



Max 3 Modem Module (M3M) Installation Instructions

For Use with Max 3 and MiniMax 3 Systems

Note: This product is designed to be used by security and lock industry professionals.

Specifications/Requirements:

Mechanical:

2.90" W x 3.45" L x 0.81" D

Environmental:

Environment: Indoor Only.

Temperature Tolerance: 32° F to 120° F (0° – 49°C)

Communication Speed

Baud Rate: 19.2kbps

Electrical:

Operating Voltage: 12VDC

(Power from Max 3 Door Control Module)

Current Draw: 75mA

Software Compatibility:

Hub Manager Professional version 7.4 (or higher)

Description

The Max 3 modem module is used for dial up remote site management applications. The modem is designed for easy plug-on installation to Max 3 Door Control Modules for Max 3 and MiniMax 3 systems. The following sections discuss the system requirements, installation and wiring.

Software Compatibility

The Max 3 Modem is compatible with Hub Manager Professional Version 7.4 (or higher). You can also download the latest version of Hub Manager Professional software at www.nortekcontrol.com.

Technical Support

DEALERS/INSTALLERS ONLY! End users must contact the dealer/installer for support. If the unit still does not work after troubleshooting, please call the Technical Services department at 1-800-421-1587.

Packing List

- (1) Max 3 Modem Module
- (1) Installation Instructions
- (1) RS-485 Wire Harness (green, blue and gray)
- (1) Power Wire Harness (red and black)
- (1) Ground Wire (black)
- (3) 3/4" Metal Standoffs for Mounting
- (1) Hub Manager Professional Software CD
- (1) 6-Foot Cord
- (1) External RJ-11 Jack

FCC Statement

15.21 Information to User

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Limited Warranty

This Nortek Security & Control product is warranted against defects in material and workmanship for twenty four (24) months. **This warranty extends only to wholesale customers** who buy direct from Nortek Security & Control or through Nortek Security & Control's normal distribution channels. **Nortek Security & Control does not warrant this product to consumers.** Consumers should inquire from their selling dealer as to the nature of the dealer's warranty, if any. **There are no obligations or liabilities on the part of Nortek Security & Control LLC for consequential damages arising out of or in connection with use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation, or re-installation.** All implied warranties, including implied warranties for merchantability and implied warranties for fitness, are valid only until the warranty expires. **This Nortek Security & Control LLC Warranty is in lieu of all other warranties express or implied.**

All products returned for warranty service require a Return Authorization Number (RA#). Contact Returns at 1-855-546-3351 for an RA# and other important details.

