



Quick Install Guide

Model: SDG-9732i



Installation Requirements

- Cat5/6 cable
- Phillips screwdriver
- Drill and drill bit

TERMS OF USE: Adtran Business Class WiFi devices MUST be professionally installed.

Package Contents

- SDG-9732i WiFi 7 Access Point
- SDG-9732i Mount Plate
- SDG-9732i T-bar Clip
- T-bar Clip screws

Hardware Overview



Interfaces/Buttons

- **PoE In 2.5GbE**
 - Used to connect to a Power over Ethernet (PoE) Power Sourcing Equipment (PSE) device
 - PoE+ PSE devices can include:
 - PoE+ Ethernet switches/routers (e.g. SDG-9000)
 - PoE+ injector
 - The SDG-9732i is a Type 2 (PoE+) device, defined under IEEE 802.3at-2009. PoE+/Type 2 allows for up to 30W of output

power from the PSE. Any PSE device used MUST support Type 2 (30W output power).

- **Reset**
 - Used to soft-reset (reboot) or hard-reset (reset to factory default settings)
 - Soft-reset: Press and hold for at least 1 second
 - Hard-reset: Press and hold for at least 10 seconds
- **Console**
 - For Adtran debugging purposes only
- **12VDC In**
 - If not powering the device via PoE, connect a 12VDC external PSU (Adtran Part No. 17600093F1, available for separate purchase).

 **WARNING!** Using an alternate external PSU is NOT supported and will void the Adtran warranty.

LED definition

The SDG-9732i provides a single, RGBW LED, located on the underside of the device.

LED Color	Status
Cold Boot	Solid Blue
Hub WAN down, backup link active	Solid Green
Hub WAN down, no internet	Solid Red
Hub WAN up	Solid White
Linux booting up	Pulse Green
Quick Start	Green with Blue pulse
Reboot and sysupgrade	Pulse Red
Reverting (reconnecting with Hub)	Pulse White
Satellite setup	Solid Red
Satellite up, Strong signal	Solid White
Satellite up, Fair signal	Solid Amber
Satellite up, Poor signal	Solid Pink

Hardware Installation

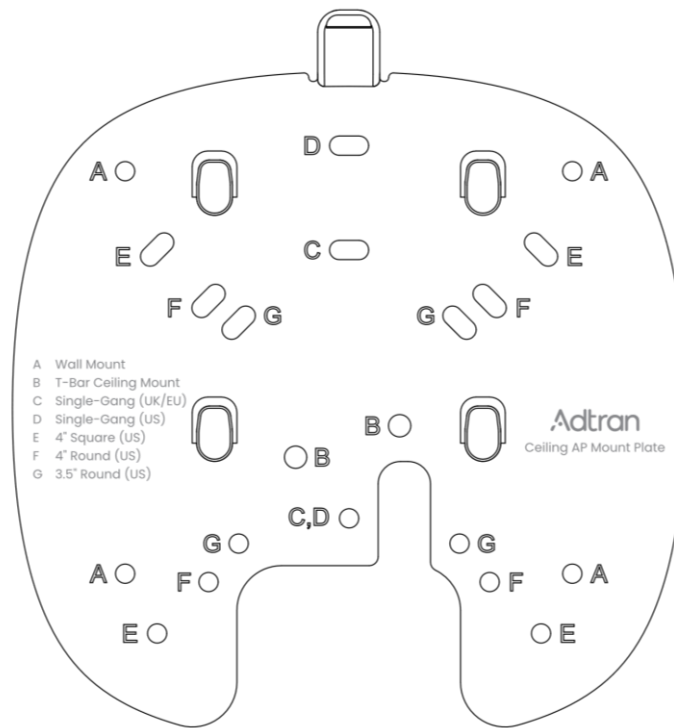
The SDG-9732i can be mounted directly to an appropriate ceiling surface, a junction box, or on a drop ceiling “T-bar”

Ceiling Mount (Direct)

Use the included *Mount Plate*, appropriate screws/fixtures (e.g. self-tapping screws with screw anchors). Quantity 4 screws are recommended. Recommended screw type is below:

