Adtran

Data Sheet

SDG 800 Series

834-v6

Wi-Fi 6 Ethernet RG

OpenSync™ Enabled | Zero-Touch | Adaptive Mesh-Enabled | Gigabit | VoIP

Benefits

- **Extends Multi-Gigabit Connectivity via Wi-Fi 6 Technology**
- **High-Performance, Dual-Band Mesh for Coverage Across the Home and Property**
- **4x4 Simultaneous Streams with MU-MIMO for Lag-Free Gaming and 4K Streaming**
- **H-Pol Omni Antennas Reduce RF Interference Delivering 360° Coverage**
- **"Zero-touch" Self-Install and Management via an Intuitive App**
- **AI-Drive Adaptive Mesh That Delivers Consistent, High-Performance Connectivity to All Users and Devices**
- **OpenSync-Enabled, Unlocking Service Innovation**

Overview

The Adtran 834-v6 dual-band Wi-Fi 6 Service Delivery Gateway (SDG) provides multi-gigabit wireless throughput, enabling more users and devices to connect and stream simultaneously. The Adtran 834-v6 delivers never-before-seen wireless speeds and whole-home coverage, even in periods of heavy network use.

The Solution

The Adtran 834-v6 is designed for service providers that require carrier-class performance, reliability, and firmware flexibility in a broadband access gateway. Native support for IPv6, multicast traffic handling for IPTV, dynamic Quality of Service (QoS), and TR-069 remote management are standard features. The Adtran 834-v6 offers out-of-the-box OpenSync™ integration, providing a platform for new revenue-generating services.

The OFDMA Advantage

OFDMA can significantly reduce contention and preamble overhead, especially for the short packets prevalent in many networks. Both OFDMA and multiuser MIMO are used to parallelize control traffic wherever possible.

The SDG 834-v6 delivers a highly efficient Wi-Fi 6 network with low latency and jitter that improves overall QoS.

Speed to Burn and Room to Grow

The Adtran 834-v6 boasts a dual-core ARM® Cortex-A53 1.35GHz processor with the power to route IPv4/v6 traffic at 1Gbps bi-directionally, with plenty of processing power remaining for value-added applications, such as HomePass by Plume®. This gives service providers unlimited feature, price, and service delivery options.

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 on a shelving unit behind a glass picture frame. Adtran gateways and access points offer an elegant, modern design supported by multiple mounting options, enabling them to blend into a home's décor.

834-v6

Product Specifications

Ethernet Interfaces

- 4x 10/100/1000BASE-T LAN Ports with RJ-45 Connectors
- 1x 10/100/1000BASE-T WAN Port
- MDI/MDI-X Automatically Sense
- RJ-45 Ports with Integrated Link and Activity LEDs

Ethernet Services

- Symmetric 1 Gbps Throughput
- 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

- Multiple WAN Services
- DHCPv4/v6
- RFC2516 PPPoE
- PPPoE Pass-Through
- RFC5072 IPv6 over PPP
- DNS Proxy Server
- Dynamic DNS Client
- DHCP Server, Client, and Relay
- DHCP Options 60 and 121
- NAPT and NAT
- IGMPv2/v3 Proxy and Snooping
- LAN Port to VLAN Mapping
- Port Forwarding
- Universal Plug and Play (UPnP)
- Network Time Protocol (NTP)
- Firewall with Stateful Packet Inspection
- IPv6
  - Stateless Address Autoconfiguration (SLAAC)
  - DHCPv6
  - PPPoEv6
  - DNSv6
  - DS-Lite

WLAN Interface

- Compliant with IEEE 802.11 b/g/n/ac/ax
- Optional 160Mhz Channel (Future 2022)
- Dynamic Frequency Selection
- Multi-Region Support
- Dual Band Radios
  - 2.4 GHz 2x2
  - 5.0 GHz 2x2
- WPA3 Support
- Bluetooth 5.0
- Push Button WPS

USB Interface

- 1 USB Host Interface
- Compliant to USB 3.0

POTS Interface

- 2 RJ-11 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)

Dimensions

- 6.6 in x 3.9 in x 8.1 in (168 mm x 98 mm x 206 mm) (H x W x D)
- Weight: 1.3 lbs (584 gm)

Power Supply

- External AC/DC Power Adapter
  - AC Input: 100~240 VAC at 50/60Hz
  - DC Output: 12 VDC at 3.0A
- UL Listed

Working Environment

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

Safety and EMI

- FCC Certified
- Industry Canada Certified
- ETL Intertek Listed (UL 62368-1)
- ETSI Compliant
- CE Certificate
- ACMA/RCM Certified
- UKCA/CE Mark
- DFS Certified

Environmental Directive

- RoHS 6 of 6

Ordering Information

Equipment	Region	Part No.
SDG 834-v6	North & Central America	17600023F1
	United Kingdom	17600023F2
	European Union	17600023F3
	Australia/New Zealand	17600023F4

Adtran

Adtran Corporate Headquarters
901 Explorer Boulevard
Huntsville, AL 35806
USA
adtran.com
sales@adtran.com

Adtran Europe Limited
Building 2200 Basing View
Basingstoke RG-21 4EQ, UK
contact@adtran.com

Adtran GmbH
Jean-Monnet-Straße 4,
10557 Berlin, Germany
kontakt@adtran.com

Adtran Networks Pty. Limited
L5 330 Collins Street
Melbourne, Victoria, 3000
Australia
australia@adtran.com

617600022Fx-8F

May Copyright © 2022 Adtran, Inc. All rights reserved. Adtran believes the information in this publication to be accurate as of publication date, and is not responsible for error. Specifications subject to change without notice. Adtran and the other trademarks listed at www.adtran.com/trademarks are registered trademarks of Adtran, Inc. or its affiliates in various countries. All other trademarks mentioned in this document are the property of their respective owners.

Adtran warranty duration and entitlements vary by product and geography. For specific warranty information, visit www.adtran.com/warranty

Adtran products may be subject to U.S. export controls and other trade restrictions. Any export, re-export, or transfer of the products contrary to law is prohibited. For more information regarding exportation of Adtran items (e.g. commodities, technology, software), please visit www.adtran.com/exportlicense.

ADTRAN Certified Supplier
ISO 9001
ISO 14001
TL 9000

TL9000
TL.19.1270