

# NXAC2 SERIES

NX AREA CONTROLLER V2

## FEATURES

- Single pane of glass provides real-time programming & management of entire NX Lighting Control System
- No software required - built-in web server provides connection via any Internet Explorer® compatible browser
- Each Area Controller supports up to 1000 NX devices
- Integrates NX Lighting Control System and Building Automation System (BAS) via BACnet IP. BTL Listed.
- Multi-layer network security and access control including HTTP or HTTPS connections, secure user logins and user roles
- Facilitates power/energy monitoring of NX controlled building lighting system
- Powerful network diagnostic tools for faster start-up of large lighting networks
- Ability to connect via cellular for remote diagnostics and management



## RELATED PRODUCTS



[NX Room Controllers](#)

[NX Network Bridge Modules](#)

[NX Fixture Modules](#)

[NX SMP2 Sensors](#)

[NX Lighting Control Panels](#)

[NX Switch Stations](#)

## SPECIFICATIONS

### CONSTRUCTION

- Design: Solid State – No moving parts
- CPU: Intel® i7
- Memory: 16 GB
- Storage: 500 GB
- Front I/O:
  - 1x Power Switch
  - 4x USB 2.0 Ports
  - 2x RS232 Ports
  - 1x LTE Modem Switch
- Rear I/O:
  - 2x Intel® 10/100/1000 NICs (1 Ethernet Network / 1 NX Network)
  - 12VDC In
  - 2x SMA LTE Antenna Ports
  - 1x DisplayPort
  - 1x HDMI Port
  - 2x USB 3.0 Ports
- Size: 7.32"W x 2.6"H x 4.9"D (186mm x 6mm x 126mm)
- Weight: 2.9LB (1.31KG)
- Housing Color: Black

### INSTALLATION

- Mounting:
  - Wall mounted (wall mount kit included)
  - DIN rail mounted (DIN rail kit included)
- Operating Temperature: 32°F to 104°F (0°C to 40°)
- Relative Humidity: 0 to 95% non-condensing

### ELECTRICAL

- Power Supply: Input: 120-240VAC; 50/60Hz; 1.5A AC Adapter (Included)
- Output: +12VDC 7.5A 90W
- Size: 5.25"L x 2.25"W x 1.25"D (133mm x 57mm x 32mm)

### ETHERNET CONNECTIVITY

- WAN Port: 10/100/1000Mbps; Connects to owner-provided I/P network; Supports DHCP or Static IP (Configured using NX Area Controller Software)
- LAN Port: 10/100/1000Mbps; Connects to NX Network; Used for discovery and management of NX devices
- Wireless: IEEE 802.11b/g/n, including repeater mode
- Security: WPA2 Enterprise
- Wi-Fi Client: Not supported

### REMOTE CONNECTION

- Antenna Cables:
  - 2x 10ft antenna cables with magnetic mount
  - 2x Metal wall mount L-brackets
- Antennas: 2x High-gain LTE Antennas, 11.5" (292mm)
- Mobile:
  - 4G LTE – Up to 150Mbps
  - 3G – Up to 42Mbps
  - 2G – Up to 236.8kbps
- United States: ATT, T-Mobile/Sprint
- Modem Switch: Remote cellular and Wi-Fi radios can be physically turned off with LTE modem switch located on front I/O panel
- Connection Plan: Remote support via Remote Connect is enabled at installation and includes an initial 12-month cellular connectivity plan. For extended periods of connectivity, supplemental plans can be purchased at any time.
- Remote connectivity provides connected assistance from NX Lighting Control Experts
- Eliminates costly technician dispatches and enables faster support response times
- Keeps system performance optimized via remote comprehensive programming, sustainment and preventive maintenance support
- NOTE: NX Systems continue to operate when remote connectivity is manually turned off or when a connectivity plan is inactive

### NETWORK SECURITY

- Encryption: Traffic between user and cloud service is protected using AES encryption
- Remote Connection traffic between the NX Area Controller and cloud service is protected using AES encryption
- NX Area Controller Remote Connect Cloud Portal is protected using SSL encryption
- Attack Prevention: IT administrators may request a list of required public IP's and Ports that are necessary for access, significantly reducing attack vectors
- Firewall: Pre-configured firewall
- Port Scan: DDOS and port scan prevention
- Access control: Userid/Password
- Certification: ioXT
- Complies with California Civil Code Title 1.81.26, Security of Connected Devices, approved under Senate Bill No. 327 (2018)

