

ADTRAN

841-t6

# Mesh Extender/RG

Wi-Fi 6 Service Delivery Gateway



Wi-Fi 6



OpenSync™  
Enabled



Elegant  
Design



Zero-Touch



Low Power



Multi-Gigabit










Adaptive  
Mesh-Enabled

# ADTRAN 841-t6 Mesh Extender/RG Wi-Fi 6 Service Delivery Gateway

## Benefits

- Support more home device connections via tri-band radio implementation
- Supports multi-gigabit broadband connections wirelessly via Wi-Fi 6 technology, and tri-band radio support
- Supports multi-gigabit throughput for laptops and smartphones
- Rapid home installation
- Optimized for multiuser homes via OFDMA and MU-MIMO technology
- Supports whole home mesh Wi-Fi
- Remote service troubleshooting and home management via TR-069, TR-181 or OpenSync



-  Wi-Fi 6
-  Low Power
-  OpenSync Enabled
-  Multi-Gigabit
-  Elegant Design
-  Mesh-Enabled
-  Zero-Touch

## Overview

ADTRAN® is building a next-generation platform for smart home services with Wi-Fi 6. Service Delivery Gateways (SDGs) allow more devices to connect and stream simultaneously, without impacting speed or reliability. This is achieved by scheduling multiple streams at once and efficiently packing and scheduling data.

### The Solution

These ADTRAN mesh wireless devices act predominantly as whole home Wi-Fi extenders, but can also operate as wireless gateways, both supporting Wi-Fi 6 (802.11ax), the latest Wi-Fi standard with four times the data capacity to handle growing home networking needs.

### Enhanced Multiuser HDTV Quality over Wireless

These mesh wireless residential gateways include built-in tri-band 802.11ax radios. OFDMA and MU-MIMO to deliver wired-equivalent performance, supporting full 4K UHD video.

To take greater advantage of the Wi-Fi 6 multigigabit speeds, the Wi-Fi 6 variants of the ADTRAN SDGs support 2.5GE copper uplinks.

### Smarter, Consistent Whole Home Wi-Fi

ADTRAN mesh wireless devices increase capacity and effective throughput in the home by forming a smart, self-organizing, adaptable network. This ensures consistent coverage anywhere in the home, office, or in outdoor spaces.

### OpenSync Integrated.

ADTRAN mesh devices include OpenSync integration, a cloud-agnostic, open-source software for delivery, curation, and management of services for the smart home applications.

### A Better Look for Better Performance

The device location within the home is the most important indicator of Wi-Fi performance. Getting the best signal means not placing it in a corner closet or in a shelving unit behind a glass picture frame. The ADTRAN SDG-Series gateways and access points offer an elegant, modern design supported by multiple mounting options allowing them to blend into home décor.

# Product Specifications

## Ethernet Interfaces

- 1 x 2.5GBASE-T Ports with RJ-45 Connectors
- 1 x 10/100/1000BASE-T Ports with RJ-45 Connectors
- Ethernet Port Auto Negotiation or Manual Configuration
- MDI/MDI-X Automatic Sense

## Ethernet Services

- 802.1D Bridging
- 802.1x Authentication
- Virtual Switch Based on 802.1q VLAN
- VLAN Tagging/Untagging Per Ethernet Port
- VLAN Stacking (Q-in-Q) and VLAN Translation
- IP ToS/DSCP to 802.1p Mapping
- Quality of Service (QoS)
  - VLAN-ID
  - 802.1p Bit
  - DSCP to p Bit Translation
- Marking/Remarking of 802.1p
- IGMP v2/v3 Snooping
- Broadcast/Multicast Rate Limiting

## Gateway Features

- WAN Connection
  - Point-to-Point Protocol over Ethernet (PPPoE)
  - Dynamic Host Configuration Protocol (DHCP)
- DHCP Server for LAN Devices
- DNS Relay
- Network Address Translation (NAT)/ Network Address Port Translation (NAPT)
- Port Forwarding
- Static Routing
- Access Control List (ACL)
- VPN Pass Thru for Point to Point Tunneling Protocol (PPTP), Layer 2 Tunneling Protocol (L2TP) and IP Security Protocol (IPSec)
- Firewall
- Application Layer Gateway (ALG)
- Demilitarized Zone (DMZ)

- Dynamic Domain Name Server (DDNS)
- Network Time Protocol (NTP)
- Universal Plug and Play (uPnP)
- IGMP Proxy
- IPv6
  - Stateless Address Autoconfiguration (SLAAC)
  - DHCPv6
  - PPPoEv6
  - DNSv6

## WLAN Interface

- Compliant with IEEE 802.11 b/g/n/ac/ax
- 160Mhz channel
- Dynamic Frequency Selection
- Multi-region support
- 2.4 GHz and 5.0 GHz
  - Tri Band Radios
    - 2.4 GHz 2x2
    - 5.0 GHz 2x2
    - 5.0 GHz 4x4
- WPA3 Support
- Bluetooth 5.0
- Push Button WPS

## Dimensions

- 168 x 98 x 206mm (Height x Width (Base) x Depth)

## Power Supply

- +12V (Feed via External AC/DC Adapter)
- Power Consumption: Less than 30W

## Working Environment

- Temperature: 41° F – 104° F (5° C – 40° C)
- Humidity: 5% – 85% Relative Humidity

## Environmental Directive

- RoHS 6 of 6

# Product Specifications

## LEDs

- Multifunction RGBW
- 2.4GHz
- 5GHz
- 5GHz
- WPS
- Ethernet link/activity

## Safety and EMI

- CE Certificate
- FCC / Industry Canada Certified, UL Listed
- ETL Intertek Listed (UL 62368-1)
- CE/UKCA mark
- DFS certified
- ACMA/RCM compliant

## Ordering Information

Model	Region	Part No.
SDG 841-t6	North & Central America	17600030F1
	United Kingdom	17600030F2
	European Union	17600030F3
	Australia/New Zealand	17600030F4

## 617600030F1-8B

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**ADTRAN, Inc.**  
901 Explorer Boulevard  
Huntsville, AL 35806  
256 963 8000

**General Information**  
800 9ADTRAN  
[adtran.com/contactus](http://adtran.com/contactus)

**Canada—  
Montreal, Quebec**  
+1 877 923 8726  
+1 514 940 2888  
[sales.canada@adtran.com](mailto:sales.canada@adtran.com)

**Mexico and  
Central America**  
+1 52 55 5280 0265 Mexico  
[sales.cala@adtran.com](mailto:sales.cala@adtran.com)

