



DSAN Mains Power Pack Kit Installation Instructions

Overview

Audience

These installation instructions are intended for cable system operators and installers who need to install a DSAN Mains Power Pack Kit.

Introduction

The DSAN Mains Power Pack Kit allows a DSAN node to operate from local utility power, 100-240 VAC. It is intended for indoor applications where the use of local utility power is required or preferred. The source of AC power can be a nearby utility outlet or an uninterrupted power supply (UPS).

These installation instructions explain how to install the DSAN Mains Power Pack Kit.

Note:

- The following instructions apply to all current DSAN models.
- For additional information on DSAN installation and configuration, refer to the appropriate installation guide.

Qualified Personnel

Only appropriately qualified and skilled service personnel should attempt to install, operate, maintain, and service this product.



WARNING:

Allow only qualified and skilled personnel to install, operate, maintain, and service this product. Otherwise, personal injury or equipment damage may occur.

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Important Safety Instructions

The installation guide for the DSAN contains important safety information. Please read and become familiar with this information before performing the procedures described in this document.

The following documents are available for DSAN models that can be adapted for AC utility power using the DSAN Mains Power Pack Kit.

- *Cisco DSAN System Installation and Operation Guide*, part number 78-4032302-01
- *Cisco DSAN 8210 Installation & Configuration Guide*, part number 78-4041038-01

To obtain any of these documents, go to www.cisco.com/support.



WARNING:

There is an electric shock hazard if protective earth (PE) ground is removed while plant coax or power is connected. Always keep PE ground connected to this equipment.

Equipment and Tools Needed

The DSAN Mains Power Pack Kit, part number DSAN_MAINS, includes an external AC-to-DC power supply, a power inserter/filter, a bracket for mounting the DSAN to a wall or 19-inch rack, and interconnecting hardware.

The following table lists the complete contents of the kit.

Description	Part Number	Quantity
DSAN Wall/Rack Mount Bracket	4037603	1
External Power Supply	4029112	1
External Power Supply Bracket	4029114	1
Power Inserter/Filter, with mounting plate and cable guide	4029115	1
Power Cord, North American IEC	562389	1
Housing Input Connector	172592	1
Cable Tie	73045	2
F Male to F Male Adapter	1010453	2

Before you begin, confirm that the kit contains all of the parts listed above.

Tools Required

Before you begin, make sure that you have the following tools:

- 3/4-inch open end wrench
- 3/8-inch open end wrench or other F-connector tool
- 1/2-inch nut driver

Additional Equipment Needed

In addition to the parts supplied with the kit, you will need to obtain the following:

- Appropriate size #8 mounting hardware for the DSAN housing and power inserter/filter module
- For installations not in North America, an IEC power cord for the region of use
- Grounding wires as needed for the DSAN and power inserter/filter module housings

To Install the Housing Input Connector

Complete the following steps to install the housing input connector in the DSAN housing.

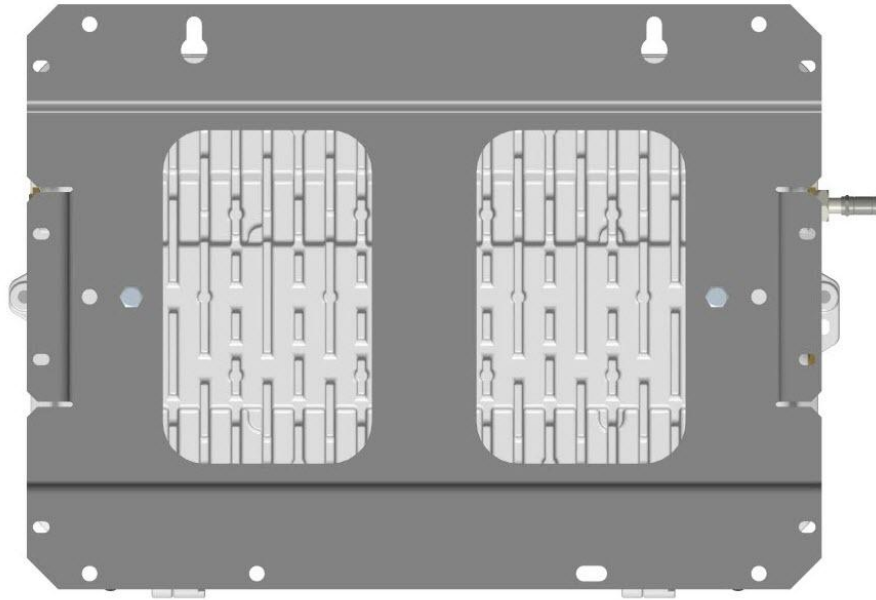
- 1 Open the DSAN housing.
- 2 Remove the RF module.
- 3 Loosen the seizure.
- 4 Install the housing input connector.
- 5 Tighten the housing input connector from 5 ft-lb to 8 ft-lb (6.8 Nm to 10.8 Nm).
- 6 Re-tighten the seizure.

