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’s Networked Access Solutions family, the EDGE EVO® EH400-K is a single-door access control panel that enables cost-effective installation and high performance access control functionality.

The EH400-K makes local door decisions and can interface with one Wiegand/Clock-and-Data reader and one (or two) Hi-O iCLASS® readers. An additional Wiegand/Clock-and-Data reader can be attached using a separate Hi-O Interface Module. The EH400-K is mountable on single- or double-gang electrical boxes and is roughly the size of a triple-gang electrical box. The EH400-K has an optical tamper, and interface to 4 discrete inputs and 2 outputs (lock and auxiliary).

As customer requirements change over time and new software provider solutions enter the market, EDGE EVO solutions enable the replacement of head end software without visiting the access control panel, reducing change out costs.

EDGE EVO solutions are created for both on site system administration as well as service oriented offsite solutions, depending on the OEM software provider’s total solution.

**Cable Specifications**

**Ethernet:**
- 300ft (100m), CAT-5
- ALPHA 9504C, ALPHA 9405F

**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, 0.33mm
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model (and Part #)</th>
<th>EH400-K (B20000CKE1A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting Holes</td>
<td>US Double-gang, US Single-gang and EU / APAC 60mm</td>
</tr>
<tr>
<td>Dimensions</td>
<td>6.1&quot; W x 4.8&quot; H x 1.5&quot; D (154.9 mm x 122.5 mm x 37.1 mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>11.3oz (320g)</td>
</tr>
<tr>
<td>Housing Material</td>
<td>UL94 polycarbonate</td>
</tr>
<tr>
<td>Audio / Visual Indicators</td>
<td>Two LEDs on RJ-45 port for network; beeper for boot and tamper</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>32° to 122° F (0° to 50° C)</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>5% to 95% relative, non-condensing</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-67° to 185° F (-55° to 85° C)</td>
</tr>
<tr>
<td>Communication Ports</td>
<td>Ethernet (10/100), Hi-O CANbus, Wiegand or Clock-and-Data</td>
</tr>
<tr>
<td>Certifications*</td>
<td>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) &amp; Korea (KCC)</td>
</tr>
<tr>
<td>Warranty</td>
<td>Warranted against defects in materials and workmanship for 18 months (see complete warranty policy for details).</td>
</tr>
</tbody>
</table>

### 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)

### Output Power (MAX) for total system (all field devices)

- **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

- **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

- **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

- **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

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**Features:**
- Provides a complete and fully functional hardware/firmware infrastructure for IP access control software host systems.
- Supports Power Over Ethernet (PoE), enabling cost-effective installation utilizing existing network infrastructure.
- Stores a complete access control and configuration database for one door with one or two readers and 125,000 cardholders.
- 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.
- Utilizes on-board jumpers to select 12 or 24 VDC power to locks and AUX output when powering device over PoE or 24 VDC.
- Provides encrypted door bus using Hi-O technology so that controller and Hi-O enabled readers and door components communicate securely.
- Connects to the host and other devices on a TCP/IP network.
- Receives and processes real-time commands from the host software application while reporting all activity to host. Buffers up to 99,999 transactions.
- Provides fully functional offline operation when not actively communicating with the host access control software.
- Interfaces with one or two Hi-O compliant readers and one Wiegand or Clock-and-Data reader (expandable to two).
- Spacer and reverse mount accessories (sold separately).

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North America: +1 512 776 9000
Toll Free: 1 800 237 7769
Europe, Middle East, Africa: +44 1440 714 850
Asia Pacific: +852 3160 9800
Latin America: +52 55 5081 1650

hidglobal.com

*For Plenum rating, install within NEMA Type 1 Enclosure*