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NetLinx® NX Integrated Controller

NX-2200 (FG2106-02)



Overview

The NX-2200 / NetLinx® NX Integrated Controller is a programmable network appliance specifically designed to control AV and building technology using multiple analog and digital formats. The NX-2200 provides a scalable platform for the future by combining high performance, backward compatibility and extensive network security features. The NX-2200 is ideal for control and automation of medium-sized rooms and multi-room applications, as it includes more ports and security capabilities than the NX-1200.

Common Applications

- The NX-2200 is a good fit for medium-sized conference rooms or classrooms, lecture halls, home theaters, hotel rooms and building environmental systems.
- With enhanced security features like Dual NIC, the NX-2200 provides secure control and monitoring for a medium-sized AV system, HVAC, lights, security, power management, and many similar specialized applications requiring economical control with limited physical ports.

Features

- **Dual NIC** The LAN port is used to connect the master to an external network, and the ICSLAN ports connect to AMX or third-party A/V equipment isolated from the primary network, providing rock-solid security
- IPv6 and wired 802.1x Supports modern networking standards for internet protocol IPv6 and port-based Network Access Control utilizing X.509 certificates for access to protected networks
- Full LDAP Integration Supports multiple user-defined login groups for accessing the master, as well as
 provides an AMX programmer the capability to require network login to access certain areas of the touch
 panel
- High Performance Architecture, Flexible Programming Platform (RPM, NetLinx and Java) Easily scalable to support a wide range of applications for today and tomorrow
- Full Line Compatible (Backwards and Cross-Compatibility) Standardized port numbers and new
 configuration import/export tools mean fewer coding changes
- SSH Client Provides NetLinx programmers the ability to manage secure port SSH communications with a server
- Network Syslog Supports standard device logging to a syslog server
- Enhanced Diagnostics On Serial and IR Ports Provides real time error feedback when Serial and IR ports are disconnected or improperly wired
- File Import / Export From USB Drive Backup and restore configuration and program data and update firmware from a standard USB flash drive

 Hardware / Software Built for 24/7/365 Operation – Provides outstanding reliability and improved diagnostics

Additional Features

- Ultra-Fast 1600 MIPS processor
- 512 MB Onboard RAM
- 1 M Non-Volatile Memory
- 8 GB SDHC FLASH Memory
- 1 RU Rack Space
- 1 AXLink Interface
- 1 10/100 LAN Interface
- 1 10/100 ICSLan Interface
- 4 Digital I/O Ports
- 1 RS-232/422/485 Port
- 3 RS-232-Only Ports
- 4 IR/Serial Output Ports
- 4 Relay Ports

Specifications

| GENERAL | |
|-----------------------|---|
| Enclosure | Metal with black matte finish |
| Dimensions (HWD) | 1 3/4" x 17" x 9 1/8" (44.86 mm x 431.80 mm x 231. |
| | mm) |
| Weight | 6.08 lb. (2.758 Kg) |
| Regulatory Compliance | FCC CFR Title 47 Part 15 |
| | CE EN 55022 |
| | CE EN 55024 |
| | CE EN 60950-1 |
| | IEC 60950-1 |
| | UL 60950-1 |
| | C-Tick CISPR 22 |
| | IC CISPR 22 |
| | VCCI CISPR 22 |
| | RoHS |
| | WEEE |
| Included Accessories | • 2-pin 3.5 mm mini-Phoenix (female) PWR connect |
| | (41-0002-SA) |
| | • 4-pin 3.5 mm mini-Phoenix (female) AxLink |
| | connector (41-5047) |
| | • 10-pin 3.5mm mini-Phoenix female RS-232/422/48 |
| | connectors (41-5107) |
| | • (3) 5-pin 3.5mm mini-Phoenix female RS-232 |
| | connectors (41-0336) |
| | • 6-pin 3.5 mm mini-Phoenix female I/O connector |
| | (41-5063) |
| | • 8-pin 3.5 mm mini-Phoenix female Relay connecto |
| | (41-5083) |
| | • (2) CC-NIRC IR Emitters |
| | • (2) Removable rack ears |
| Optional Accessories | PSN6.5, 6.5 A Power Supply (FG423-41) |
| | • PSR4.4, 13.5 VDC, 4.5 A Power Supply with 3.5 mm |
| | Phoenix Connector with Retention Screws (FG423-4 |
| | • PSN4.4, Power Supply, 4.5 A, 3.5 mm Phoenix, 13. |
| | VDC (Discontinued) (FG423-45) |
| | • CC-USB-NI, USB Programming Cable (FG10-2105) |
| | CC-NIRC, IR Cables (FG10-000-11) |

