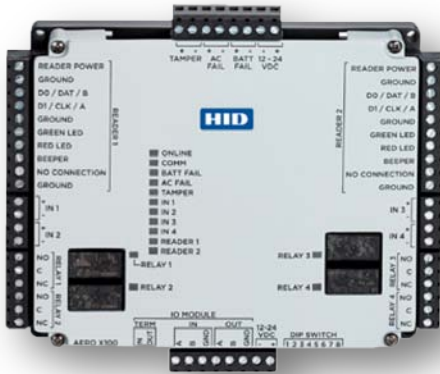


## Access Door/ Reader Interface Module ICAERO-X100



IDCUBE's ICAERO-X100 is the next generation access reader interface panel featuring door/ reader interface module supporting up to 2 doors, and an open architecture access reader & I/O interface platform that runs on embedded Linux, seamlessly integrates with "Access360" & "INEST" applications. The ICAERO-X100 access control interface panel comprises of HID's Networked reader interface Aero X100 along with optional accessories, i.e., UL certified power supply, charging circuit, battery, and tamper switch.

ICAERO-X100 provides onboard IO support for up to two access points and two (Wiegand) or four (OSDP) readers. Four robust relays provide door lock and auxiliary output control while seven supervised inputs are used to monitor door status, REX, power supply, battery, tamper and general purpose inputs status, all supporting analog-to-digital conversion.

The enhanced platform offers an improved processor and increased memory, plus feature an embedded crypto memory chip that provides a secured layer of encryption to onboard sensitive data. Attach the ICAERO-X100 to an ICAERO-X1100 intelligent controller to perform full access control processing or attach multiple ICAERO-X100s to control more doors.



### KEY FEATURES

Connects to and reports activities to IDCUBE's Access360 & INEST access control solution over an IP network

Provides OSDP reader support facilitating increased security and functionality

Supports up to 4-readers on OSDP or 2-readers on Wiegand, 7 inputs and 4 outputs

IO module encryption for increased security between intelligent controller and IO modules with AES encryption

Supervised inputs supporting 2-state, 3-state or 4-state wiring options

Connects to ICAERO-X1100 via RS-485

7 different threat levels can be defined to instantly adjust user access during Lockdowns & Lockouts

Non-latching Relay Outputs: 2 door strikes (configurable) 2 auxiliary devices: door held/forced alarm, alarm shunt, host off-line (comms down), or general purpose

Choice of 4 access modes for offline/degradation condition – disabled, unlocked, unlocked by REX only, FC only

UL 294 recognized components.

## TECHNICAL SPECIFICATIONS

Characteristic	ICAERO-X100
Audio / Visual indicators	Power LED and RS-485 Communications LED
Input Voltage	12 to 24 Vdc +/- 10%
Maximum Input Current	1.5 A (340 mA excluding readers and USB)
Intelligent Controller Communication	2-wire RS-485, 2400 to 115K BPS, asynchronous
Inputs	7 supervised/unsupervised, standard EOL: 1k/1kΩ 1%, 1/4 watt
Outputs	4 Relays, Form-C with dry contacts
Normally Open Contact Rating	5 A @ 30 Vdc resistive
Normally Closed Contact Rating	3 A @ 30 Vdc resistive
Reader Power	12 Vdc +/- 10% regulated, 500 mA maximum each reader
Data Input Power	TTL compatible or 2-wire RS-485
OSDP Mode	9,600 to 230,400 bps, asynchronous, half-duplex, max cable 2000 ft (609.6 m)
LED Output (Wiegand)	Open Collector, 12 Vdc open circuit maximum, 40 mA sink maximum
Beeper Output (Wiegand)	Open Collector, 12 Vdc open circuit maximum, 40 mA sink maximum
RS-485	4000 feet (1220 m) to host using Belden 3105A, 22 AWG twisted pair, shielded cable
Housing Material	UL94 polycarbonate
Mounting	Mount to any wall surface, using four screws. For UL compliance, one or more gateways can be mounted inside a locking customer supplied NEMA-4 rated enclosure
Operating Temperature	32° to 158°F (0 to 70°C)
Humidity	5% to 85% RHNC
Dimension	6.46" x 5.51" x 1.02" (164 mm x 140 mm x 26 mm)
Weight	342g
Certifications	Certification: FCC Part 15 Subpart B, CE, BSMI, IC, AS/NZS, TCVN, KCC Safety: UL-294, IEC 62368-1, CB Scheme Hazardous Substances: RoHS (2011/65/EU & 2015/863), EU REACH (1907/2006), California Proposition 65
Part Code	ICAX100-EXXXXXX <sup>1</sup> * (HID AERO X100 )

\*EXXXXXX<sup>1</sup> 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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