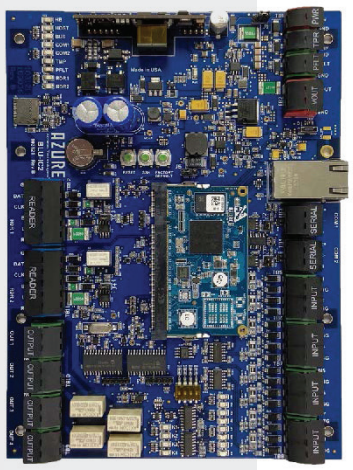

Network | Intelligent Controller

NOP-IC2

Access Control Intelligent Controller

NOP-IC2
High-Speed, 2-Reader Network Controller
(2 Reader Ports, 8 Supervised Inputs, 4 Outputs)

The NOP-IC2 is a high-performance, two-door network controller designed for secure, large-scale access control installations. It offers full encryption, supporting both Wiegand and OSDP Secure Channel readers, and features Guaranteed real-time operation. The NOP-IC2 Controller ensures site operability even during Ethernet network failures, supporting user access, door operations, and data storage. Communications and firmware are encrypted end-to-end.

Access Control Characteristics

- 1,000,000 Cardholder Capacity
- Controls up to 1024 Inputs/Outputs
- Expands up to 64 Readers/Openings
- Occupancy Management
- Elevator Control (up to 128 Floors)
- Host-Controlled Access Request
- Keypad with Flexible Lengths

Device Key Features

- Embedded Linux OS
- Co-processors for real-time operation
- Fully configurable hardware interfaces
- Fast Download Speeds; 10k cards per second
- Support for government credentials, including PIV
- Onboard power monitoring and backup for guaranteed memory retention during power failure
- Modern Onboard web server for board configuration and diagnostics

Security Features

- Fully encrypted database and filesystem
- All communications encrypted, Host-to-Reader
- TLS v1.3 with custom certificates
- OSDP Secure Channel
- Internal network firewall with Authorized Access list

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com
Hanwha Vision is formerly known as Hanwha Techwin.

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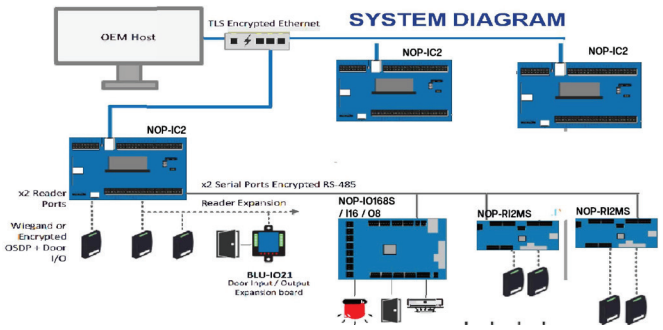

Specifications

GENERAL	
Operating Temperature	-40°C~+80°C (-40°F~+176°F)
Weight	0.6lbs (272 Grams)
Dimensions	8" x 6" x .88" (203.2mm x 152.4mm x 22.35mm)
Regulatory Compliance	CE Compliant, UL 294, 294B, 2610, 1076, ULC / ORD C1076 & 60839-11-1, FCC Part 15 Class A RoHS
NETWORK	
Network / Host	1 - Dedicated RJ-45 (10/100 Base-T) Ethernet Port • (2nd Ethernet Port Possible with USB-to-Ethernet Adapter) • IPv4 / IPv6 (Static or DHCP) • Host-Initiated or Controller-initiated Connections • SNMP
ONBOARD I/O	
Reader Ports	2 - Reader Ports supporting Wiegand Readers or 16 OSDP Readers Open-Collector Buzzer Output (1) LED Control Signal • 2-wire LED support when re-purposing buzzer
Unsupervised Inputs	2 - Unsupervised Inputs for Cabinet Tamper & Power Failure
Supervised Inputs	8 - Supervised or Unsupervised Inputs • Supervised high-precision inputs with hardware and software filtering to elminate false alarms
Outputs	4 - Form-C Relay Outputs 2A @ 30VDC MAX rating
Serial Ports	2 - Downstream, RS485 Serial Comm Ports • Multi-drop up to 16 IO and/or Reader Interface Boards • 9,600 to 115,200 baud rate • 2-Wire Interface
Aux Ports	1- SD Card 1- Micro USB 2.0 with OTG Support
POWER	
Input Power (VIN)	12-24VDC; 350mA typical MAX current
Aux Power Output (Fuse Protected)	VIN Passthrough : 1A Max Current
Reader Port Power (Fuse Protected)	VIN Passthrough with 500mA Max per port, 12vDC Regulated with 500mA MAX per port or 600mA MAX Combined
USB Power	USB 5VDC; 500mA MAX current
SECURITY AND CAPACITY	
Security	• Encrypted at rest • OSDP Secure Channel with Custom Keys • AES 128/256 - SHA256 Encryption • Open SSL • TLS 1.3 with HSM-signed Root-of-Trust
Capacity	• Up to 1 million cards • Up to 128 readers with standard configuration • Configurable 100K+ Event buffer • 300 Access Levels per controller • 50 Access Levels per cardholder • 127 Wiegand card format

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