Mounting Mode	Screw Type
US gang	#6-32 pan head zinc steel Phillips 3/4” length
UK gang	M3.5 pan head zinc steel Phillips 18mm

	length
Junction Box	#8-32 pan head zinc steel Phillips 3/4" length
Drywall	#8 screw 2" length, with drywall anchors

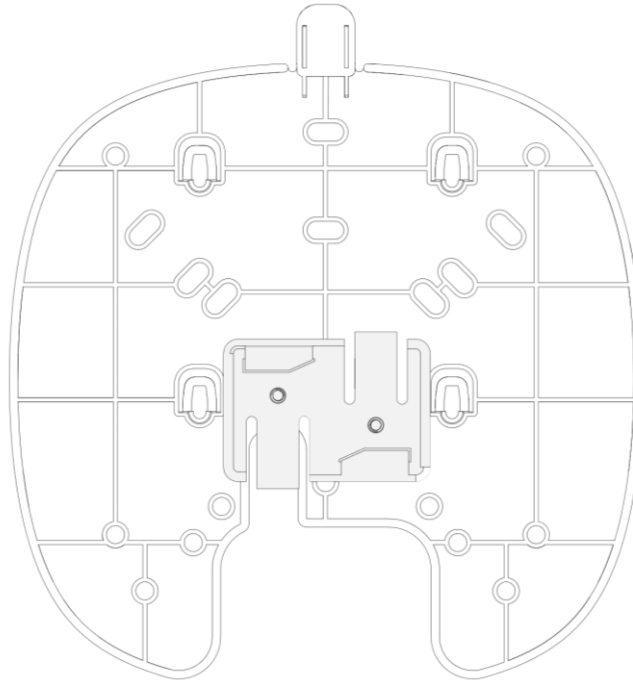


1. Position the *Mount Plate* to the desired position on the ceiling
2. Use a pencil to mark the 4 holes (labeled "A" on the *Mount Plate*) on the ceiling
3. If necessary, pre-drill the holes and place screw anchors
4. Secure the *Mount Plate* to the wall with appropriate screws
5. Align the SDG-9732i body notches with the mounting tabs on the bottom of the *Mount Plate* and slide the device into position until it clicks

Ceiling Mount (Junction box)

1. Position the *Mount Plate* on the junction box (using the appropriate alignment holes for the given junction box)
2. Secure the *Mount Plate* to the junction box with appropriate screws
3. Align the SDG-9732i body notches with the mounting tabs on the bottom of the *Mount Plate* and slide the device into position until it clicks

T-bar Mount



1. Snap the *T-bar clip* onto the ceiling T-bar in the desired installation location
2. Secure the *Mount Plate* to the *T-bar Clip* using the included Phillips-head screws
3. Align the SDG-9732i body notches with the mounting tabs on the bottom of the *Mount Plate* and slide the device into position until it clicks

Powering the SDG-9732i

The SDG-9732i can be powered directly by a supported Adtran PoE switch/router or with an external PoE+ injector.

Connecting to the Ethernet port

1. Connect an RJ45C terminated Cat5/6 cable to the *PoE In 2.5GbE* port
2. Connect the other end of the Ethernet cable to a PoE source port on the router/switch or PoE injector.

Software Configuration

You can manage your wireless network via the Adtran Intellifi® app, the local WebUI of the supported Adtran router (e.g. SDG-9000), or via the cloud (Adtran MeshView). For more information on configuring and using Intellifi®, refer to the Intellifi® User Guide.

Specifications

Dimensions (device alone)	200 mm (H) * 200 mm (D) * 35 mm (W)
Weight	620g (1.3 lbs.)
Network interface	1x 100/1000/2500-BASE T Ethernet port

Buttons	Reset
Antennas	(2) dual-band 2&5GHz, (1) 5GHz, (3) 6GHz, omni-directional 2.4GHz: 2t2r @ 2ss 5GHz: 3t3r @ 3ss 6GHz: 3t3r @ 3ss
Power Method	48VDC Power over Ethernet or 12VDC 3A external PSU
Max Tx Power (per chain)	2.4GHz: 802.11b 1Mbps = 22.5dBm, 802.11n HT20 MCS0 = 20dBm 5GHz: 802.11a 6Mbps = 21dBm, HT20 MCS0 = 19.5dBm 6GHz: 802.11a 6Mbps = 19.5dBm, HT20 MCS0 = 18dBm
Certifications	FCC, ISED, CE, UKCA, RCM, UL
Operating Temperature	5°C to 40°C
Operating Humidity	5-85% Condensing
Wi-Fi Standards	802.11 b/g/n/ac/ax/be
Nominal Power Consumption	18.4W (PoE input) / 14.7W (12VDC input)

Safety Notices

1. Read, follow, and keep these instructions.
2. Heed all warnings.
3. Only use attachments/accessories specified by the manufacturer.



