



# Mircom TX3-IP-NP-256 Telephone Access System Module Installation Guide

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## Mircom TX3-IP-NP-256 Telephone Access System Module Installation Guide



### TX3-IP-NP-256 Installation

These instructions explain how to install the TX3-IP-NP-256 in the following TX3 units:

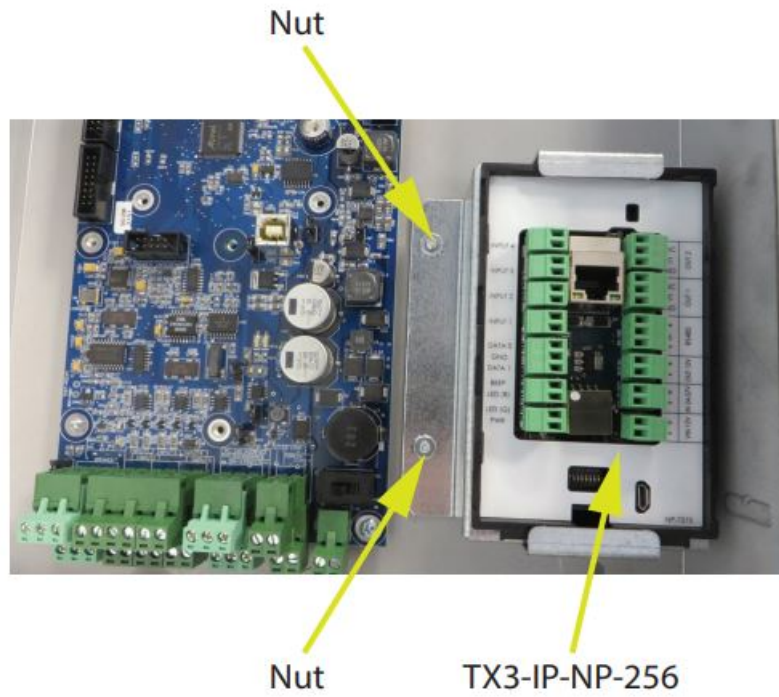
TX3-2000-8U-C-256  
TX3-2000-8C-C-256

#### A. Contents of Kit

- TX3-IP-NP-256
- 2 Nuts for attaching TX3-IP-NP-256 to the TX3 unit
- USB cable for programming TX3-IP-NP-256
- USB flash containing TX3 software and manuals

#### B. Mount TX3-IP-NP-256

1. Mount TX3-IP-NP-256 on the two posts as shown in Figure 1.
2. Secure it with the provided nuts.



**Figure 1 Mount TX3-IP-NP-256**

### C. Wiring

**WARNING: Disconnect the power before wiring.**

- RS-485 wiring maximum total length: 1219.2 m (4000 ft)
- PoE maximum length: 100 m (328 ft)

