Honeywell

NetAXS[™]

Web-based Access Control System

Honeywell's web-based access control offering now provides solutions for installations of any size. NetAXS™ enables users to manage their system anywhere there's an Internet connectionwith no dedicated PC costs. The user-friendly design makes it simple to install and easy to operate and maintain. NetAXS gives you all the benefits of traditional access control such as helping you secure your doors, manage employee access, and manage sites remotely. It also lets you pull reports easily to meet compliance requirements. With a browser-based interface, your learning curve and training time are significantly decreased. And you don't have to have a dedicated PC-simply log on and you're ready to go, securely-from the office or anywhere. NetAXS has been developed with an installer-friendly design that easily adapts to existing IT infrastructure and methods. This means reduced installation and support cost. Its superior

scalability means you can purchase the exact amount of access control you need now-and add doors later as business needs change. Plus, NetAXS integrates with Honeywell's fully-featured WIN-PAK software to enable more robust and sophisticated NetAXS integrations. So as your system grows, NetAXS grows with you.

System Highlights:

- SIMPLE: Manage your access control anywhere with an Internet connection
- SCALABLE: Purchase the exact amount of access control you need now and easily add doors later
- FLEXIBLE: Compatible with WIN-PAK® XE, WIN-PAK SE, WIN-PAK PE and WIN-PAK PRO CS (managed access) software

NETAXS OFFERINGS

	ENCLOSU	RES and ADD-ON BOARDS
1	NX1P*	NetAXS-123: One door, compact (plastic) enclosure
Door	NX1MPS	NetAXS-123: One door, standard (metal) enclosure with power supply and battery
	NX1P*	NetAXS-123: One door, compact (plastic) enclosure
2	NXD1*	NetAXS-123: One door add-on board
Doors	NX1MPS	NetAXS-123: One door, standard (metal) enclosure with power supply and battery —and —
	NXD1	NetAXS-123: One door add-on board
3	NX1MPS	NetAXS-123: One door, standard (metal) enclosure with power supply and battery — and —
Doors	NXD2	NetAXS-123: Two door add-on board
4	NX4S1	NetAXS-4: 4 Door control panel (standard enclosure)
Doors	NX4L1	NetAXS-4: Pre-wired 4 door control panel (deluxe enclosure)

*450 mA @ 12 VDC is the maximum current available to power strike, reader(s) and input devices when using a 802.3af Power Over Ethernet (PoE) connection. If additional current is required, an external 12 VDC power supply is needed.



Web-based Access Control System

SYSTEM BENEFITS



User Friendly

Easy to use landing page provides a user-friendly experience so you can provide end user training in less than 30 minutes. Whether you're showing customers how to set up the basic parameters such as time zones and access levels, or teaching them how to add or delete cards, everything you need is all located on one page. Simply log into your IP address and navigate the system like you would any other Internet site.

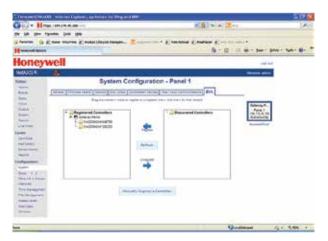
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Dynamic Screen Updates

With NetAXS, dynamic screens refresh data automatically without having to refresh the page. This allows status updates from NetAXS to be pushed out to the web screens automatically, without user interaction.

Alarms, events, inputs, outputs, and status screens all automatically update as information is received.

Data transfer between the controller and web browsers has been optimized to reduce bandwidth requirements, improving screen response times.



RS-485 or Ethernet Virtual Loop (EVL) with NetAXS-123

Ethernet Virtual Loop (EVL), a NetAXS-123 v5.0 feature, for webhosted systems (EVL is not supported by WIN-PAK), allows up to 16 IP network connected NetAXS-123 controllers to be managed as a group. The group is called a "Virtual Loop" as its functionality is similar to an RS-485 loop also featured with version 5.0 and previous releases of NetAXS firmware. NetAXS-123 downstream panels operating EVL and on the same subnet as the gateway panel are automatically discovered by the gateway panel, greatly reducing installation time and making system expansion easy. Systems using NetAXS-4 or a mix of NetAXS-123 and NetAXS-4 must use RS-485 to loop panels.

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Door Access Modes and Options

NetAXS allows you to assign cardholders different levels of access. Supervisor access allows an employee to present their card once to the reader to give individual access. If the supervisor presents their card twice, they enable access for their team during the specified time zone.