### COMMUNICATIONS:

- Ethernet Connection Speed: 10/100/1000Mbps
- Addressing: IPv4 or Hostname
- BACnet Profile(s): BACnet General (B-GENERAL), BACnet Application Specific Controller (B-ASC)
- BACnet Interconnectivity: BBMD forwarding capabilities; BACnet I/P
- BACnet Transport Layer: IP
- Web Server Protocol: HTML5
- Wi-Fi Communication Protocol: IEEE 802.11b/g/n

### WARRANTY

- 5 year limited warranty
- See website for additional information

<sup>1</sup> BACnet is a registered trademark of ASHRAE. ASRAE does not endorse, approve or test products for compliance with ASHRAE standards. Compliance of listed products to the requirements of ASHRAE Standard 135 is the responsibility of BACnet International (BI). BTL is a registered trademark of BI.

# NXAC SERIES

NX AREA CONTROLLER V2

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

## ORDERING GUIDE

Example: NXAC2-120

CATALOG #

NXAC2		120
Model		Voltage
NXAC2*	NX Area Controller V2.0, NX Network, BACnet I/P Interface, Remote Connect/Wi-Fi, Wall/DIN Rail Mounting Kits, 120V	120 120-240VAC

\* NXAC2-120 is a stocked item.

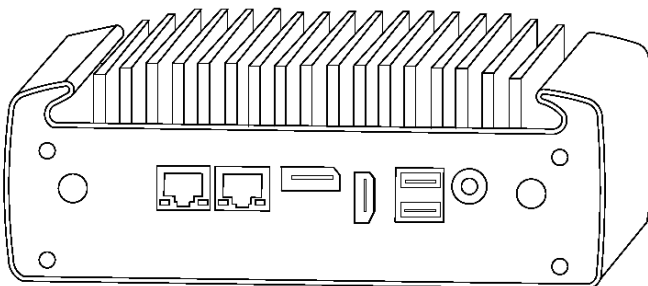
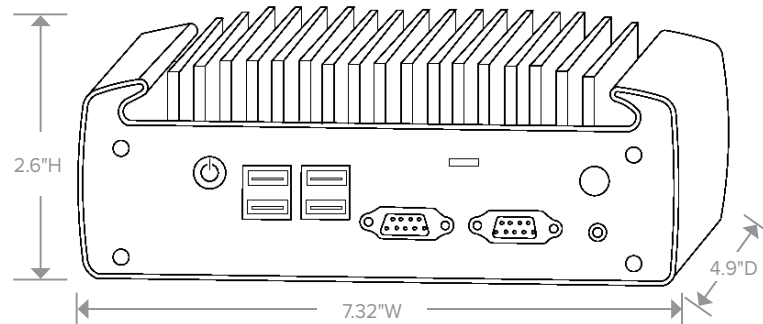
## ACCESSORIES

Example: NXENC-D

CATALOG #

NXENC-D	
Model	
NXENC-D	NX Accessory Enclosure with Screw Cover (12"x15"x4"), DIN Rail, Gray

