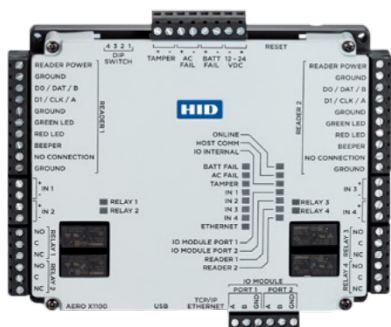


## Access Door/ Reader Controller Panel ICAERO-X1100



Reference image only\*

IDCUBE's ICAERO-X1100 Access control panel is the next generation advanced open architecture access control platform that runs on embedded Linux, seamlessly integrates with "Access360" & "INEST" applications. The panel comprises of a new authentic intelligent controller Aero X1100 along with optional accessories, i.e., UL certified power supply, charging circuit, battery and tamper switch.

ICAERO-X1100 controller is a multidoor access control panel that provides onboard IO support for 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. At maximum capacity, the controller can control up to 64 readers, 64 access points, 615 inputs or 388 outputs.

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

### KEY FEATURES

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

Supports up to 4 readers, 7 inputs and 4 outputs

OSDP/OSDP SC protocol secures channel communication for reader connectivity; supports SNMPv3/v2c

Host communications protected by TLS 1.2/1.1 or AES256/128; generate and load custom peer certificates for TLS

AES(128/256) encrypted communication between the intelligent controller and the IO modules

HTTPS protected installer web-pages protects against malicious attacks to keep keys and passwords safe

7 different threat levels can be defined to instantly adjust user access during lockdowns & lockouts

Supports multiple card formats, paired and alternate readers, elevator, turnstile, biometric devices, fire alarm and intrusion detection

UL 294 recognized components.

## TECHNICAL SPECIFICATIONS

Characteristics	ICAERO- X1100
Memory Capacity	Up to 250,000* credentials & 50,000 transaction buffer
Access Levels	32 per credential (per reader schedule); plus custom credential override
On-Board Reader Support	Up to 4 (OSDP multi-drop) or 2 (Wiegand) with on-board IO via 2 access points
Maximum Access Points	64 (using X100 or V100 IO modules)
Maximum Readers	64 (OSDP or Wiegand, regardless of IO module configuration)
Maximum Inputs	615 (using X200 or V200 IO modules)
Maximum Outputs	388 (using X300 or V300 IO modules)
Number of IO Module Buses	2 (each dedicated to either Aero or VertX IO modules)
Maximum Aero & VertX IO Modules	32; each IO module bus can support up to 32 Aero modules and up to 16 VertX modules
Input Voltage	12 to 24 Vdc +/- 10%
Maximum Input Current	1.9 A (550mA excluding readers and USB)
Micro USB Port	5 Vdc, 500 mA maximum (USB 2.0)
Memory and Clock Battery Backup	3 Volt Lithium, type CR2032
microSD Card	Format: microSD or microSDHC; 2 GB to 8 GB (RFU)
Ethernet Communication	10BaseT/100Base-TX; IPv4/v6
IO Module 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
Relay Ratings	5 A @ 30 Vdc resistive Open Contact; 3 A @ 30 Vdc resistive Close Contact
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
Temperature	32 to 158° F (0 to 70° C), operating & -67 to 185°F (-55 to +85°C), storage
Humidity	5 to 85% RHNC
Dimension	6.46" x 5.51" x 1.02" (164 mm x 140 mm x 26 mm)
Weight	352 g
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; Security: NIST Certified Encryption
Product Code	ICX1100-EXXXXXX <sup>1</sup> ** (HID AERO X100 )

\* Credential capacity depends on memory configuration. 250,000 credential capacity possible using date/time activation/deactivation, 64-bit card numbers and 1 operating mode.

\*\* EXXXXXX 1 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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