDC	N/A	N/A	2A @ 30VDC	N/A

NOTES:

Combined power of all field devices cannot exceed "Output Power (MAX) for total system". Power specifications a compilation of individual component ratings for EHRP40 and EDWM-M. For Plenum rating when installing modules in secure area, install interface module within NEMA Type 1 Enclosure.

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