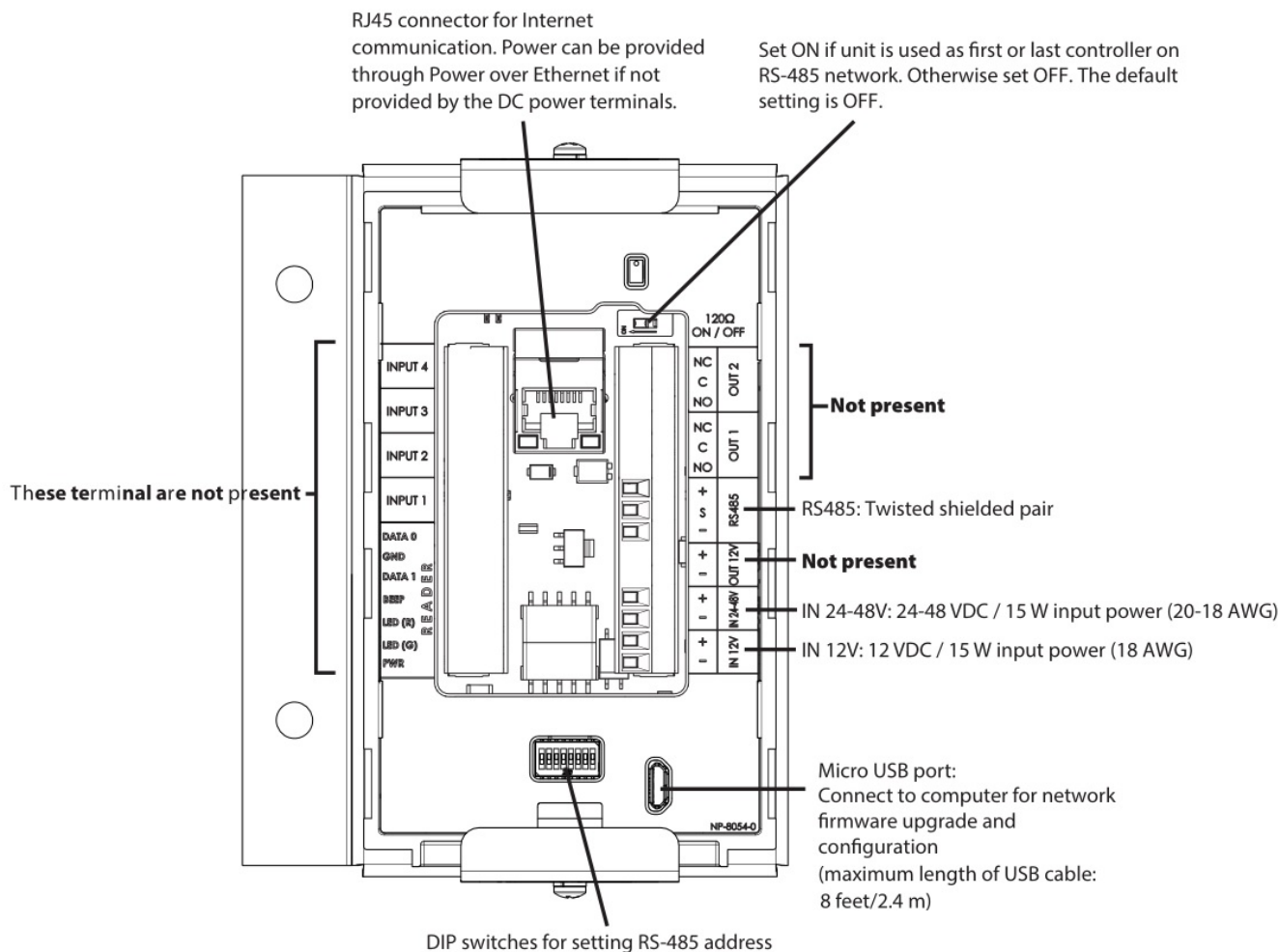


Figure 2 Wiring TX3-IP-NP-256

#### D. DIP Switch

- Use DIP switches 1-6 (shown in Figure 1) to set the RS-485 network address.



Figure 3 Set the RS-485 address

**Note:** You must set the RS-485 address even if you are not using RS-485.

- DIP switch 7: keep off.
- DIP switch 8: Set open (off) to get an IP address from the DHCP server, and set closed (on) to set a fixed IP address using the TX3 Configurator software. The default setting is off.

For more information and the complete list of RS-485 addresses, see LT-980, the TX3 Card Access System Manual, on the Mircom website ([www.mircom.com](http://www.mircom.com)) or the USB flash.

## E. RS-485

Connect the RS-485 input terminal to the RS-485 output terminal of another controller. See Figure 4.

Set the 120Ω switch ON (shown in Figure 2) if unit is used as first or last controller on RS-485 network. Otherwise set OFF. The default setting is OFF.