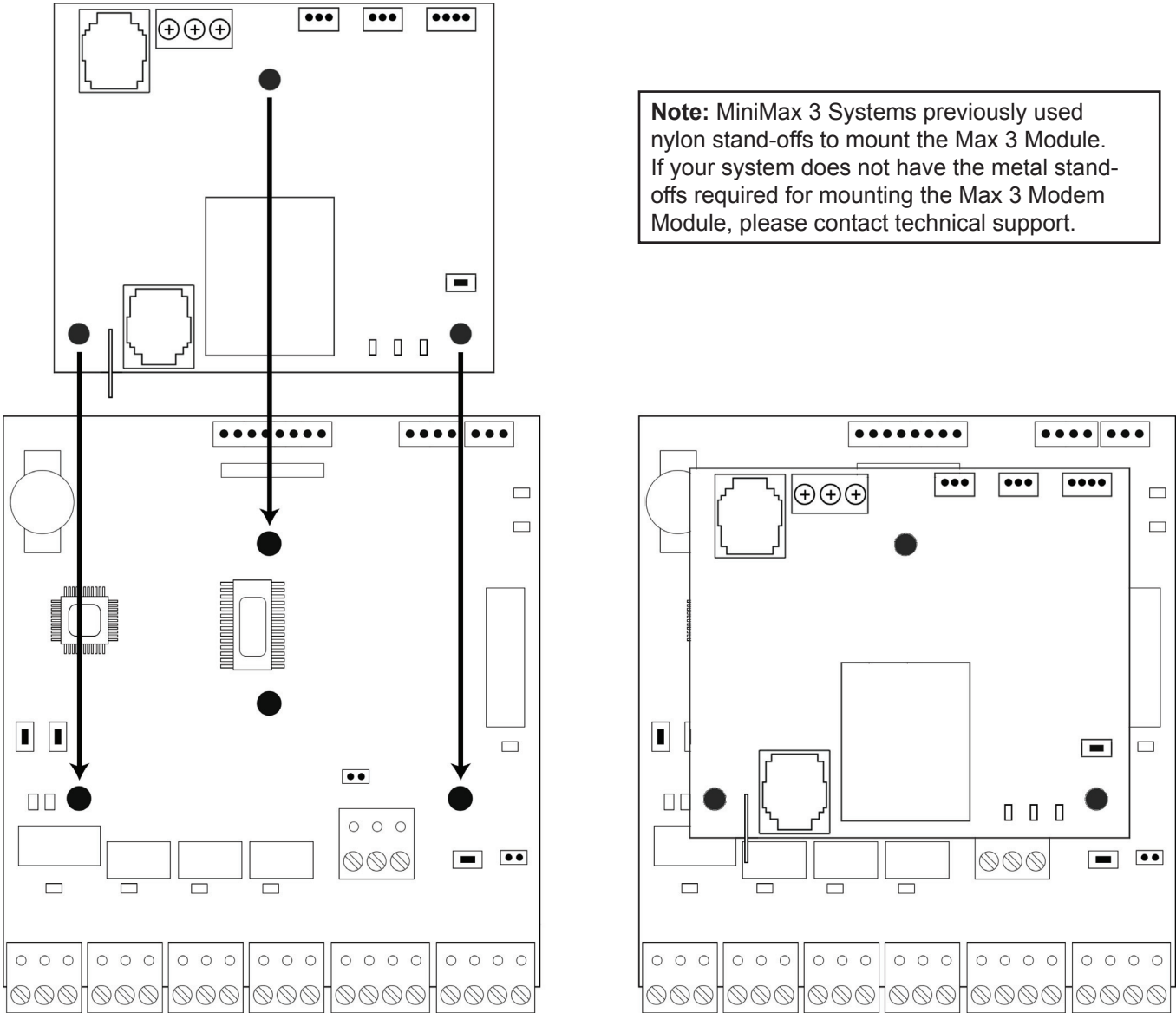
Mounting the Max 3 Modem Module

The Max 3 Modem is designed to mount on top of the first module in the system. Follow the instructions and the diagram below to mount and wire the Max 3 Modem.

- 1. Turn off power to the first Max 3 Module by placing SW1 on the backplane into the OFF position.
- 2. Remove the programming keypad (if installed) from the first Max 3 Module in the system.
- 3. Remove the three 1/2" stand-offs used to secure the Max 3 Module, then thread the three 3/4" stand-offs supplied with the Max 3 Modem onto the threaded posts supporting the Max 3 Module to increase the height off the module.
- 4. Place the Max 3 Modem onto the three stand-offs.
- 5. Secure the Max 3 Modem using the 1/2" stand-offs removed in Step 1.

Caution: Do not turn power back on until after you have completed wiring the Max 3 Modem Module.

Note: MiniMax 3 Systems previously used nylon stand-offs to mount the Max 3 Module. If your system does not have the metal stand-offs required for mounting the Max 3 Modem Module, please contact technical support.

