

# NI-700



## NOW THERE ARE FOUR

Introducing the new NI-700, a compact and powerful addition to the AMX NI Series line of NetLinX Integrated Controllers. By expanding this extremely popular NetLinX Control System product line, the NI Series now offers four distinct configurations: the NI-700, NI-2000, NI-3000 and NI-4000. Integrate a NetLinX controller for any size commercial or residential solution.

## NEW FRONTIER

The NI-700 opens up new efficient opportunities in smaller scale control system projects without compromising the robust capabilities you expect from NetLinX.

## BY POPULAR DEMAND

The NI-700 is driven by an ultra-fast NetLinX master, to seamlessly automate a room. Engineered specifically as a single room control system solution, it includes the most widely requested mix of interface ports, functionality and compatible control formats:

- 2 – RS-232 / RS-422 / RS-485 Serial Ports
- 1 – IR Emitter Port
- 1 – IR Receiver Port
- 4 – Digital I/O Channels
- 1 – Ethernet 10/100 Port
- 1 – AXLink Connector

## NETLINX ENGINEERING

The NI-700 incorporates the same high-level of control engineered into the NetLinX Integrated Controller and NetLinX ME260 Card: Powerful built-in multi-port control. An easy-to-understand control architecture. Ultra-fast 304 MIPS processing engine. Intelligent and reliable networking. Robust 32 MB memory plus 16 MB Flash Disk.

## THE FORM FACTOR

It's compact size makes the NI-700 a perfect fit in virtually any space – out of sight behind a projection screen, hidden under a table, inside a podium or desk, or perhaps tucked away in a 1U rack mount with up to two other AMX devices. The NI-700 takes up only a fraction of the rack space, measuring 5.5" in width, 5.5" in depth and 1.5" in height.

## PRECISE REQUIREMENTS

As a scaled down, more portable version of the NI-2000 solution, the NI-700 offers a competitive solution with the capability to control various devices in a single room environment. VCR and DVD players, projectors, lights, thermostats and other equipment commonly used in commercial and residential settings, such as:

- Meeting Rooms / Conference Rooms / Boardrooms
- Classrooms / Training Facilities
- Hotel Guest Rooms
- Retail Kiosks
- Home Theaters

## STANDARDS BASED

Supporting AMX's commitment to standards-based networking, the NI-700 has the ability to simultaneously communicate over standards-based Ethernet-driven networks and the AXLink databus.



# NI-700

## NI-700 (FG2105-03)

### Power

- 280 mA @ 12 VDC

### Weight

- 1.30 lbs (0.59 kg)

### Memory

- 32MB SDRAM
- 16MB Compact Flash
- 512 Kb of Non-volatile SRAM

### Dimensions (HWD)

- 1.58" x 5.54" x 5.12" (4.01 cm x 14.10 cm x 13.00 cm)
- 1 rack unit high

### Enclosures

- Metal with black matte finish

### Front Panel

- Program Port: RS-232 DB9 connector (male) can be connected to a DB9 port on a PC. This port can be used with both Serial and NetLinX commands.
- Configuration DIP Switch: Use this DIP switch to set the communication parameters for the Program port.
- IR RX LED: Red LED lights to indicate when IR data is being received via the rear IR RX port.
- IR LED: Red LED lights to indicate transmission of IR or Serial data via the rear IR port.
- I/O LEDs: Four yellow LEDs light when the rear I/O channels 1-4 are active. LED indicator for each I/O port reflects the state of that particular port.
- Serial LEDs: Two sets of red and yellow LEDs light to indicate the rear DB9 Ports 1 & 2 are transmitting or receiving RS-232, 422, or 485 data. These LEDs do not reflect changes in either the RTS or CTS when hardware handshaking is used.
- LINK/ACT: Green LED lights when the Ethernet cable is connected and an active link is established. This LED also blinks when receiving Ethernet data packets.
- Status: Green LED lights to indicate that the system is programmed and communicating properly.
- Output: Red LED lights when the Controller transmits data, sets channels On and Off, sends data strings, etc.
- Input: Yellow LED lights when the Controller receives data from button pushes, strings, commands, channel levels, etc.
- ID Pushbutton: Sets the NetLinX ID (Device only) assignment for the device.

### Rear Panel

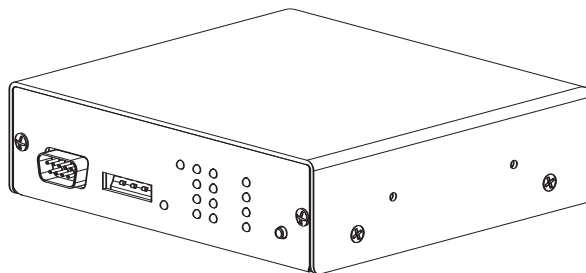
- RS-232/422/485 (Ports 1 & 2): Two RS-232/422/485 control ports using DB9 (male) connectors with XON/XOFF (transmit on/transmit off), CTS/RTS (clear to send/ready to send), and 300-115,200 baud.
- IR RX (Port 5): This port is used to connect one or more (8 maximum) IRX-SM+ swivel mount or IRX-DM+ Decora mount IR receivers.
- Digital I/O (Port 4): Four-channel binary I/O port for contact closure with each input being capable of voltage sensing. Input format is software selectable with interactive power sensing for IR ports.
- IR/Serial (Port 3): This single port is capable of generating IR with the use of an IR emitter (while in IR mode). This port can support high-frequency carriers of up to 1.142 MHz and can also generate IR with no carrier frequency.
- AXlink LED: One green LED indicates the state of the AXlink port.
- AXlink port: 4-pin 3.5 mm mini-Phoenix (male) connector provides data and power to external control devices.
- Ethernet port: LEDs show communication activity, connections, speeds, and mode information: L/A-link/activity - Green LED lights On when the Ethernet cables are connected and terminated correctly and blinks when receiving Ethernet data packets. SPD-speed - Yellow LED lights On when the connection speed is 100 Mbps and turns Off when the speed is 10 Mbps.
- Power port: 2-pin 3.5 mm mini-Phoenix (male) connector.

### Included Accessories

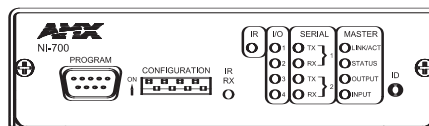
- NI-700 Quick Start Guide (93-2105-03)
- One 6-pin 3.5 mm mini-Phoenix female I/O connector (41-5063)
- One 4-pin 3.5 mm mini-Phoenix female AXlink connector (41-5047)
- One 2-pin 3.5 mm mini-Phoenix female PWR connector (41-5025)
- One CC-NIRC IR Emitter (FG10-000-11)
- OpenSSL Warranty and Licensing Information (93-2105-05)

### Optional Accessories

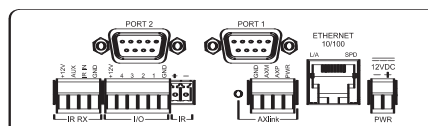
- 2-pin Black Male Phoenix Connector (3.5mm) (41-5026)
- AC-RK Accessory Rack Kit (FG515)
- CC-NIRC IR cables (FG10-000-11)
- CC-NSER IR/Serial cables (FG10-007-10)
- CSB Cable Support Bracket (FG517)
- PSN2.8: Power supply (FG423-17)
- PSN4.4: Power supply (FG423-45)
- PSN6.5: Power supply (FG423-41)
- STS, Serial To Screw Terminal (FG959)
- Surface Mount Bracket Accessory (FG525)



NI-700 (side view)



NI-700 (front view)



NI-700 (rear view)



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