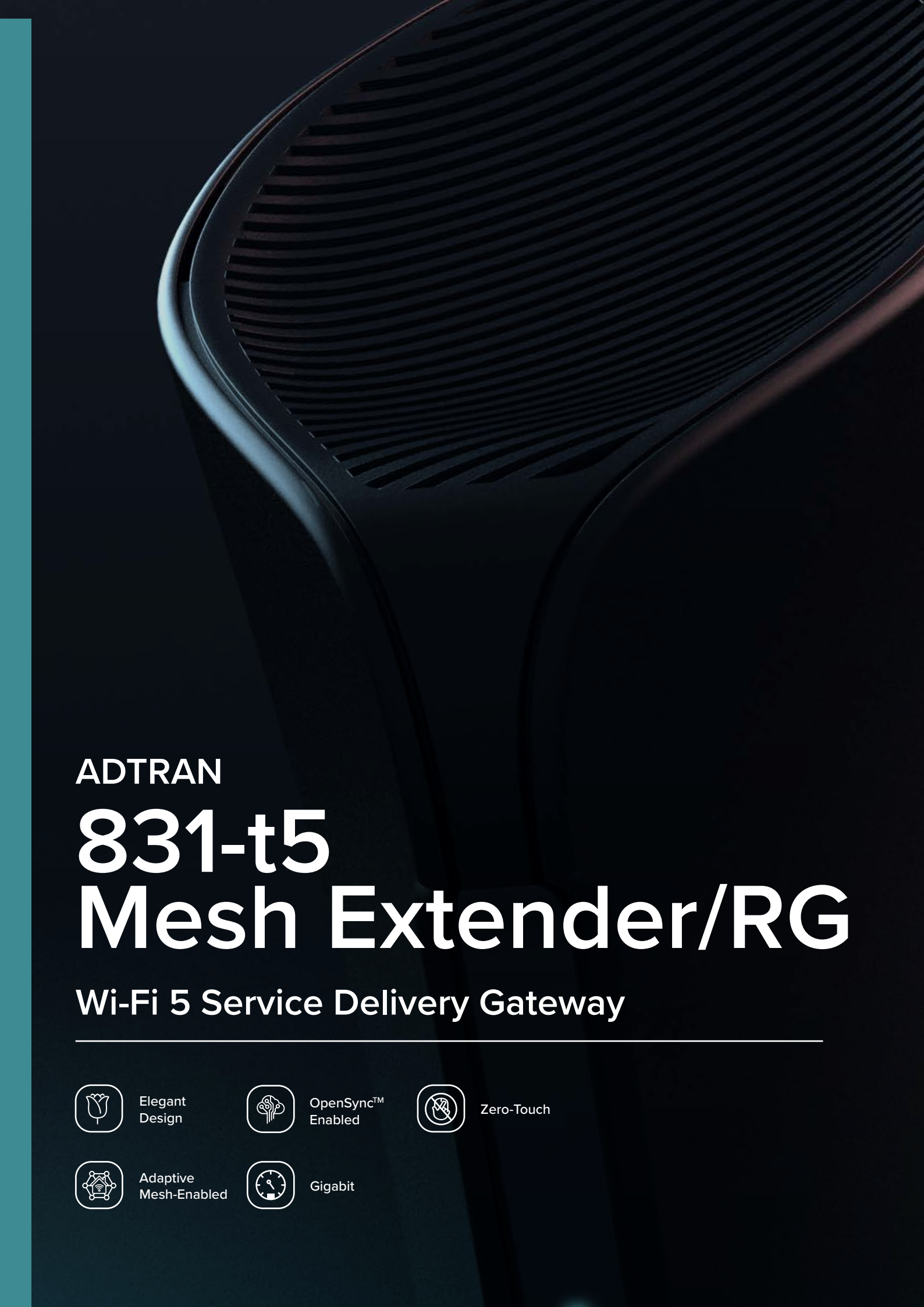

ADTRAN

831-t5 Mesh Extender/RG

Wi-Fi 5 Service Delivery Gateway

- Elegant Design
- OpenSync™ Enabled
- Zero-Touch
- Adaptive Mesh-Enabled
- Gigabit

ADTRAN 831-t5 Mesh Extender/RG

Wi-Fi 5 Service Delivery Gateway

Benefits

- Supports more home device connections via its tri-band radio implementation
- Supports multi-gigabit broadband connections wirelessly via Wi-Fi 5 technology and tri-band radio support
- Rapid home installation
- Remote service troubleshooting and home management via TR-069/TR-181 or OpenSync™
- Optimised for multiuser homes via MU-MIMO technology
- Supports gigabit copper wired uplink
- Supports both IPTV and OTT 4K video
- Supports whole home mesh Wi-Fi

Elegant Design

Adaptive Mesh-Enabled

OpenSync Enabled

Gigabit

Zero-Touch

Overview

ADTRAN® is building a next-generation platform for smart home services with Wi-Fi 5. 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 mesh wireless devices act predominantly as Whole Home Wi-Fi extenders, but can also operate as wireless gateways.

Enhanced Multiuser HDTV Quality over Wireless

These gateways include two built-in, 802.11ac radios. The tri-band radio implementation comes with MU-MIMO to deliver wired-equivalent performance, supporting full 4K UHD video.

To take greater advantage of Wi-Fi 5 multigigabit speeds, Wi-Fi 5 variants of ADTRAN Service Delivery Gateways support gigabit Ethernet 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-organising adaptable network. This ensures consistent coverage throughout the home, office, or 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.

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 enabling them to blend into a home's décor.

Product Specifications

Ethernet Interfaces

- 1 x 1GBASE-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/Detagging 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)
- Demilitarised 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
- 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

LEDs

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

Product Specifications

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 831-t5	North & Central America	17600031F1
	United Kingdom	17600031F2
	European Union	17600031F3
	Australia/New Zealand	17600031F4

1617600031F1-8B

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