## DIMENSIONS



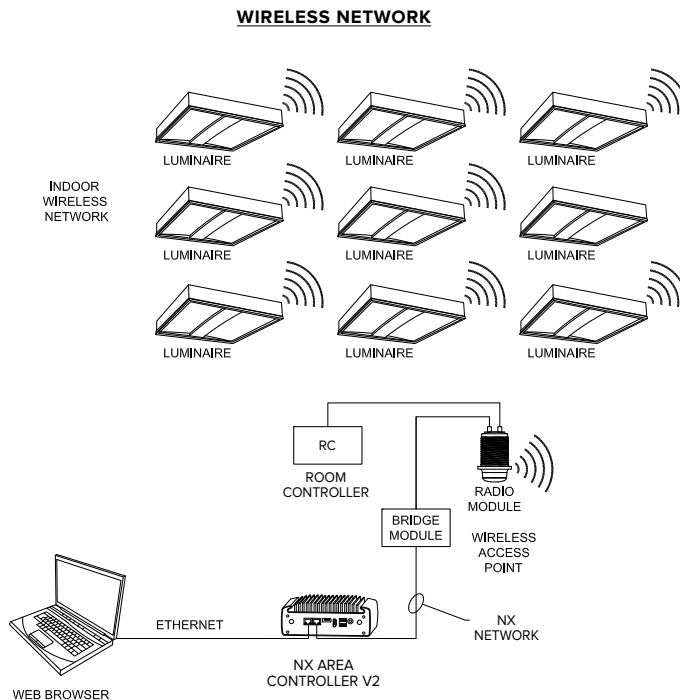
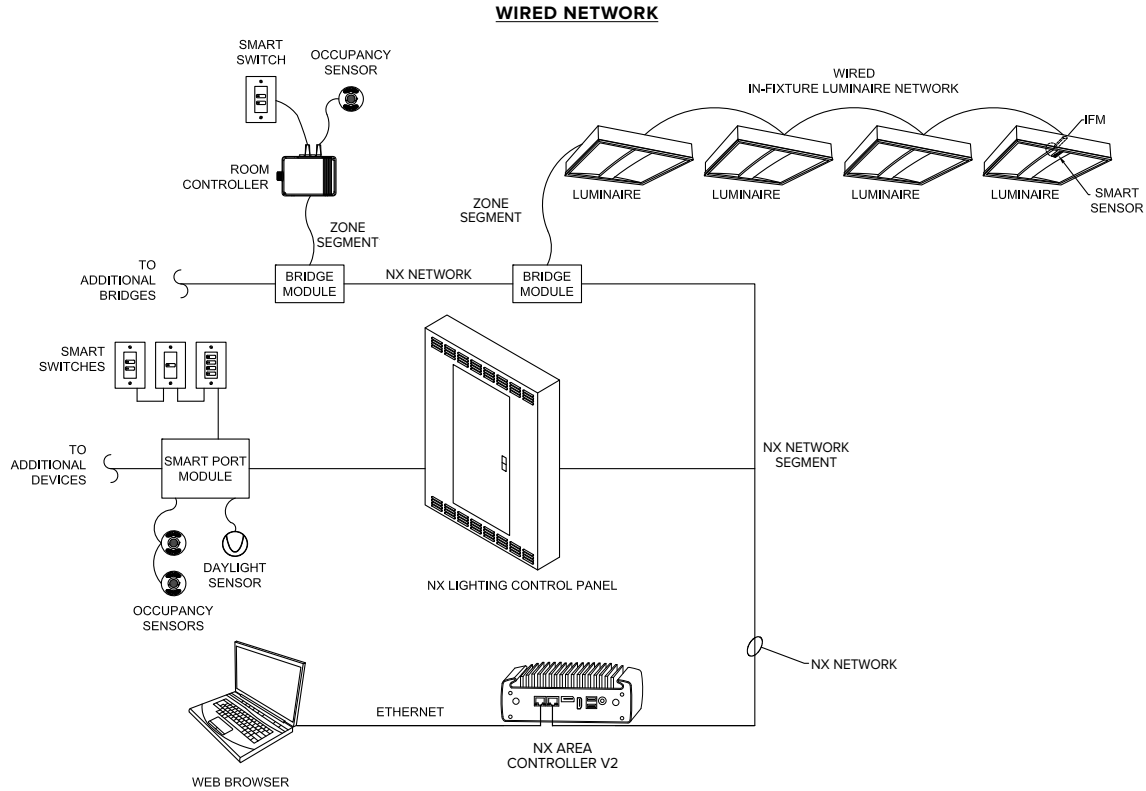
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## ADDITIONAL INFORMATION

