



SDG 8732v

Wi-Fi 7 tri-band gateway with 2.5GbE WAN and LAN ports with voice

Benefits

- Multigigabit Wi-Fi 7 tri-band gateway
- Zero-touch install via intuitive mobile app
- High-performance tri-band mesh Wi-Fi with support for 6GHz band and 320MHz channels
- Multi-core ARM processor to power next-generation smart home applications
- Advanced antenna design ensures better rate-reach and coverage
- Open cloud-management support-Intellifi, TR-369, and TR-069

Overview

Adtran's 8700 Series Wi-Fi 7 Service Delivery Gateways (SDGs) build upon the successes of their predecessors, enabling multigigabit services and Extremely High Throughput (EHT) Wi-Fi 7, with better-than-ever, class-leading subscriber experience enhancements.

Multigigabit Wi-Fi 7 gateway

The SDG 8732v is a tri-band Wi-Fi 7 (802.11be) residential gateway with a 2.5GbE WAN port, 6GHz band and 320MHz channel support, making it ideal for multigigabit whole-home coverage to homes and small businesses. With a 2x2 radio in the 2.4GHz and two 3x3 radios in the 5GHz and 6GHz bands, the SDG 8732v works as a primary gateway or satellite, delivering up to 14Gbit/s of aggregate Wi-Fi bandwidth. Now, you can support hundreds of smart-home devices and bandwidth-intensive gaming, streaming, AR/VR, and remote working applications for multiple users in the home or business. The SDG 8732v supports multigigabit on the LAN with two 2.5GbE ports. The SDG 8732v also includes one voice port to offer ARPU-enhancing voice services.

Powerful yet power-efficient

The SDG 8700 Series features an advanced ARM multicore CPU, boasting 4x more processing power to support multiple 4K streams, low-latency gaming applications, and innovative revenue-boosting smart home apps. Intelligent power management, a 6nm processor, and the use of recyclable materials ensure a sustainable, environmentally friendly Wi-Fi solution. In addition, the elegant, compact design supports wall-mounting or placement on a desk, bookshelf, or tabletop to deliver exceptional Wi-Fi experiences to all users.

Open platforms unlock innovation.

The Adtran Residential Wi-Fi solutions, including 800, 8600 and 8700 Series SDGs, provide operators with a choice of market-leading open-source platforms. We support Intellifi, TR-369 and TR-069 cloud-management platforms.

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Product specifications

Network interfaces

- WAN
 - 1 x 2.5GbE port
- LAN
 - 2 x 2.5GbE port
- Voice
 - 1 x RJ-11 port

WLAN interfaces

- Compliant with IEEE 802.11b/g/n/ac/ax/be
- Tri-band radio configuration
 - 2.4GHz 2x2 up to 40MHz
 - 5GHz 3x3 up to 160MHz
 - 6GHz 3x3 up to 320MHz
- 3 x SSIDs per radio
- Integrated internal antenna array
- WPA3 support

Software features*

- Multiple WAN services
 - DHCPv4/v6
 - RFC2516 PPPoE
 - PPPoE pass-through
- 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
- DNSv6
- Mesh Wi-Fi features
 - IEEE 802.11 4-address (4mac) encapsulation
 - IEEE 802.11k Radio resource measurement
 - IEEE 802.11v Wireless network management
 - IEEE 802.11r Fast BSS transition
 - Zero-touch AP pairing
- Custom Default Themes (CDT)/Configurations
- Touchless Quality of Service (wired and Wi-Fi)
- AutoWAN
- TR-069/TR-369 Remote Management
- TR-181 Device Data Model

*Features depend on firmware load

Ethernet services

- Symmetric 2.5 Gbit/s Throughput
- 802.1D Bridging
- 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

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)

Console port

- Compatible with USB to TTL FDTI type serial adapters

Dimensions

- 7.5" x 5.7" x 2.9" (190mm x 144mm x 74mm) (H x W x D)

Operating environment

- 41° F – 104° F (5° C – 40° C)
- Humidity: 5% – 85% relative humidity

Safety and EMI

- FCC certified
- Industry Canada certified
- cULus Listed (UL 62368-1)
- ETSI compliant
- CE certificate
- UKCA certified
- ACMA/RCM certified

Environmental

- RoHS: Directive 2015/863/EU
- WEEE: Directive 2012/19/EU WEEE

Power supply unit

- External power adapter
- AC Input: 100-240V, 50/60Hz @ 1.0A
- DC Output: 15 VDC @ 3.0A
- Surge Protection: ITU-T K.21 Enhanced compliant

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Ordering information

Product	Description	Region	Wi-Fi country code	Part number
SDG 8732v	2.5G RG/AP SmartOS US	Americas	US	17600087FIS
	2.5G RG/AP PlumeOS US	Americas	US	17600087FIP
	2.5G RG/AP SmartOS Global	All regions	Global (US, UK, DE, AU)	17600087FGS
	2.5G RG/AP PlumeOS Global	All regions	Global (US, UK, DE, AU)	17600087FGP
	2.5G RG/AP CFA	All regions	Global (US, UK, DE, AU)	17600087FG

*Note: For additional part numbers or a custom quote, please contact sales@adtran.com.



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