Escort access requires a supervisor escort for a non-supervisor cardholder. The supervisor must present his card first, then the non-supervisor must present his card within ten seconds.

Web-based Access Control System

ENCLOSURE OPTIONS

NetAXS-123

NetAXS-123 **Compact Plastic Enclosure**

PoE or 12 VDC Powered

Built-in **Tamper Switch**

Control Panel (NXC1)

- Ethernet Port: Connect to web browser or WIN-PAK software
- RS485 or Ethernet: Connect panels downstream and/or connect to WIN-PAK software
- USB Port: Easy setup and diagnostics from your laptop
- · Color coded terminal labels
- Removable terminal blocks

Multiple Tie-Down and Grounding Points

• Cleaner and more consistent installations

4 A, 12 VDC **Power Supply**

- Universal input (100-240 VAC)
- 3.5 A available to power accessories - over 1 A to power each door



NetAXS-123

Standard Metal Enclosure

Terminal Block with Input Fuse 12V Batterv Backup

NetAXS-123 Add-On Boards

NetAXS-123 One Door Add-on Board



NetAXS-123 Two Door Add-on Board



110V Plug

NetAXS-4

Deluxe Metal Enclosure

NetAXS-4

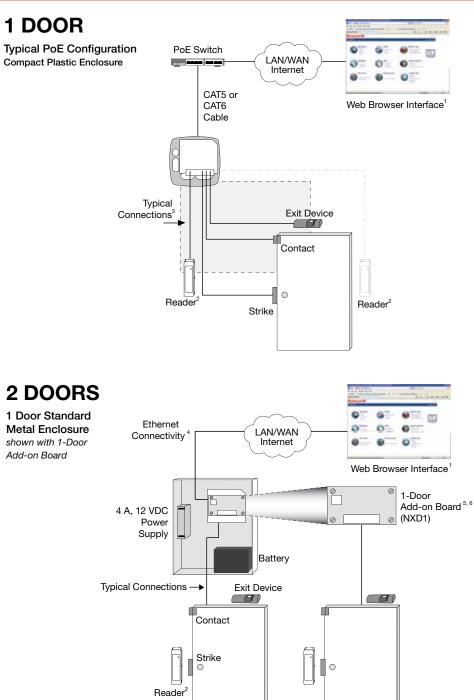
NetAXS-4 **Standard Metal Enclosure**

Control Panel (NX4PCB) On-Board Ethernet Port • Built-In PCI Function **Pre-Wired** • Multiple Communication Paths Panel Design Color Coded Terminal Blocks Power Door Fire-Rated Lock Locks **Power Release** 12V Noise **Fused Relay** Battery Suppression **Distribution** Module Backup Filter Convenient

24V Battery Backup

Web-based Access Control System

SYSTEM OVERVIEW

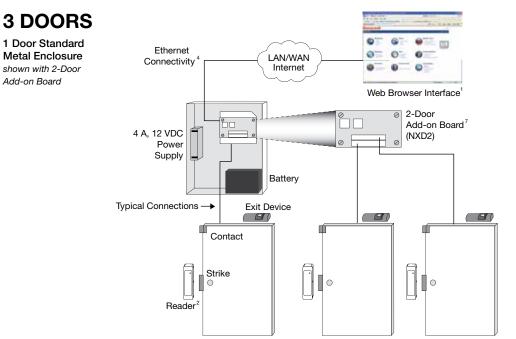


- 1. Also compatible with WIN-PAK $^{\otimes}$ XE, WIN-PAK SE, WIN-PAK PE and WIN-PAK PRO CS (Managed Access)
- 2. When using an IN and OUT reader, BOTH readers must have HOLD lines
- 450 mA, 12 VDC is maximum available to power strike, reader(s) and input devices when using a 802.3af PoE connection. If unit is externally powered with a 12 VDC supply, higher current is available.
- 6. Requires external power when used in compact plastic enclosure
- 7. 2-door add-on board is not compatible with compact plastic enclosure
- 8. When mixing NetAXS-123 and 4-door NetAXS (NetAXS-4) controllers, the NetAXS-123 must be configured as the first panel or gateway

- 4. USB compatibility for local configuration
- 5. 1-door add-on board compatible with compact plastic enclosure

