

EB2-2D

Next Generation Encryption Bridge with Self-Healing Architecture



Transform traditional card readers into powerful Building Internet of Things devices, eliminating the need for costly control panels forever.

Hirsch's new Encryption Bridge Two, revolutionizes access control by converting any Wiegand or OSDP card readers, Door Monitor and Request To Exit monitoring into IoT devices. This PoE+ innovative platform with AES 256 and TLS 1.3 over MQTT encrypts card transactions and sends them directly to local, remote or cloud Primis servers, bypassing traditional control panels. Compatible with a wide range of card readers, Hirsch Primis ensures a seamless transition and integration into existing IT infrastructures.

Designed for resiliency and fault tolerance, the EB2-2D utilizes robust IT principles to enhance the security and reliability of your access control system. With the capability to connect to multiple synchronized servers, it offers unparalleled protection against network failures and implements comprehensive risk mitigation strategies with its self-healing architecture.

The EB2-2D is truly revolutionary in design and function to take your access control system to the next level and never be burdened by costly control panels again.

Features

Cloud-Ready

- Manage from any server in any location
- Integrates seamlessly with existing IT infrastructure

Smart Access

- Manage access for up to two readers (Wiegand or OSDP)
- Simple door control and monitoring

Scalable

- Flexible architecture allows for a variety of topologies
- Reduced system complexity

Secure

- Encrypted TLS1.3 over MQTT data paths to ensure secure data transfer
- No public IP required for the device
- Self-Healing Architecture

SPECIFICATIONS

Dimensions	91.76 x 111.33 x 34.5 mm (3.61 x 4.38 x 1.35 in)
Power Requirements	12 - 24VDC (32W supply), PoE+ (25W) or PoE (12.95W)
Power for Attached Devices	24W (12W Max for readers and 12W Max for relays in wet mode when powered by DC power)
Mounting	DIN Rail Ready or Dual Keyhole Slot
Weight	180g (0.4 lbs.)
Lock Power Available	12/24 VDC - 12W (1A @ 12V, 0.5A @ 24V)
Communication	Ethernet (10/100) BASE-T
Network Protocols Supported	IPv4, DHCP, DNS, NTP
Network Encryption	TLS 1.3 over MQTT
Operating Temperature	0° to 49° C (32° to 120° F) 93% relative humidity
Number of Readers Supported	2
Reader Type	Wiegand or OSDP v2.1.5 or later
Reader Power Available	Up to 500mA Max @12VDC per reader
Inputs	4 (2 Supervised or Non-Supervised per door)
Relay Outputs	2 Wet 12VDC or 24VDC or Dry
Relay Switch Capacity	2A @ 30VDC
Compliances	UL294, UL2043, FCC Part 15 Class A, ICES-003, CE, UKCA, RoHS, EU Reach, C-Tick, RCM
Part Number	FR-50-40-EB2-2D