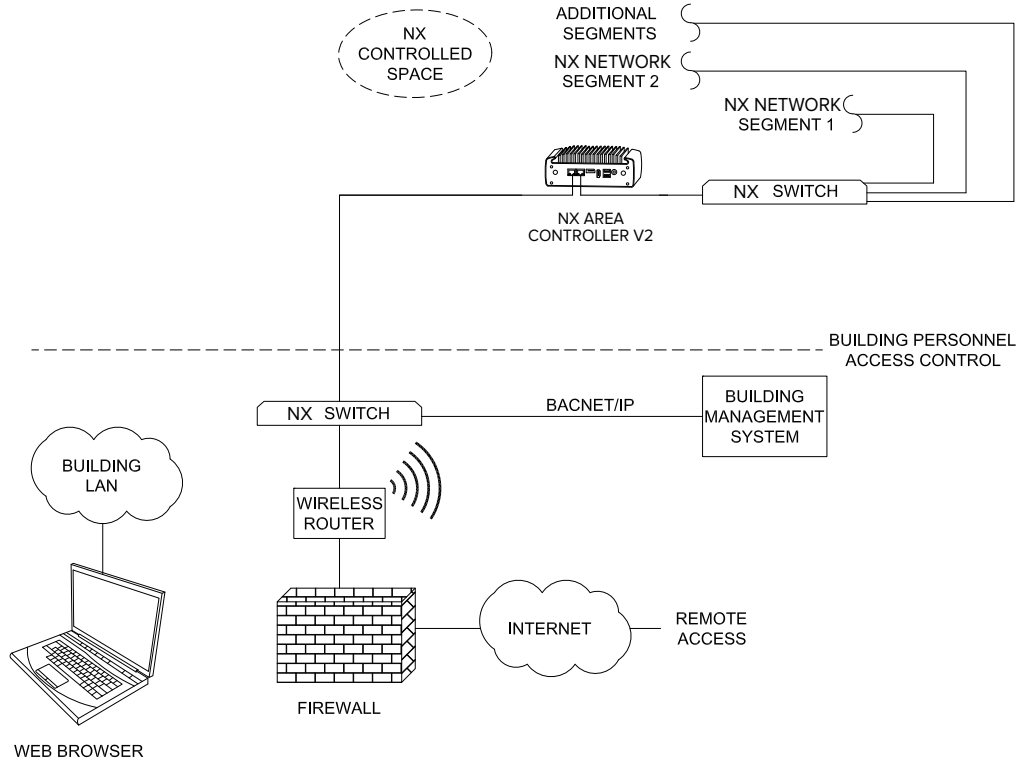
### Wiring Diagrams



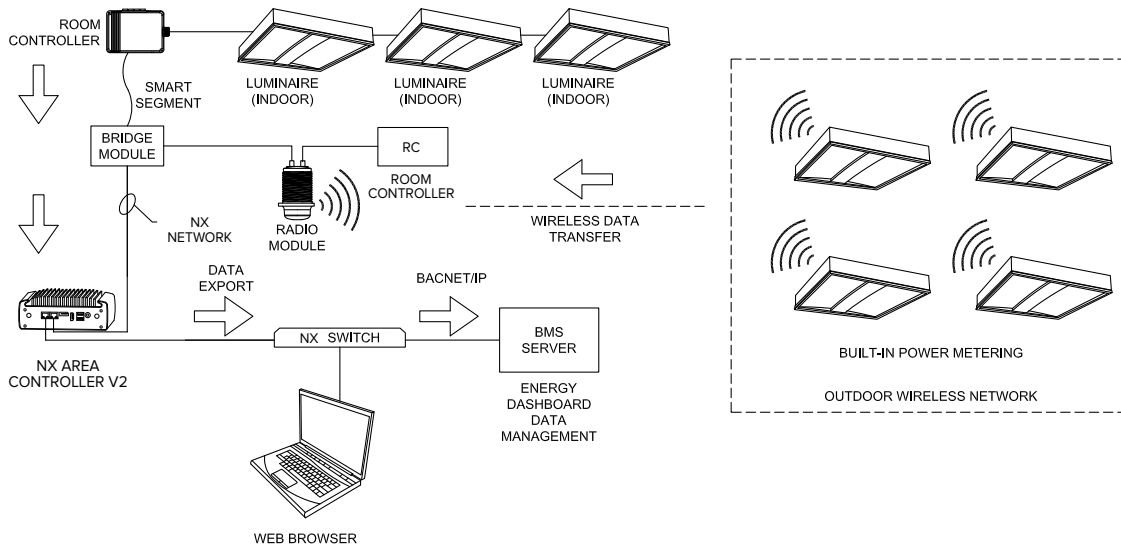
## ADDITIONAL INFORMATION (CONTINUED)

### Wiring Diagrams (Continued)

#### NETWORK ACCESS AND MANAGEMENT



#### ENERGY MONITORING AND MANAGEMENT



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## ADDITIONAL INFORMATION (CONTINUED)

### Wiring Diagrams (Continued)