Web-based Access Control System

SYSTEM OVERVIEW

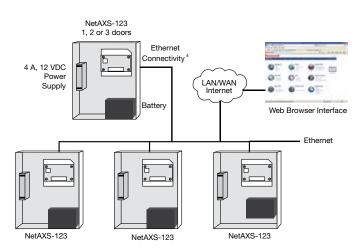


>3 DOORS

Scalable Architecture

>3 DOORS

Scalable Architecture Ethernet Virtual Loop



RS-485 panel loop Ethernet LAN/WAN Internet Connectivity o . 100 80 0 0 0 ø 0 Web Browser Interface¹ NetAXS-1238 4 A, 12 VDC 1, 2 or 3 doors Power Supply Battery RS485 multi-drop (up to 30 panels) NetAXS-123 NetAXS-123 NetAXS-123 or or or NetAXS-4 NetAXS-4 NetAXS-4

- 1. Also compatible with WIN-PAK® XE, WIN-PAK SE, WIN-PAK PE and WIN-PAK PRO CS (Managed Access)
- 2. When using an IN and OUT reader, BOTH readers must have HOLD lines
- 450 mA, 12 VDC is maximum available to power strike, reader(s) and input devices when using a 802.3af PoE connection. If unit is externally powered with a 12 VDC supply, higher current is available.
- 4. USB compatibility for local configuration
- 5. 1-door add-on board compatible with compact plastic enclosure

- 6. Requires external power when used in compact plastic enclosure
- 7. 2-door add-on board is not compatible with compact plastic enclosure
- 8. When mixing NetAXS-123 and 4-door NetAXS (NetAXS-4) controllers, the NetAXS-123 must be configured as the first panel or gateway
- NetAXS-123 v5.0 or later supports Ethernet Virtual Loop (EVL). NetAXS-4 DOES NOT SUPPORT EVL. Therefore, systems using EVL must use NetAXS-123 panels.