WARNING!

Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.

Electrical Safety Information

1. Compliance is required with respect to voltage, frequency, and current requirements indicated on the manufacturer's label. Connection to a different power source than those specified may result in improper operation, damage to the equipment or pose a fire hazard if the limitations are not followed.
2. There are no operator serviceable parts inside this equipment. Service should be provided only by a qualified service technician.
3. Contact a qualified electrician or the manufacturer if there are questions about the installation, prior to connecting the equipment.
4. Protective grounding and bonding must be installed in accordance with local national wiring rules and regulations.

Compliance

This product meets the following compliance requirements:

- UL /cUL Listed
- FCC Part 15, Class B
- FCC Part 11, 2. 1091 (MPE)
- ICES-003 (Class B)
- ACMA/RCM
- IEC 62368-1 I
- EN 62368-1
- AS/NZS 62368.1 I
- ErP
- RoHS Compliant
- UKCA

NOTE: Changes or modifications not expressly approved by Adtran will void the warranty.

Safety and Regulatory

CAUTION!

- Connect the DC power input to an approved Limited Power Source (LPS) power supply ONLY.
- This product is intended to operate in ambient temperatures up to 40°C.

NOTE

- This product meets the following compliance requirements:
- This equipment contains no parts that can be serviced by the user.
- This product meets EU RoHS Directive. Refer to www.adtran.com/environmental for further information on RoHS/WEEE.
- This product is NRTL Safety Listed to the applicable UL/CSA Standards.
- This product has also been evaluated to applicable international standards as indicated by CE, UKCA, and RCM marking.
- The AC branch circuit socket-outlet must be installed near the equipment and must be easily accessible.
- The RJ-45 jack is not used for telephone line connection.

Regulatory Compliance

This section includes user requirements for operating this product in accordance with National laws for usage of radio spectrum and operation of radio devices. Failure of the end-user to comply with the applicable requirements may result in unlawful operation and adverse action against the end-user by the applicable National regulatory authority.

This product's firmware limits operation to only the channels allowed in a particular Region or Country. Therefore, all options described in this user's guide may not be available in your version of the product.

FCC Requirements for Operation in the United States

FCC Information to User

This product does not contain any user serviceable components and is to be used with approved antennas only. Any product changes or modifications will invalidate all applicable regulatory certifications and approvals.

FCC Guidelines for Human Exposure

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of **41 cm** between the radiator and your body.

This device must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

FCC Radio Frequency Interference Warnings & Instructions

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC regulations restrict the operation of this device to indoor use only.

CAN ICES-3(B)/NMB-3(B)

Canadian Department of Communications Radio Interference Regulations

This digital apparatus (Wi-Fi 7 Ceiling AP Model SDG-9732i) does not exceed the Class B limits for radio-noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

Industry Canada

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

ATTENTION!

Déclaration d'exposition aux radiations: Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de **23 cm** de distance entre la source de rayonnement et votre corps.

CAUTION!

Radiation Exposure Statement: This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance **23cm** between the radiator & your body.

ATTENTION!

1. les dispositifs fonctionnant dans la bande 5150-5250MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

CAUTION!

1. Operation of this device in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

Australia/New Zealand – ACMA/RCM

AS/NZS CSPR 32, Class B (EMC), AS/NZS 4268 (RF), RCM mark with R-NZ

CE Mark

The CE mark on this product represents the product is in compliance with all directives that are applicable to it.

RoHS/WEEE Statement



English

European Directive 2002/96/EC requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams. It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.

Online Resources

Support: support.adtran.com

Adtran, Inc.
901 Explorer Blvd.
Huntsville, AL 35806 USA
