



Controller

Integrated software platforms



INEST

PoE Edge Capable Intelligent Controller with In-Built Reader ICEHR40K



IDCUBE's ICEHR40K is a PoE base single-door Networked Access Controller with an in-built reader. The controller comes with a separate discrete door interface that enables cost-effective installation and high-performance access control functionality. The ICEHR40K comprises of HID's Networked Access controller EDGE EVO EHR40K along with optional accessories, i.e., UL certified power supply, charging circuit, battery, and tamper switch.

The controller seamlessly integrates with IDCUBE's "Access360" & "INEST" access control applications.

The 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 an interface to four discrete inputs and two outputs for door control.

The ICEHR40-K will also accept a second Wiegand / Clock-and-Data reader using an additional Hi-O Interface Module (sold separately). The integrated reader also offers an interface to 13.56 MHz compliant credentials, including iCLASS.

KEY FEATURES

- Supports up to 125,000 cardholders & 99,999 transaction buffer
- Supports Power Over Ethernet (PoE), enabling cost-effective installation utilizing existing network infrastructure
- Connects to the host and other devices on a TCP/IP network
- Provide access control processing, host functionality and power for a single door, including one or two readers, lock, door status, request-to-exit device and auxiliary sounder
- Provides encrypted door bus using Hi-O technology so that controller and Hi-O enabled readers and door components communicate securely
- Utilizes on-board jumpers to select 12 or 24 VDC power to locks & AUX output when powering device over PoE or 24 VDC
- Receives and processes real-time commands from the host software application, while reporting all activity to host
- Can connect directly to a Hi-O iCLASS reader to support 2 reader in/out reading
- Integrated reader processes 13.56 MHz iCLASS credentials, ISO14443A CSNs
- UL 294 and FCC Class A recognized components



TECHNICAL SPECIFICATIONS

Characteristic	Parameter
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	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 12 months
Input Power	<ul style="list-style-type: none"> • DC Input (MAX) @ PoE: 14.4W (300mA @ 48VDC) • DC Input @ AUX +12VDC: 18W (1500mA @ 12VDC) • DC Input @ 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)	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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 = 12VD	<ul style="list-style-type: none"> • 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 = 24VD	<ul style="list-style-type: none"> • 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: 2A @ 30VDC
Part Code	ICEHR40K-EXXXXXX ¹ (HID EDGE EHR40K)

¹EXXXXXX refers to enclosure type along with accessories such as power supply, charging circuit, battery, and tamper switch; Please refer enclosure datasheet for details

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