SPECIFICATIONS AND FEATURES

		NetAX	S-123	NetA	XS-4	
		NX1P	NX1MPS	NX4S1	NX4L1	
READERS/DOORS	Door/Reader Capability	1 DOOR Controller ^{1,4}	1, 2 or 3 DOOR Controller (NXD1 or NXD2 add-on board is required for 2nd or 3rd door)	Four READER controller		
SADC	Expandability	Expandable up to 93 DOORS (18		Expandable up to 124 doors (12	24 readers) per controller loop ^{2,3}	
EADEI	Dual Reader Control Capability (IN/OUT Reader per Door)	YES ⁵ – IN and OUT rea (readers must have I				
RE	Reader Compatibility	Standard Wiegand ABA not s	protocol supported	Standard Wiegand protocol supported ABA not supported		
	Number of Outputs	Two SPDT relays (jumper se per door rated a Two open collector outpu reader LED (Aux) and reader buz	t 3 A @ 28 VDC ts (OC) (16 ma, 12 VDC):	Eight SPDT, Form C relays rated at 10 A @ 28 VDC Eight open collector outputs (0C) (16 ma, 12 VDC): 4 reader LED (Aux Output) and 4 reader buzzer (Aux Output) are available.		
OUTPUTS	Output Expandability	2-door solution has 8 total outputs: 4 relays, 4 OC (requires NXD1 add-on board)	2-door solution has 8 total outputs: 4 relays, 4 OC (requires NXD1 add-on board) 3-door solution has 12 total outputs: 6 relays, 6 OC (requires NXD2 add-on board)	4-door solution expandable to 72 total outputs using a maximum of four (4) NX40UT relay output boards		
	Relay Power Source	Selectable: +12 VDC 0 to 28 VDC externa	•	0 to 28 VDC externally supplied source	+24 VDC self-powered	
	Number of Inputs	Controller has a total of six config points. (Factory default settings are S Tamper B, Power Fa	tatus, REX, Reader Tamper A, Reader	14 configurable four-state supervised input points		
INPUTS	Input Expandability	2-door solution has a total of 10 inputs (requires NXD1 add-on board)	2-door solution has a total of 10 inputs (requires NXD1 add-on board). 3-door solution has a total of 14 inputs (requires NXD2 add-on board)	4-door solution expandable to 78 total inputs ⁵ using a maximum of two NX4IN relay input boards.		
	Power-Fail and Panel Tamper	Yes	Yes	Yes	Yes	
OWER INPUT	"Off the Wall" Tamper Capability Unit Input	Yes Power over Ethernet (PoE) 802.3af or external 12 VDC supply	 93 VAC to 264 VAC, 50/60 Hz input provides 12 VDC, 4 A output	 120 VAC, 6 A, 60 Hz input for wall transformer provides 16.5 VAC @ 50 VA output	 115 VAC, 60 Hz, 2 A power supply input provides 24 VDC, 6 A output	
WER	Socket or Hardwire AC Input	 Power over Ethernet (PoE)	Yes +12 VDC from included power	 16.5 VAC from included wall	Yes +24 VDC from included power	
PO	Control Board Power Input	or +12 VDC	supply	mount transformer 600 mA auxiliary current	supply 600 mA auxiliary current available	
POWER OUTPUT	Power for Reader(s) and Input Devices Power for Locks/Strikes	450 mA, 12 VDC is available to power strike, reader(s) and input devices when using PoE If higher current is needed, power by external 12 VDC supply	1.15 A per door for locks/strikes, readers and input devices (3.5 A @ 12 VDC total)	available to power the readers and other devices Locks/strikes must be externally powered	to power the readers and other devices 1.1 A per door for locks/ strikes (4.4 A @ 24 VDC total)	
POW	Backup Battery System	External ⁶	12 VDC, 7 AH battery	12 VDC, 7 AH battery	Two 12 VDC, 7 AH batteries	
¥	Material	High Impact Plastic	Metal	Metal	Metal	
ENCLOSURE	Physical Enclosure Size	7.75"H x 7.75"W x 2.75"D	13.9"H x 11.9"W x 4.7"D	18"H x 15"W x 4.5"D	23.9"H x 17.7"W x 4"D	
ENCL	Wiring Access Holes/Knockouts	7	19	8	30	
_	Removable Terminal Blocks with Color Coded Labels	Yes	Yes	Yes	Yes	
LLAT	Graphic Wiring Cards/Labels	Yes	Yes	Yes	Yes	
INSTALLATION	Captive Mounting Hardware Cable Shield Termination Points	Yes 	Yes	 Yes	 Yes	
	Real Time Clock		Global Geographic Tin Daylight Saving Ti	ne Zone Support	100	
NO	Clock Synchronization					
MATI	Processor	Freescale Co	ldfire 32-bit	Freescale Coldfire 32-bit		
SYSTEM INFORMATION	System MTBF (mean time between failures)	250,000		250,000 hours		
	Temperature Ratings		32 to 120°F (0°C to 4 -67 to 185°F (-55°C to			
SYS	Certifications and Approvals	CE and FCC UL-294	compliant	CE and FCC compliant UL-294 listing	FCC compliant UL-294 listing	