| CC-NET, Cat5 Ethernet Cable (FG10-051-10) |
|--|
| CBL-ETH-FL, Ethernet Cat5e Flat Cable (FG10-2182- |
| 16) |
| EXB-IRS4, ICSLan IR/S Interface, 4 IR/S and 4 Inputs |
| (FG2100-23) |
| EXB-COM2, ICSLan Serial Interface, 2 Ports (FG2100- |
| 22) |
| EXB-REL8, ICSLan Relay Interface, 8 Channels |
| (FG2100-20) |
| • EXB-I/O8, ICSLan Input/Output Interface, 8 Channels |
| (FG2100-21) |
| • EXB-MP1, ICSLan Multi-Port, 1 COM, 1 IR/S, 2 I/O, 1 |
| IR RX (FG2100-26) |
| |

| ACTIVE POWER REQUIREMENTS | |
|---------------------------|-------------------------------------|
| Voltage, DC (typical) | 12 VDC |
| DC Current Draw | 250 mA @ 12 VDC |
| Voltage DC Range | 9 - 18 VDC |
| Power Connector | 3.5mm Phoenix with retaining screws |

| POWER CONSUMPTION | |
|--------------------------|-------|
| Active Power Consumption | 4.2 W |

| ENVIRONMENTAL | |
|----------------------------|----------------------------------|
| Temperature (Operating) | 32° F to 122° F (0° C to 50° C) |
| Temperature (Storage) | 14° F to 140° F (-10° C to 60°C) |
| Humidity (Operating) | 5% to 85% RH |
| Heat Dissipation (Typical) | 14.3 BTU/hr |

| ONBOARD MASTER | |
|--------------------------|--|
| Processor | 1600 MIPS |
| Program Port | (1) USB Standard B |
| Configuration Dip Switch | 4-position |
| Status Indicator | Status LED (green) blinks to indicate that the system is programmed and communicating properly |
| Input Indicator | Input LED (yellow) blinks to indicate that the Controller is receiving data |
| Output Indicator | Output LED (red) blinks to indicate that the Controller is transmitting data |
| ID Pushbutton | Black ID pushbutton for setting IP mode and reverting to default configuration and firmware |
| USB Host Port | (2) USB Standard A, one on front and one on back, USB Host port supports Solid State drive for upgrading firmware, loading code files, copying configuration data and remote storage |

| MEMORY | |
|-------------|--|
| NVRAM | 1 MB |
| Memory Card | 8 GB SD |
| DDRAM | 512 MB |
| Note | Supports external USB Solid State Drives |

| ETHERNET | |
|--------------------|---|
| Connection | (1) RJ-45 |
| Description | 10/100 Port RJ-45 connector provides TCP/IP communication. Auto MDI/MDI-X enabled. Supports IPv4 and IPv6 networks. Supports HTTP, HTTPS, Telnet, FTP |
| Link/Act Indicator | Link/Activity LED (green) blinks when receiving Ethernet data packets, one on Ethernet RJ-45 connector and one on the front panel |
| Speed Indicator | Speed LED (yellow) lights On when the connection speed is 100 Mbps Ethernet connection and turns OFF when the speed is 10 Mbps |

