ADTRAN

# 841-t6 Service Delivery Gateway

**Wi-Fi Mesh Access Point / Remote Gateway**

Quick Start

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## Overview

**WARNING!**

*Read all warning, cautions, notes and installation instructions before installing or servicing this equipment.*

**ATTENTION!**

*Lisez tous les avertissements et mises en garde avant l'installation de cet équipement ou la réalisation de toute opération de maintenance*

The ADTRAN® 841-t6 is a carrier-class Dual-Band Wi-Fi 5 Gigabit Ethernet router, built to deliver top-end Wi-Fi 5 performance, true gigabit routing throughput, and advanced service delivery capabilities. This quick start describes how to install ADTRAN's 841-t6 Service Delivery Gateway.

The 841-t6 WiFi Mesh Access Point / Remote Gateway is an indoor gateway delivering premium multi-Gigabit services.



*Figure 1* illustrates the front and back of the 841-t6 gateway.

**Figure 1. Front and Back of the 841-t6 Gateway**

**WARNING!**

WARNING indicates a hazard which, if not avoided, could result in death, injury or serious property damage.

**CAUTION!**

CAUTION indicates a hazard which, if not avoided, could result in service interruption, damage to the equipment, or minor property damage.

**NOTE**

NOTES inform the user of additional, but important, information or features.

### Features

The features of the 841-t6 gateway include the following:

- 1x Gigabit Ethernet (RJ-45) 2.5G WAN interface
- Subscriber interfaces
  - 1x Gigabit Ethernet (RJ-45) LAN interface
  - 1x USB 3.0 (Type A) Host port

## Installing the 841-t6 Gateway

The following are guidelines for basic installation of the 841-t6.

**NOTE**

*Refer to the national, state and local electrical codes for the requirements for power, grounding, wiring, and installation methods.*

**CAUTION!**

*The product is intended for indoor use only. Ethernet, POTS cables, and attached equipment are intended for use within the same building with equipotential bonding, and not intended to be placed in separate buildings or structures. Failure to deploy as described could result in permanent damage from lightning or other electrical events and voids the warranty. Furthermore, all connections from outside of the building, such as old POTS wiring, must be disconnected prior to use.*

### Package Contents

- ADTRAN's 841-t6 WiFi 5 Gigabit Router
- 12V DC power adapter

### Prior to Installation

Before installing the equipment, inspect the gateway. If damage has occurred during shipping, file a claim with the carrier, and then contact ADTRAN Customer Support. For more information, refer to the product warranty available online at https://adtran/wp_support_warranty.

### Required Tools

No special tools are required for installing the 841-t6 gateway.

### Mounting Options

There are two options to install the 841-t6: desktop and wall mount. Be sure to route and secure the fiber and cables in a manner that will prevent damage. These options are described below.

#### *Desktop Installation*

The 841-t6 can be placed on a desk or table. The following table shows the recommended minimum distance (in feet and meters) between the gateway and household appliances to reduce interference.

| Household Appliance | Recommended Minimum Distance (in feet and meters) |
|---|---|
| Microwave ovens | 30 feet / 9 meters |
| Baby monitor – analog | 20 feet / 6 meters |
| Baby monitor – digital | 40 feet / 12 meters |
| Cordless phone – analog | 20 feet / 6 meters |
| Cordless phone – digital | 30 feet / 9 meters |
| Bluetooth devices | 20 feet / 6 meters |
| ZigBee | 20 feet / 6 meters |

**WARNING!**

*Ensure that the 841-t6 does not come in contact with water or other liquids.*

**CAUTION!**

*Ensure that the 841-t6 is not located in direct sunlight or next to any thermal obstructions.*

*Wall Mount Installation*

The 841-t6 can be mounted on a wall. Wall Mount Kit (17600192F1) can be ordered for mounting the 841-t6. Instructions are provided in the related Quick Start Guide (617600192F1-13A).

## Connecting the 841-t6 Gateway

*Figure 2* illustrates the installation (connection) options for the 841-t6 gateway.


**Figure 2. 841-t6 Gateway Installation Options (placeholder)**

The following subscriber connections are available on the rear of the 841-t6:

- 1x Gigabit Ethernet (RJ-45 Connectors) – **LAN** port
- 1x Gigabit Ethernet port (RJ-45 Connector) - **2.5G WAN** port
- 1x USB 3.0 (Type A Connector) - SS port

To connect the subscriber Ethernet interfaces, refer to *Figure 2* and insert a Category 5E (or better) RJ-45 cable into the LAN port (labeled **LAN**) or the Gigabit Ethernet port (**2.5G WAN**) until there is an audible “click”.

## Connecting the Power Supply

1. Connect the end of the power adapter to the **Power** port on the rear panel of the gateway
2. Plug other end of the power adapter into the wall outlet.
3. Press the **On/Off** switch.
4. Confirm that the power is connected properly. The **Power** LED should be lit on the front of the gateway.

### Resetting the Gateway

A reset button is available if the 814-v6 needs to be rebooted. To reboot the 841-t6, press the **Reset** button on the rear panel of the gateway for **5 seconds** *or less*. To reset the device to custom defaults, press the **Reset** button for **5 seconds** *or more*.

## Understanding the Status LEDs

The LEDs on the back panel of the 814-v6 gateway enable you to monitor the device status. This section describes the four types of LEDs available on the 814-v6 gateway. See *Figure 1* for details.


**Figure 1. Status LEDs**

### 2.4GHz / 5GHz Status LEDs

The **2.4GHz** and **5GHz** (**1** & **2**) status LEDs indicate the state of the wireless connections on the gateway.

| LED | Color | State | Description |
|---|---|---|---|
| **2.4GHz / 5GHz-1 / 5GHz-2** | Green | On | Wi-Fi radio is UP. |
| | | Flashing | Wi-Fi radio is transferring data. |
| | None | Off | Wi-Fi connection is DOWN. |

### WPS Status LED

The **WPS** status LED indicates the status of WPS (Wi-Fi protected setup).

| LED | Color | State | Description |
|---|---|---|---|
| **WPS** | Green | On | WPS is enabled. |
| | | Flashing | WPS is passing traffic. |
| | None | Off | WPS is not active. |

## Product Specifications

### Electrical

- Power is provided by a 12V DC Power Adapter that is included with the 841-t6. The power adapter operates from a power source of 100 to 240V AC, 50 - 60 Hz. The nominal output is 12V DC +\–5% with a minimum current rating of 2.5 Amps, Amb. 40°C. For US and Canadian applications, a UL Listed limited power source (LPS) is required. For deployment outside of North America, an LPS specifically approved for that country, such as a CE Mark, is required.
- If a Class I adapter or switch is used to provided power, be sure that the power cord is firmly plugged into the socket and confirm the main earth connection.

Documentation for ADTRAN Network Solutions products is available for viewing and download directly from the ADTRAN Support Community website.
Go to: https://supportcommunity.adtran.com

ADTRAN offers training courses on our products, including customized training and courses taught at our facilities or at customer sites.
For inquiries, go to: http://adtran.com/training

Access additional safety information and product documentation using the QR code or website.

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