To Install the DSAN Wall Mount Bracket

Complete the following steps to install the mounting bracket to the DSAN housing.

Note: If the DSAN has strand clamps attached, unbolt the strand clamps and set the bolts and strand clamps aside.

- 1 Align the DSAN wall mount bracket with the DSAN housing as shown in the following illustration.

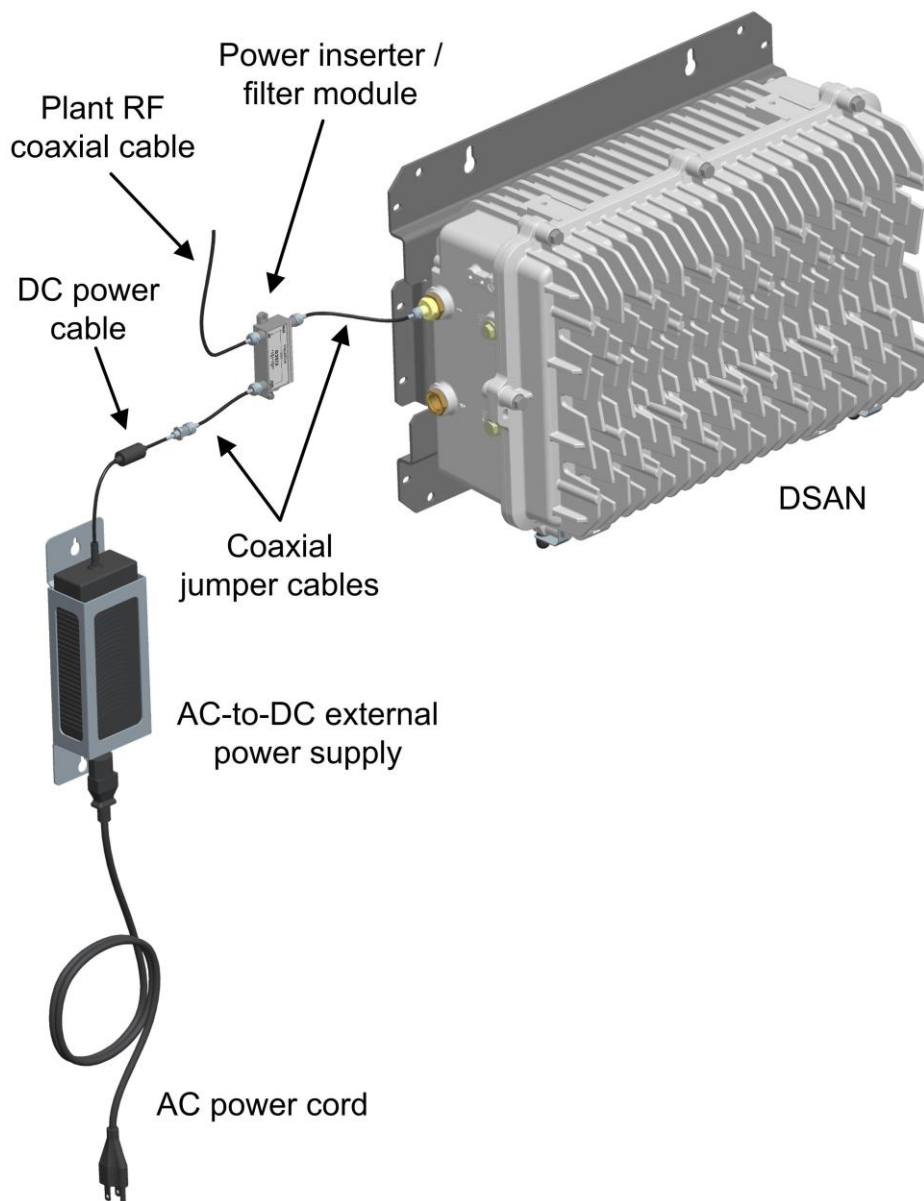


- 2 Secure the bracket to the housing using the bolts removed in step 1. Use the strand clamps as spacers.
- 3 Torque the bolts holding the bracket in place from 5 ft-lbs to 8 ft-lbs (6.8 Nm to 10.8 Nm).

To Install the Mains Power Pack Kit

Complete the following steps to install the mains power pack kit.