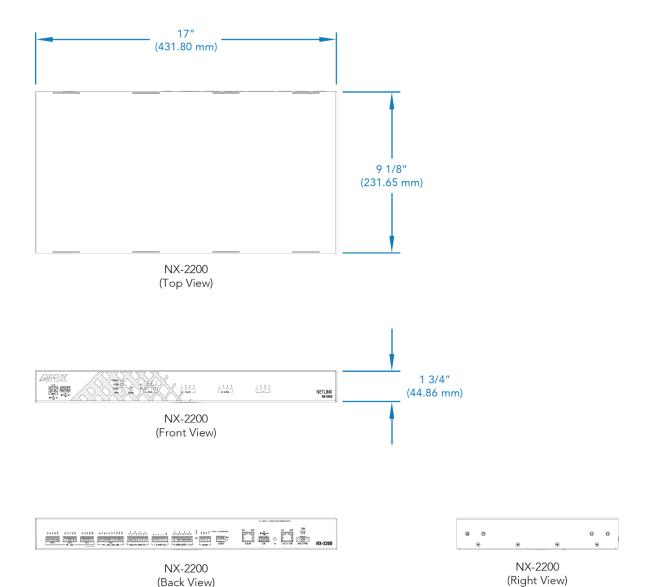
| ICSLan | |
|------------------------------|--|
| ICSLan Connection | (1) RJ-45, 10/100 Port RJ-45 connector. Auto MDI/MDI-X enabled. Supports IPv4 and IPv6 networks. Supports HTTP, HTTPS, Telnet, FTP |
| ICSLan Link/Active Indicator | ICSLan LED (green) blinks when receiving Ethernet data packets, one on Ethernet RJ-45 connector and one on the front panel |
| ICSLan Speed Indicator | Speed LED (yellow) lights On when the connection speed is 100 Mbps Ethernet connection and turns OFF when the speed is 10 Mbps |

| CONTROL PORTS & INDICATORS | |
|----------------------------|---|
| AxLink Port | (1) 4-position 3.5mm Screw Terminal, provides data and power to external AxLink control devices |
| AxLink Indicator | (1) AxLink LED (green) indicates the state of the AxLinl port |
| RS-232/422/485 Port | (1) 10-position 3.5mm Screw Terminal NetLinx Port 1 XON/XOFF (transmit on / transmit off) CTS/RTS (clear to send/ready to send) 300 - 115,200 baud |
| RS-232 Port | (3) 2-position 3.5mm Screw Terminal NetLinx Port 2-4 XON/XOFF (transmit on / transmit off) CTS/RTS (clear to send/ready to send) 300 - 115,200 baud |
| Serial Indicator | (4) sets of LEDs (red/yellow) indicate when serial Ports 1-4 are transmitting and receiving data |
| IR/Serial | (4) 2-position 3.5mm Screw Terminal 4 IR Transmit / 1-way Serial ports NetLinx Ports 11-14 Support high-frequency carriers up to 1.142 MHz 4 IR/Serial data signals can be generated simultaneously |
| IR/Serial Indicators | (2) LEDs (red) indicate when each of the IR/Serial ports (11-14) are transmitting control data |
| I/O Channels | (4) One 6-position 3.5mm Screw Terminal 4-channel binary I/O port for contact closure with eac input being capable of voltage sensing NetLinx Port 22 Channels 1-4 |
| I/O Indicator | (4) LEDs (yellow) indicate each of the I/O |

| | channels (1-4) are active |
|------------------|---|
| Relays | (4) One 8-position 3.5 mm Screw Terminal, (4) single- |
| | pole, single-throw relays |
| | NetLinx Port 21 |
| | Channels 1-4 |
| | Each relay can switch up to 24 VDC or 28 VAC @ 1 A |
| | Each relay is independently controlled |
| Relay Indicators | (4) LEDs (red) indicate when each of the relay |
| | channels (1-4) are active (closed) |



For a more detailed pictorial drawing please visit: http://www.amx.com/products/NX-2200.asp



AMX hardware and software solutions simplify the implementation, maintenance, and use of technology to create effective environments. With the increasing number of technologies and operating platforms at work and home, AMX solves the complexity of managing this technology with reliable, consistent and scalable systems. Our award-winning products span control and automation, system-wide switching and audio/video signal distribution, digital signage and technology management. They are implemented worldwide in conference rooms, homes, classrooms, network operation / command centers, hotels, entertainment venues, broadcast facilities, and more. ©2016 AMX. All rights reserved. Specifications subject to change. 17-May-2016.

AMX.com | 800.222.0193 | 469.624.8000 | +1.469.624.7400 | fax 469.624.7153

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