SPECIFICATIONS AND FEATURES

Status LEDs 12 LEDs total (12V power, PoE, over current, Ethernet, RS485, reader(s), door state, run, relay status) 19 LEDs total (Power, system run, Ethernet downstream, readers, relay status) Status LEDs Built-in Communication Options Ethernet, USB ⁸ , RS485 Ethernet, RS485, RS232 I/O Expansion Module Use RS485 port to connect a maximum of 6 downstream I/O modules Use RS485 port to connect a maximum of 6 downstream I/O modules Use RS485 port to connect a maximum of 6 downstream I/O modules Connectivity Use RS485 port to connect a maximum of 6 flower, system run, Ethernet, RS485, RS232 Use RS485 port to connect a maximum of 6 downstream I/O modules Connectivity Use RS485 port to connect a maximum of 6 flower, system run, Ethernet, RS485, reader(s), (4 output and 2 input) Use RS485 port to connect a maximum of 6 modules (4 output and 2 input) Controller Loop Capability Total of 16(EVL)/31(RS485) panels in a loop ^{2,3} Total of 31 panels in a loop ^{2,3} NetAXS-123 as Gateway Panel Supported downstream panels include NetAXS-123 and NetAXS-4 see notes 2 & 3. NetAXS-4 as Gateway Panel NetAXS-4 as Gateway Panel Currently supported downstream panels include NetAXS-123, NetAXS-4, N-1000 family and NS2 Ns2 using PCI3 Converter Supported downstream panels include NetAXS-123 or NetAXS NetAXS-123 or NetAXS Using N-485-PCI-2 Converter Not compatible with NetAXS-123 or NetAXS	tus) downstream I/O tt) .3					
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Card only, card and PIN, card or PIN, PIN only, lockdown, disabled, supervisor, escort, limited use card, expire of	on date,					
	on date,					
S Interlocks for custom actions Yes Yes Yes Yes	Yes					
Anti-Passback Capability Anti-Passback Capability Anti-Passback Capability Anti-Passback Capability Anti-Passback Capability NetAXS-123 allows anti-passback using In and Out readers per door (local and global) ⁵						
Card and Event Buffer Capacity 10,000 card capacity, 25,000 event capacity						
	On-board flash memory for field firmware revision updates and feature expansion					
Offline Database backup available Card and configuration databases	Card and configuration databases					
Export Capabilities Card database, alarms and events (CSV format) ⁵	Card database, alarms and events (CSV format) ⁵					
Kumber of Card Formats 128 unique card formats can be supported ⁵	128 unique card formats can be supported ⁵					
End Site Codes	8					
Maximum Card Format Size 75 -bit (maximum card $\# = 64$ -bits) ^{5,7}	75-bit (maximum card $\# = 64$ -bits) ^{5,7}					
Offline Database backup available Card and configuration databases Export Capabilities Card and configuration databases Number of Card Formats Card database, alarms and events (CSV format) ⁵ Number of Card Formats 128 unique card formats can be supported ⁵ Site Codes 8 Maximum Card Format Size 75-bit (maximum card # = 64-bits) ^{5,7} Time Zones 127 ⁵	127 ⁵					
Access Levels 128						
Holidays 255 ⁵						
Integrated basic reports Yes Yes Yes	Yes					
Import/export of card database Yes Yes Yes Yes	Yes					
Signature Integrated basic reports Yes Yes Import/export of card database Yes Yes Yes Alarms and events can be exported and saved in offline storage Yes Yes	Yes					
Supported Browsers Internet Explorer and Mozilla Firefox						
Icon Driven Landing Page Yes						
Here Web Browser Control Full control monitor and view live events manually control doors and readers						
Bit Web Browser Control Full control monitor and view live events manually control doors and readers Bit Web Server Support All access control functions Bit Secure Web Browsing SSL and SHA-1 secure socket layer encryption Dynamic Screen Befresh Yes						
Dynamic Screen Refresh Yes						
Multiple user connections Yes Yes Yes Yes	Yes					
Global Languages Supported English, Italian, French, Dutch, Spanish, Czech, Simplified Chinese and Arabic English, Italian, French, Dutch, Spanish, Czech an	nd Simplified Chinese					
Printed Documentation English, Italian, French, Dutch, Spanish, Czech, Simplified Chinese and Arabic English Quick Start Guides Yes Full User and Installation Guides on product CD on product CD Printed Multi-Language Basic Yes Installation Guides User Translated Files Customer ability to export, import, modify, create and add language files.Can be selected for use with unique login Power over Ethernet (PoE) Yes Universal Power Supply Input Power over Ethernet (PoE) Yes	English					
Quick Start Guides Yes Yes						
By Full User and Installation Guides on product CD on product CD Printed F	Printed					
Yes Yes						
Installation Guides						
User Translated Files Customer ability to export, import, modify, create and add language files. Can be selected for use with unique login	accounts.					
B Universal Power Supply Input Power over Ethernet (PoE) Yes 802.3af 93-264 VAC, 50/60 Hz input						

 A second door may be added with a NXD1 add-on board however, PoE power restrictions apply (see footnote 4).
 RS-485 panel loop: A total of 31 NetAXS-123 and NetAXS-4 panels may be combined in 6. An external UPS is required to power the PoE power source for battery backup.

7. Suitable for handling the 75-bit transparent card format of PIV, TWIC and FRAC cards.

8. USB port for setup and troubleshooting.

9. WIN-PAK software compatibility for NetAXS

a) All NetAXS versions programmed as an N1000:

a controller loop for a maximum of 123 doors. Ethernet Virtual Loop (EVL): A total of 16 NetAXS-123 panels may be combined in a controller loop for a maximum of up to 48 doors. NetAXS-4 panels CANNOT be used with an EVL.

 When mixing NetAXS-123 and NetAXS-4 controllers, NetAXS-123 must be the gateway Panel and the panel loop must be RS-485.

4. 450 mA, 12 VDC is maximum current available to power strike, reader(s) and input devices when using a 802.3af PoE connection. If unit is externally powered, higher current is available.

