



# SDG 8733A

Wi-Fi 7 tri-band mesh satellite with 10GbE WAN and 2.5GbE LAN Ports

## Benefits

- True 10 Gigabit 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 360° coverage
- Open cloud-management support - Intellifi or TR-069
- USB-C powered

## Overview

Adtran's 8700 Series Wi-Fi 7 Service Delivery Gateways (SDGs) build upon the successes of their predecessors, enabling 10 Gigabit services and Extremely High Throughput (EHT) Wi-Fi 7, with better than ever, class-leading subscriber experience enhancements.

### Carrier-Class 10 Gigabit gateway

The SDG 8733A is a carrier-class, tri-band Wi-Fi 7 (802.11be) residential gateway with a 10GbE WAN port and 2.5GbE LAN port, making it ideal for competitive 10Gbit/s services to homes and small businesses. With 10 radio streams across the 2.4GHz, 5GHz and 6GHz bands (2x2 + 3x3 + 3x3), the SDG 8733A delivers up to 14Gbit/s aggregate Wi-Fi throughput. 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 8733A also supports multigigabit on the LAN with a 2.5GbE port for wired connections.

### 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 with USB-C powering 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 the Intellifi-managed Wi-Fi platform or TR-069, allowing you to deliver the right cloud-managed Wi-Fi solution customized to your market and business needs.

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## Product specifications

### Network interfaces

- 1 x 10GBASE-T ports
- 1 x WAN
- 1 x 2.5GBASE-T LAN port (IEEE 802.3bz-2016)
- MDI/MDI-X automatically sense
- RJ-45 ports with integrated link and activity LEDs

### 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
- WPA2/WPA3 mixed-mode 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 Remote Management
- TR-181 Device Data Model

### Ethernet services

- Symmetric 10 Gbit/s Throughput
- 802.1D Bridging
- 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

### Console port

- Compatible with USB to TTL FDTI type serial adapters

### Dimensions

- Size: 7.2" x 4.25" x 4.25" (183mm x 108mm x 108mm)  
(H x W x D)
- Weight: ~1lb (500 gm)

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

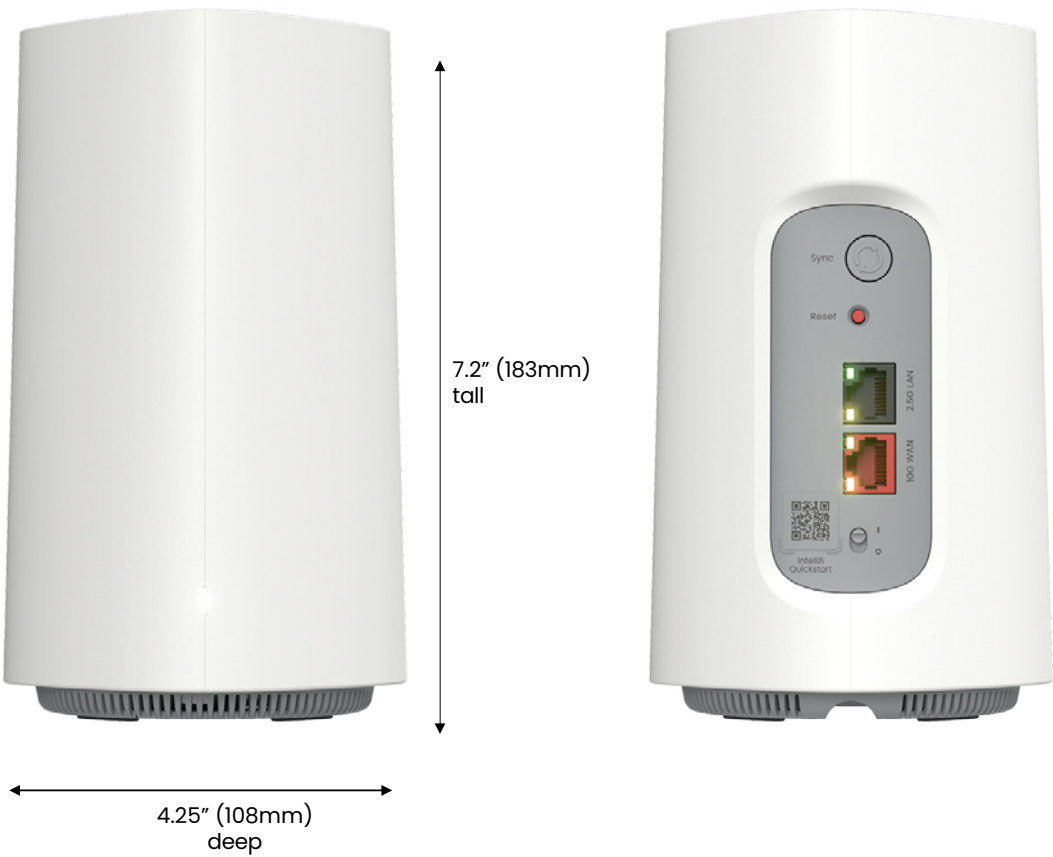
\*Features depend on firmware load

# SDG 8733A

## Ordering information

Product	Region	Wi-Fi Country Code	Part Number
SDG8733A (SmartOS)	Global	All regions	17600079FGS
Supported Accessories			
SDG Wallmount kit (M)			17600201FI

\*For additional part numbers or a custom quote, please contact [sales@adtran.com](mailto:sales@adtran.com).



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