

SDG 800 Series

Adtran

Data Sheet

854-v6

Dual-Band Wi-Fi 6 Mesh Ethernet Gateway 2.5GE Port and Voice Support

Benefits

- True Multi-Gigabit Wi-Fi 6 Ethernet Gateway Delivering Up to 3.6 Gbit/s Capacity
- High-Performance Dual-Band Mesh Wi-Fi for Coverage Across the Home and Property
- 4x4 Simultaneous Streams with MU-MIMO for Lag Free Gaming and 4K Streaming
- H-Pol Omni Antennas Delivering 360 Coverage
- Al-Driven, Mesh Wi-Fi Delivering Consistent, High-Performance Connectivity to All Users and Devices
- Integrated Voice Ports for VoIP Services

Overview

The 854-v6 Wi-Fi 6 Service Delivery Gateway (SDG) is a carrier-class, 802.11ax Ethernet residential gateway with Dual-band Mesh, 2.5GbE WAN Port, and integrated voice ports. It is built to extend fiber and multi-gigabit performance for buffer-free 4K/8K streaming and gaming, connect 100s of smart home devices and deliver consistent coverage across the home or business. The Adtran 854-v6 is part of Adtran's next-generation 800 series Ethernet Gateways and Mesh Satellites that enable a consistent multi-user, multigigabit experience across the home and property – enabling a transformational Wi-Fi experience.

Smarter, Consistent Whole Home Wi-Fi

The Adtran 854-v6 Dual-Band SDG is a true multi-gigabit Ethernet gateway delivering up to 3.6 Gbit/s aggregate throughput for access and backhaul. The SDG 854-v6 includes two integrated voice ports to support VoIP services. Combined with innovative H-PoI Omni antennas, the 854-v6 SDG delivers 360° coverage anywhere in the home, office, or outdoor spaces.

Carrier-Class Features

The Adtran 854-v6 is designed for service providers that require carrier-class performance, reliability, and firmware flexibility in their broadband access gateways. Native support for IPv6, multicast traffic handling for IPTV, dynamic Quality of Service (QoS), and FCC Speed Test are standard features. Out-of-thebox, the Adtran 854-v6 SDG offers outstanding interoperability with industryleading TR-069 remote management systems. The 854-v6 includes a 2.5GbE WAN interface delivering multi-gigabit wired and wireless throughput.

Speed to Burn and Room to Grow

The 854-v6 boasts a Multi-core ARM® Cortex processor with the power to route IPv4/v6 traffic up to 3.6Gbps bi-directionally, with plenty of processing power left over for valueadded applications, giving service providers unlimited feature, pricing, and service delivery options.

Performance Personified

Getting the best Wi-Fi does not mean placing it in a corner closet or a shelving unit behind a glass picture frame. The Adtran 800 series SDGs offer an innovative space-age design that looks great on the desk or shelf while delivering an exceptional Wi-Fi experience to all users and devices.

Product Specifications

Ethernet Interfaces

- 1 x 2.5GBASE-T Ports with RJ-45 Connectors
- 4 x 10/100/1000BASE-T Ports with RJ-45 Connectors
- 1 x 2.5GE SFP Port
- Ethernet Port Auto-Negotiation or Manual Configuration (Software Dependent)
- MDI/MDI-X Automatic Sensing
- 2 x RJ-11 Voice Ports

Gateway Features

- Multiple WAN Services
 - 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

Voice Interfaces

- 3-REN, 50V RMS
- RFC 3261 SIPv2
- Full CLASS Feature Set
- ANSI and ETSI POTS
- T.38 Facsimile
- Configurable Dial Plan
- Configurable Country Specific Ring-Back Tones (Frequency and Cadence)

WLAN Interface

- Compliant with IEEE 802.11 b/g/n/ac/ax
- Dynamic Frequency Selection
- Multi-Region Support
- 2.4 GHz and 5.0 GHz
- Dual-Band Radios
- 2.4 GHz 4x4
- 5.0 GHz 4x4
- WPA3 Support
- Bluetooth 5.0
- Push Button WPS

USB Interface

- 1 USB Host Interface
- Compliant to USB 3.0

Dimensions

- 9.8 in x 3.5 in x 7.7 in
- (249 mm x 90 mm x 195 mm) (H x W x D)
- Weight: 2.6 lbs (1176 gm)

Power Supply

- External AC/DC power adapter
- AC Input: 100~240 VAC @ 50/60Hz

Working Environment

- Temperature: 41° F 104° F (5° C 40° C)
- Humidity: 5% 85% Relative Humidity
- LEDs
- Multifunction RGBW
- 2 4GHz
- 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
- RoHS 6 of 6

Equipment	Region	Part Number
SDG 854-v6	North & Central America	17600028FIS
	United Kingdom	17600028F2S
	European Union	17600028F3S
	Australia/New Zealand	17600028F4S
Supported SFPs / ONTs		Part Number
SDX610 IGbit/s GPON ONT (used with Adtran OLTs)		1442535F3
SDX630 10Gbit/s XGSPON ONT (used with Adtran OLTs)		1287940F1
1G P2P Ethernet SFP up to 10km (used with Adtran OLT-SFP 1442110G1)		1442110G2
1G P2P Ethernet SFP up to 40km (used with Adtran OLT-SFP 1442140G1)		1442140G2



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