**Note:** Use twisted shielded pair.

Recommended cables:

- RS485 cables
  - Belden 3109A RS-485, (4 pr) 22 AWG (7×30) or equivalent
  - Belden 9842 RS-485, (2 pr) 24 AWG (7×32) or equivalent
  - Belden 9841 RS-485, (1 pr) 24 AWG (7×32) or equivalent
- CAT5 Cables
  - Belden 72001E ETHERNET Cat 5e 2 Pair, 24 AWG or equivalent
  - Belden 70006E Cat 5e, 100Mb/s, Quad, AWG 22 (1) or equivalent

Maximum total length:

- 4000 feet (1244 m) for 22 AWG
- 2500 feet (762.5 m) for 24 AWG

Optional common reference connection if available

Connect shield to one controller's chassis ground, which should then connect to building ground

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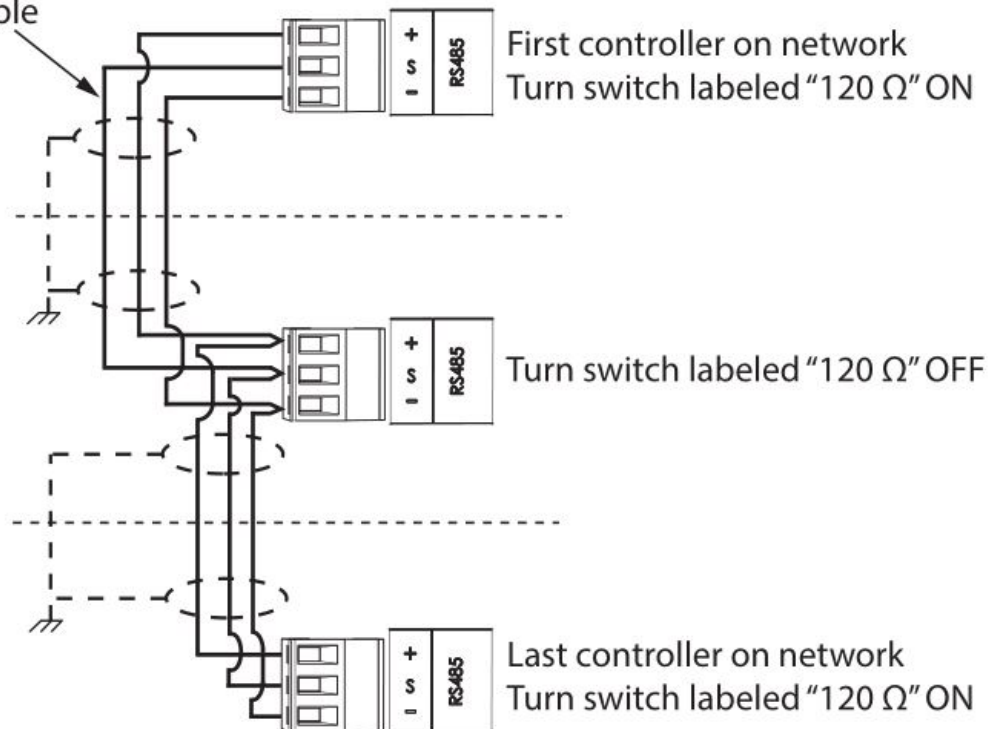


Figure 4 RS-485

## F. USB Port

The USB port provides a connection to a PC, for configuring the Card Access System and upgrading the firmware.

## G. Power

The Single Door Controller can be powered in three ways. Use only one of the power inputs.

- Power over Ethernet (PoE) – use Cat 5 cable
- 12 VDC/15 W – use 18 AWG
- 24-48 VDC/15 W – use 20-18 AWG

## H. Example Network Diagram

Use TX3-IP-NP-256 IP Gateway to connect TX3 devices to an Ethernet network. The IP Gateway is a bridge between RS-485 on the device side, and Ethernet on the network side.

