



PoE Edge Capable Intelligent Controller

ICEH400K



IDCUBE's ICEH400K is a PoE base single-door Networked Access Controller that enables cost-effective installation and high-performance access control functionality. The ICEH400K comprises of HID's Networked Access controller EDGE EVO EH400K 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 ICEH400K makes local door decisions and can interface with one Wiegand/ Clock-and-Data reader. An additional Wiegand/Clock-and-Data reader can be attached using a separate Hi-O Interface Module (sold separately). The ICEH400K is mountable on single- or double-gang electrical boxes and is roughly the size of a triple-gang electrical box. The ICEH400K has an optical tamper, and interface to 4 discrete inputs and 2 outputs (lock and auxiliary).

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

Provides fully functional offline operation when not actively communicating with the host access control software.

Receives and processes real-time commands from the host software application, while reporting all activity to host

Interfaces with one or two Hi-O compliant readers and one Wiegand or Clock-and-Data reader (expandable to two).

Inputs: Up to 16 inputs with expansion modules
Outputs: Up to 6 outputs with expansion modules

UL 294 and FCC Class A recognized components



TECHNICAL SPECIFICATIONS

Characteristic	Parameter
Mounting Holes	US Double-gang, US Single-gang and EU / APAC 60mm
Dimensions	6.1" W x 4.8" H x 1.5" D (154.9 mm x 122.5 mm x 37.1 mm)
Weight	11.3oz (320g)
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
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 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): 24VDC
Output Power (MAX) for total system (all field devices)	<ul style="list-style-type: none"> • DC Input @ PoE: 9.6W • DC Input @ AUX +12VDC: 14.4W • DC Input @ AUX +24VDC: 28.8W • 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: 9.6W (400mA @ 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: 14.4W (1200mA @ 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: 28.8W (1200mA @ 24VDC) • Wiegand / C&D Reader: 7.3W (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	ICEH400K-EXXXXXX ¹ (HID EDGE EH400K)

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

For more information:
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