5. When using WIN-PAK software, this feature may have limitations or not exist.

WIN-PAK 2005, WIN-PAK PRO 2005, WIN-PAK 2.0 Release 4 b) NetAXS v3.x: WIN-PAK v3.0-3.2 (Builds 670.14 or greater) or WIN-PAK CS 4.2 (Build 1017.33 or greater)

WIN-PAK SE, WIN-PAK PE, WIN-PAK PRO CS, WIN-PAK CS 4.1

c) NetAXS v4.0 or greater: WIN-PAK v3.3 (Build 670.21) or greater or WIN-PAK CS 4.2 (Build 1017.33) or greater

Web-based Access Control System

ORDERING

Part Number	Description
NetAXS-123	
1 Door Solutions	
NX1P	NetAXS-123: One door, compact (plastic) enclosure - PoE or externally powered
NX1MPS	NetAXS-123: One door, standard (metal) enclosure with tamper switch and terminal block. Includes 4 A, 12 VDC output/100-240 VAC input power supply and 12V, 7 AH battery
Add-on Boards (For 2	and 3 door solutions)
NXD1*	NetAXS-123: One door add-on board (Adds 1 door to your existing 1-door system = 2 doors)
NXD2**	NetAXS-123: Two door add-on board (Adds 2 doors to your existing 1-door system = 3 doors)
NetAXS-123 Compone	ents & Accessories
NXC1	NetAXS-123 - Control Board only
NetAXS-123 Access C	Control Starter Kits with Readers
NX1P10	NetAXS-123: Includes NX1P One door compact (plastic) enclosure and (1) OP10HONR mini-mullion proximity reader
NX1MPS10	NetAXS-123: Includes NX1MPS One door, standard (metal) enclosure with power supply and battery and (1) OP10HONR mini-mullion proximity reader
NXD1OP10	NetAXS-123: Includes NXD1 One door add-on and (1) OP10HONR mini mullion proximity reader (Adds 1 door to your existing 1-door system = 2 doors)
NXD2OP10	NetAXS-123: Includes NXD2 Two door add-on and (2) OP10HONR mini-mullion proximity readers (Adds 2 doors to your existing 1-door system = 3 doors)
NetAXS-4	
NetAXS-4 Web Based	Access Control Panels
NX4S1	NetAXS-4: 4 Door Control Panel (Standard Enclosure)
NX4L1	NetAXS-4: Pre-wired 4 Door Control Panel (Deluxe Enclosure)
NX4PCB	NetAXS-4: NetAXS PCB Board with Manual and (4) Surge Suppressors
NetAXS-4 Access Cor	ntrol Starter Kits with Readers
WPNX4L30	NetAXS-4: IP Ready Access Starter Kit with WIN-PAK, NX4S1 Deluxe Standard Enclosure Option and (4) OP30HONR Mullion Proximity Readers
WPNX4S30	NetAXS-4: IP Ready Access Starter Kit with WIN-PAK, NX4S1 Standard Enclosure Option and (4) OP30HONR Mullion Proximity Readers
NX4OP30S	NetAXS-4: NetAXS with Standard Enclosure - Standalone Web-based Access 4 Door Kit with (4) OP30HONR
NX4OP40S	NetAXS-4: NetAXS with Standard Enclosure - Standalone Web-based Access 4 Door Kit with (4) OP40HONR
NX4OP30L	NetAXS-4: NetAXS with Deluxe Enclosure - Standalone Web-based Access 4 Door Kit with (4) OP30HONR
NX4OP40L	NetAXS-4: NetAXS with Deluxe Enclosure - Standalone Web-based Access 4 Door Kit with (4) OP40HONR
NetAXS Accessories	
NX4IN	NetAXS Input Board – 32 inputs per board. Connect 2 per panel. Total 64 inputs
NX4OUT	NetAXS Output Board – 16 relays per board. Connect 4 per panel. Total 64 relays
External power adapter required for NX4IN and NX4OUT	Input: 100-240VAC, 1.3A, 50-60Hz Output: 24 VDC, 2.3A, 55 Watts
NXIOENCKT	Double board enclosure for NX4IN, NX4OUT

* Requires external power when used in compact plastic enclosure ** 2-door add-on board is not compatible with compact plastic enclosure

For more information:

www.honeywell.com/security

Automation and Control Solutions

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