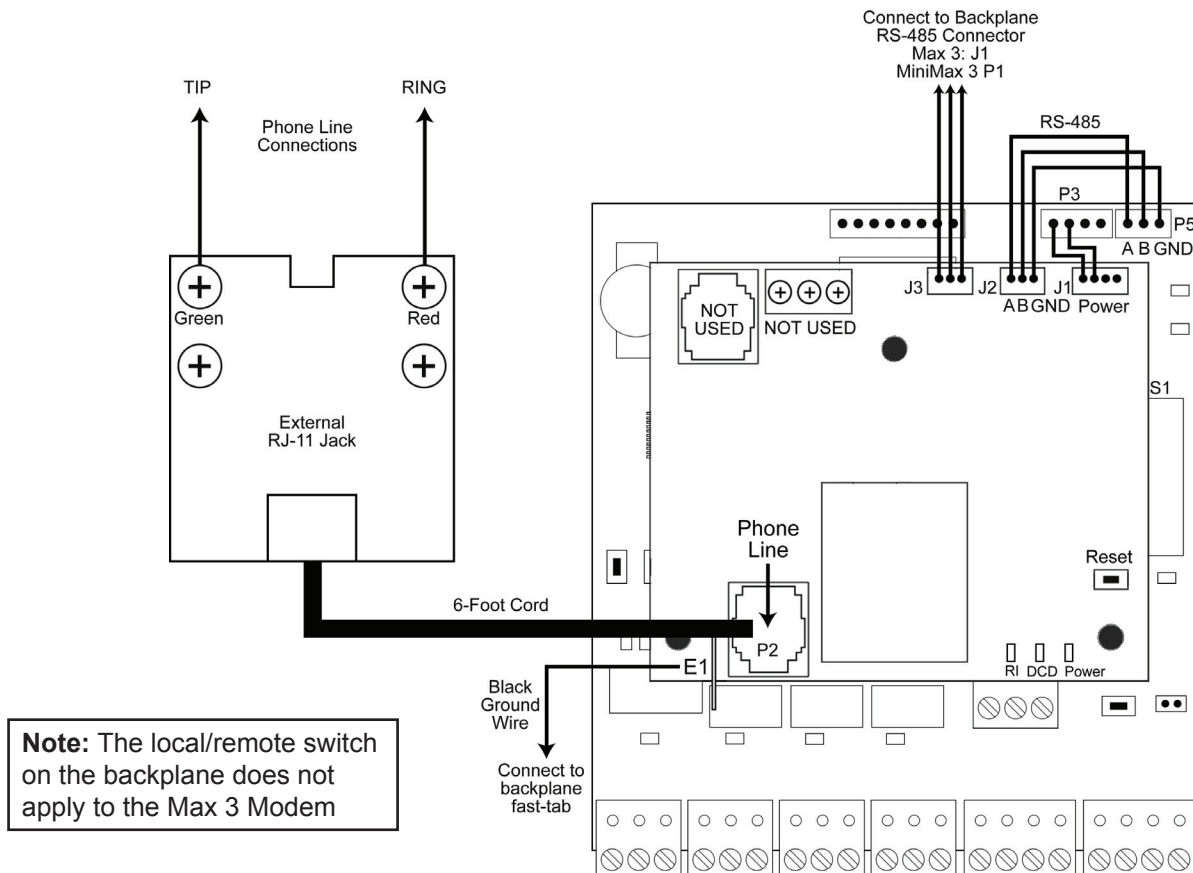


Wiring the Max 3 Modem Module

Follow the instructions below for wiring a Max 3 Modem Module to a new Max 3 or MiniMax 3 System

Caution: Power must be off prior wiring the Max 3 Modem Module.

1. Connect RS-485
 - Connect J2 on the Max 3 Modem to P5 on the Max 3 Module, using the three-position wire harness (green, blue, gray), that is provided with your Max 3 System.
 - Connect J3 on the Max 3 Modem to the backplane (J1 on a Max 3 OR P1 on a MiniMax 3), using the three-position wire harness (green, blue, gray), that is provided with your Max 3 Modem Module.
2. Connect Power
 - Connect J1 on the Max 3 Modem to P3 on the Max 3 Module using the red and black wire harness that is provided with your Max 3 Modem Module.
3. Connect Earth Ground
 - Plug the black ground wire onto the fast-tab E1 on the Modem, then connect it to the fast-tab on the backplane (TAB1 on MiniMax 3 OR FT1 on Max 3). **Note:** This is the same fast-tab used for your front-end shield.
4. Connect the Phone Line
 - Wire the TIP and RING lines from your phone line to the external RJ-11 Jack provided with the Max 3 Modem. TIP goes to the GREEN wire and RING goes to the RED wire. **Note:** If you already have a phone jack near your Max 3 System, this step may not be required.
 - Plug the 6-Foot Cord provided with the Max 3 Modem into the external RJ-11 jack (or existing phone jack), then into the RJ-11 jack on the Modem labeled PHONE LINE (P2).
5. Turn on power to the first Max 3 Module by placing SW1 on the backplane into the ON position.



Converting a Serial Connected Max 3 System to a Modem Connection

Follow the instructions below to convert a serial connected Max 3 system to a modem connection. Refer to the diagram on the previous page.

Caution: Power must be off prior wiring the Max 3 Modem Module.

1. Connect RS-485
 - Disconnect your USB to Serial Converter OR RS-232 to RS-485 Converter from TS3 on the backplane.
 - Disconnect the three-position wire harness (green, blue, gray) from P5 on the Max 3 Module (leave the other end connected to the backplane).
 - Connect the three-position wire harness (green, blue, gray) from the backplane to J3 on the Max 3 Modem.
 - Connect J2 on the Max 3 Modem to P5 on the Max 3 Module using the three-position wire harness (green, blue, gray) that is provided with your Max 3 Modem Module.

2. Connect Power
 - Connect J1 on the Max 3 Modem to P3 on the Max 3 Module using the red and black wire harness that is provided with your Max 3 Modem Module..

3. Connect Earth Ground
 - Plug the black ground wire onto the fast-tab E1 on the Modem, then connect it to the fast-tab on the backplane (TAB1 on MiniMax 3 OR FT1 on Max 3). **Note:** This is the same fast-tab used for your front-end shield.

4. Connect the Phone Line
 - Wire the TIP and RING lines from your phone line to the external RJ-11 Jack provided with the Max 3 Modem. TIP goes to the GREEN wire and RING goes to the RED wire. **Note:** If you already have a phone jack near your Max 3 System, this step may not be required.
 - Plug the 6-Foot Cord provided with the Max 3 Modem into the external RJ-11 jack (or existing phone jack), then into the RJ-11 jack on the Modem labeled PHONE LINE (P2).

5. Turn on power to the first Max 3 Module by placing SW1 on the backplane into the ON position.

Modem LED Indications

The chart below describes the three LED indicators on the Max 3 Modem Module.

LED			Description	
LED	Label	Color	Function	Details
LED 1	RI	Red	Ring Indicator	Flashes when ringing; Off normally
LED 2	DCD	Red	Data Carrier Detect	Turns on solid when connection; Off when disconnected.
LED 3	POWER	Green	Modem Power	Turns on solid when power turned on; Off when not powered.



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