



April 6, 2005

DN-0597 • D-150

# NIB-96 Network Interface Board

Section: Annunciator Control Systems

## GENERAL

The Network Interface Board (NIB) is a microprocessor-controlled module that connects "slave" Fire Alarm Control Panels (FACP) to a "master" control panel. The master control panel is an AM2020 or AFP1010. The slave panels can be a mix of AM2020, AFP1010, AFC-600, AFP-400, AFP-300, AFP-200, System 5000, and/or System 500 control panels. One or more NIB-96 modules are physically located in each slave FACP. Several slave panels can be monitored and controlled by a single master.

## NIB-96 FEATURES

- Very flexible. Several different NOTIFIER panels may be linked together in many combinations.
- No change to master or slave panel software, all basic features of panels are retained.
- Fully UL listed, using listed control panels.
- Up to 10,000 feet (3.048 km) between panels, using one shielded twisted pair of wires; 12,500 feet (3.6576 km) with LIB-200A/400.
- Tee-tapping of wiring allowed (Style 4).
- Style 6 or 7 options.
- Networked panels may share loop with individual intelligent devices.
- True network control-by-event. An event in one slave panel may cause action in any other control panel.
- May operate as "central station" network, where all control is done by slave panels, and a master panel monitors system status. If master panel fails, slave panels continue to function.
- Supports networked voice systems, with central or distributed AMGs.
- AIM or AFP1010 slave may "zone" (concentrate) many devices into one network point.
- Each NIB may report as few as 8 points, or as many as 96 on one SLC loop.
- Up to four NIBs may be installed in one AIM or AFP1010 to report up to 384 points from one slave panel.
- Small physical size, easy to install.
- Optically isolated circuitry, full transient protection.
- Plug-in terminal blocks.

## EXTRA FEATURES when used with a Master AM2020 or Master AFP1010

- Up to 10 LIB-200s can be installed in a master AM2020.
- Each LIB-200 can support a maximum of 12 NIB-96 boards (@ 8 points each) on a maximum of 96 NIB points.

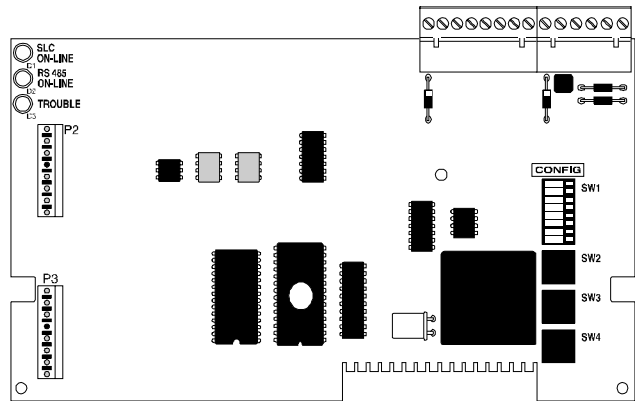


California State Fire Marshal

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7170-0028:153  
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**MEA**  
17-96-E  
289-91-E  
290-91-E  
291-91-E  
447-99-E



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## SPECIFICATIONS

**Physical size:** 4.4" (11.176 cm) x 8" (20.320 cm).

### Terminal screw connections:

- 12 AWG (3.1 mm<sup>2</sup>) capacity.
- Plug-in terminal blocks.

### LED indicators:

- SLC On-Line (GREEN).
- EIA-485 On-Line (GREEN).
- Trouble (YELLOW).

### Switch selections:

- START ADDRESS: 2-digit, decimal.
- Size: 1-digit, decimal.
- Options: 8-position dipswitch.

### Interface connections:

- Master SLC.
- Slave EIA-485.
- MPS power (cable included).

### Power required (24 V):

- Standby: 22 mA.
- Alarm: 22 mA.