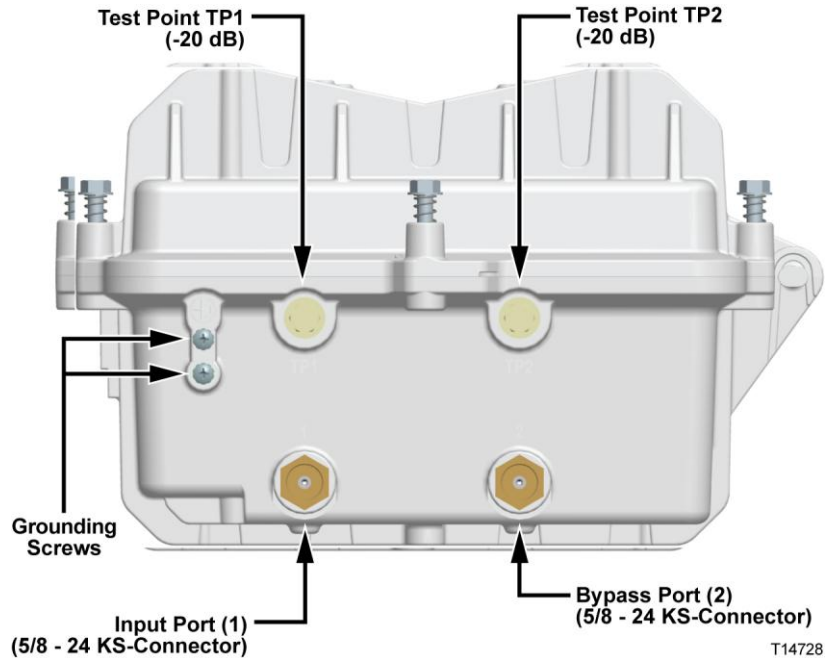
- 1 Attach the DSAN with wall mount bracket attached to a suitable mounting surface or 19-inch rack opening using either the four keyed or the four circular mounting holes in the bracket. Use appropriate size #8 mounting hardware (not supplied).



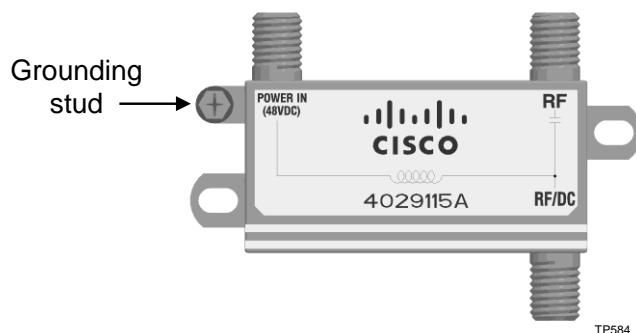
Note: The DSAN can be mounted horizontally or vertically.

To Install the Mains Power Pack Kit

- 2 Attach a ground wire to the DSAN housing as follows:
 - a Loosen the two grounding screws located next to port TP1.
 - b Insert the bare end of a protective earth (PE) ground wire, AWG 18 or larger, under the DSAN grounding screws.



- c Tighten the grounding screws to secure the ground wire.
- Note:**
- If the PE ground wire is insulated, the insulation must be color-coded green with a yellow stripe.
 - The DSAN must be directly and reliably attached to PE ground. Do not rely on the ground connection to the plant coax or power inserter/filter module.
- 3 Install the power inserter/filter module as follows:
 - a Connect one end of an F Male to F Male adapter to the connector labeled **RF/DC** on the power inserter/filter module.
 - b Connect the other end of the F Male to F Male adapter to the RF input port on the DSAN.
 - c Attach the plant RF coaxial cable to the connector labeled **RF** on the power inserter/filter module.



- d Attach a ground wire to the grounding stud on the power inserter/filter module housing. Insert the bare end of a protective earth (PE) ground wire, AWG 18 or larger, under the grounding screw on the unit, and then tighten the screw from 18 in-lb to 20 in-lb (2.0 Nm to 2.3 Nm).
Note: If an insulated PE ground wire is used, the insulation must be color-coded green with a yellow stripe.
- 4 Connect one end of the remaining F Male to F Male adapter to the free end of the DC power connector on the external power supply.
- 5 Choose a mounting location for the external power supply that will allow its cables to reach both an AC power outlet and the POWER IN (48 VDC) connector on the power inserter/filter module.
- 6 Mount the bracket for the external power supply to the mounting surface. Attach the bracket to the mounting surface using appropriate size #8 hardware (not supplied).
- 7 Slide the external power supply unit into the power supply bracket.
- 8 Connect the DC power cable (with F Male to F Male adapter attached) to the POWER IN (48 VDC) connector on the power inserter/filter module.
- 9 Attach the AC power cord to the power supply, and then plug the AC power cord into a suitable nearby AC power outlet.
- 10 Use the provided cable ties as needed to dress all cables neatly.
- 11 Complete the installation process as described in the DSAN documentation.

For Information

For Information

If You Have Questions

If you have technical questions, call Cisco Services for assistance. Follow the menu options to speak with a service engineer.



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