

PoE Edge Capable Intelligent Controller with In-Built Reader ICEHRP40K



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, as well as 125 kHz credentials, including HID Prox, Indala, AWID and EM4102.

UL 294 and FCC Class A recognized components

IDCUBE's ICEHRP40K 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 ICEHRP40K comprises of HID's Networked Access controller EDGE EVO EHRP40K 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 ICEHRP40K 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. Additionally, the included Hi-O interface module provides an interface to a second optional reader used for in/out reading.

The integrated reader offers an interface to 13.56 MHz compliant credentials, including iCLASS, as well as 125 kHz compliant credentials, including HID Prox, Indala Prox, EM4102 and AWID.



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	5.6oz (160g)
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
Storage Temperature	-67° to 185° F (-55° to 85° C)
Communication Ports	Ethernet (10/100), Hi-O CANbus, Wiegand or Clock-and-Data
13.56 MHz Card Compatibility	13.56 MHz iCLASS HID Application, ISO14443A CSN
125 kHz Card Compatibility	HID Prox, Indala, AWID, EM4102 (Simultaneous Support)
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), 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: 0.025W (5mA sink, 5V nominal) 0 to +5VDC Ref
Output Power (MAX) for total system (all field devices)	<ul style="list-style-type: none"> • DC Input @ PoE: 7.7W • DC Input @ AUX +12VDC: 12.8W • DC Input @ AUX +24VDC: 26.3W • 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: 7.7W (320mA @ 24VDC) • Wiegand / C&D Reader: 7.1W (580mA @ 12.25VDC) • Wet Output (@12VDC): 6.9W (580mA @ 12VDC) • Wet Output (@24VDC): 8.6W (360mA @ 24VDC)
Output Power (MAX) for individual field devices, DC Input = 12VDC	<ul style="list-style-type: none"> • Hi-O Device on CANbus: 12.8W (1066mA @ 12VDC) • Wiegand / C&D Reader: 3.9W (320mA @ 12.25VDC) • Wet Output (@12VDC): 8.4W (700mA @ 12VDC)
Output Power (MAX) for individual field devices, DC Input = 24VDC	<ul style="list-style-type: none"> • Hi-O Device on CANbus: 26.3W (1095mA @ 24VDC) • Wiegand / C&D Reader: 7.35W (600mA @ 12.25VDC) • 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	ICEHRP40K-EXXXXXX1 (HID EDGE EHRP40K)

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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