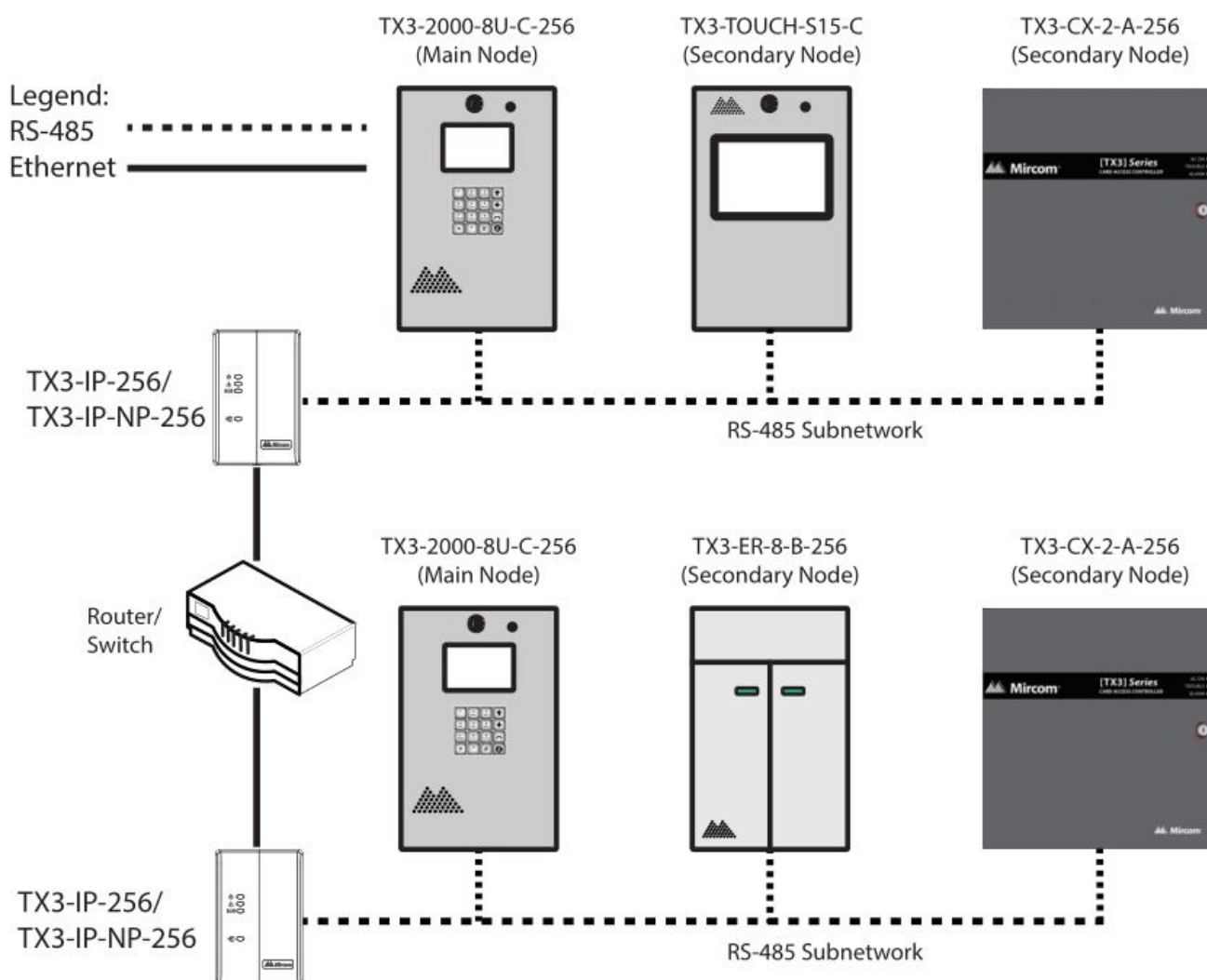


Figure 5. TX3 devices on a mixed network with TX3-IP-NP-256

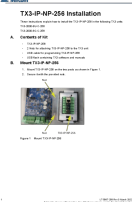
## Contents

### 1 Documents / Resources

#### 1.1 References

#### 2 Related Posts

## Documents / Resources

	<a href="#">Mircom TX3-IP-NP-256 Telephone Access System Module</a> [pdf] Installation Guide TX3-IP-NP-256, Telephone Access System Module
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## References

- [Mircom - Smart Buildings. Smarter Solutions.](#)