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This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact NOTIFIER. Phone: (203) 484-7161 FAX: (203) 484-7118



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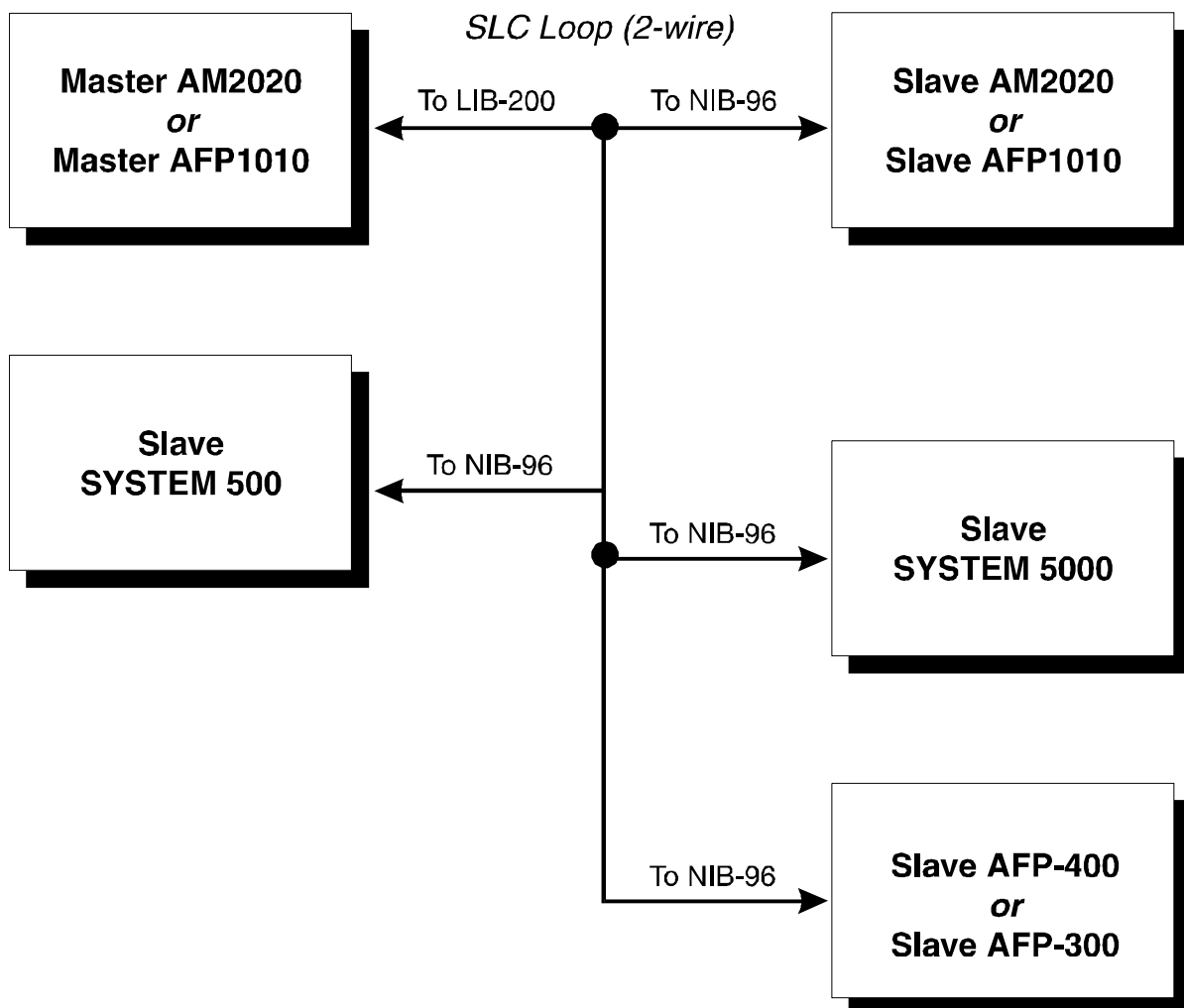
Made in the U.S.A.

## OPERATION

The NIB has two serial interfaces. To the master, it communicates with the SLC interface loop, emulating a group of monitor and control modules (up to 96). To the slave panel, it communicates over the EIA-485 annunciator interface and emulates one or two ACS annunciators (up to 128 LED points, of which only 96 may be used). With the NIB at the maximum (96 point) configuration, each master SLC loop may only support one slave FACP. With the NIBs configured for minimum size (8 points), 12 slave FACP's could be supported by one SLC loop. Note that the master panel can control additional slaves by installing more SLC loops (more LIB-200s). The capacity of a 10-loop master panel is 960 total slave points. Four points must be subtracted from each slave FACP for CPU functions (acknowledge, silence, and reset).

For limited applications, the NIB-96 may also be used to network System 5000 or System 500 panels to a master System 5000. The master System 5000 must include an AIM-200 module.

## NETWORK CONFIGURATION EXAMPLE



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