



SDG-9732i

Tri-band Wi-Fi 7 ceiling mount access point

Benefits

- Ceiling-mount, tri-band Wi-Fi 7 access point for indoor applications
- Zero-touch install via an intuitive mobile app
- High-performance tri-band mesh Wi-Fi with support for MLO, MRU-puncturing 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

Overview

Adtran's Service Delivery Gateway (SDG) 9732i is a ceiling-mount Wi-Fi 7 (802.11be) indoor access point (AP). Part of Adtran's portfolio of mesh Wi-Fi 7 indoor and outdoor SDGs, the SDG-9732i is ideal for providing coverage in high-density, high-traffic areas like retail stores, cafes and common areas in multi-dwelling units (MDUs).

The SDG-9732i is an indoor AP with powerful 2x2 antennas on the 2.4GHz band and 3x3 antennas on the 5GHz and 6GHz bands, coupled with a 2.5GbE PoE+ (WAN) port to deliver multigigabit coverage. This ensures that laptops, mobile phones, tablets, and smart home devices can seamlessly roam throughout the premises or common areas in apartment complexes.

The SDG-9732i APs support PoE+ (802.3at) powering, allowing you to connect a Cat5/6 cable into the 2.5GbE WAN port and connect the other end to a PoE+ source such as a router, switch or PoE injector. It can also be powered with a standard AC/DC power brick. The SDG-9732i is ceiling-mounted and includes the mounting kits.

The Adtran Residential Wi-Fi solutions, including 800, 8000 and 9000 Series SDGs, provide operators with a choice of market-leading open-source platforms. We support Intellifi®-managed Wi-Fi solution and any TR-069-based ACS, enabling remote management of the SDGs.

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High-level technical specifications

Network interfaces

- 1x 2.5GbE PoE+ WAN port

WLAN interfaces

- Compliant with IEEE 802.11b/g/n/ac/ax/be
- Dual-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

*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/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

Dimensions

- Size: 7.8" x 7.8" x 1.3" (200mm x 200mm x 35mm) (L x W x D)
- Weight: 620g (1.3 lbs)

Operating environment

- 41° F to 104° F (5° C to 40° C)
- Humidity: 5% - 85% condensing

Safety and EMI

- UL /cUL Listed
- FCC Part 15, Class B
- FCC Part 11, 2.1091 (MPE)
- ICES-003 (Class B)
- ACMA/RCM
- IEC 62368-1
- EN 62368-1
- AS/NZS 62368.1
- ErP
- RoHS Compliant
- UKCA

Environmental

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

Power supply unit

- 2.5 PoE+PSE devices can include
 - PoE+ Ethernet switches/routers
 - PoE+ injector
 - Type 2 (PoE+) device, defined under IEEE 802.3at-2009. PoE+/Type 2 allows for up to 30W of output power from the PSE.

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Ordering information

Product	Region	Wi-Fi Country Code	Part Number
SDG-9732i	All	US/ GB/ DE/ AU*	17600081FNS*

*For additional part numbers or a custom quote, please get in touch with sales@adtran.com.



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