



## Supported Hardware Components

This chapter contains information about the supported hardware components on the Cisco DNA Traffic Telemetry Appliance, and contains the following sections:

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## Supported Hardware Components

The following table lists the hardware components supported on the Cisco DNA Traffic Telemetry Appliance.

**Table 1: Supported Hardware Components**

Component	Description
Chassis	1 RU form factor
Ethernet Ports	Six built-in Gigabit Ethernet and two built-in 10-Gigabit Ethernet ports
ESP	A nonmodular, fixed ESP with a default throughput of 2.5 Gbps, which is upgradable with a software-activated performance license of 5 Gbps, 10 Gbps, or 20 Gbps.
Route Processor	Single integrated route processor
SIP	Integrated SIP
NIM Slots	1
USB Slots	2

# Supported Small Form-Factor Pluggable (SFP and SFP+) Transceivers

The following tables list the supported SFP optics and SFP copper interfaces on the Cisco DNA Traffic Telemetry Appliance.

**Table 2: Supported 1 GE SFP Optics and SFP Copper Interfaces**

PID	Description
SFP-GE-S	1000BASE-SX SFP (DOM)
GLC-SX-MMD	1000BASE-SX SFP transceiver module, MMF, 850nm, DOM
SFP-GE-L	1000BASE-LX/LH SFP (DOM)
GLC-LH-SMD	1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM
SFP-GE-Z	1000BASE-ZX Gigabit Ethernet SFP (DOM)
SFP-GE-T	1000BASE-T SFP (NEBS 3 ESD)
GLC-BX-U	1000BASE-BX SFP, 1310NM
GLC-BX-D	1000BASE-BX SFP, 1490NM
GLC-TE	1000BASE-T SFP transceiver module for category 5 copper wire
GLC-EX-SMD	GE SFP, LC Connector, EX transceiver
GLC-ZX-SMD	1000BASE-ZX SFP transceiver module, SMF, 1550nm, DOM
DWDM-SFP	1000BASE DWDM
CWDM-SFP	1000BASE CWDM
GLC-BX40-D-I	1000BASE BX40-D
GLC-BX40-DA-I	1000BASE BX40-DA
GLC-BX40-U-I	1000BASE BX40-U
GLC-BX80-D-I	1000BASE BX80-D
GLC-BX80-U-I	1000BASE BX80-U
GLC-GE-100FX	100BASE-FX



**Note** The Cisco DNA Traffic Telemetry Appliance does not support GLC-SX-MM and GLC-LH-SM. You can use GLC-SX-MMD instead of GLC-SX-MM and GLC-LH-SMD instead of GLC-LH-SM.

**Table 3: Supported 10 GE SFP Optics and SFP Copper Interface**

PID	Description
SFP-10G-SR	10GBASE-SR SFP+ Module for MMF
SFP-10G-SR-X	10GBASE-SR SFP Module for Extended Temp range
SFP-10G-LR	10GBASE-LR SFP+ Module for SMF
SFP-10G-LR-X	10GBASE-LR SFP Module for Extended Temp range
SFP-10G-ER	10GBASE-ER SFP+ Module for SMF

## Supported NIMs

The Cisco DNA Traffic Telemetry Appliance supports the following NIM form factors:

### NIM-SSD

The following table lists the supported NIM with Solid State Disk (SSD) on the Cisco DNA Traffic Telemetry Appliance:

**Table 4: Supported NIM SSDs**

Part Number	Description
NIM-SSD	NIM Carrier Card for SSD drives
SSD-SATA-400G	400 GB, SATA Solid State Disk

## Cisco DNA Traffic Telemetry Appliance Power Supplies

The Cisco DNA Traffic Telemetry Appliance supports AC and DC power supply options. The modular chassis configurations support the installation of two power supplies for redundancy. When an external power supply fails or is removed, the other power supply provides power requirements for the chassis. This allows you to hot-swap the power supply without impacting the functionality of the appliance.

### Power Supplies for the Cisco DNA Traffic Telemetry Appliance

Each Cisco DNA Traffic Telemetry Appliance power supply provides 250 W of output power. The power supplies are used in a 1 + 1 redundant configuration. There is no input switch on the faceplate of the power supplies. A power supply is switched from Standby to On by way of a system chassis STANDBY/ON switch. When facing the rear of the chassis, power supply slot 0 (PS0) is to the left (next to the power supply standby switch) and power supply slot 1(PS1) is to the right.

The Cisco DNA Traffic Telemetry Appliance supports the following power supplies:

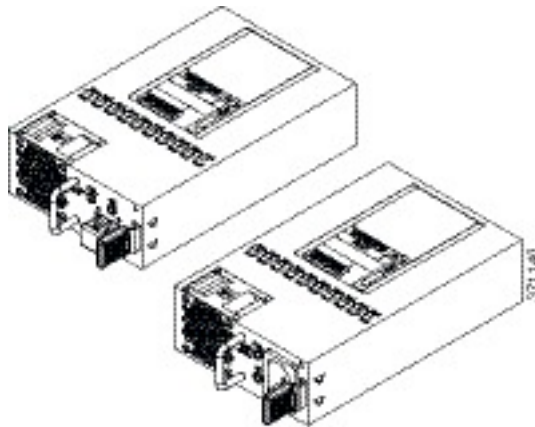
- ASR1001-X-PWR-AC power supply: Provides 250 W output power with DC voltage output of +12 V. The AC power supply operates between +85 and +264 VAC. The AC power supply current shares on the 12 V output and is used in a dual hot pluggable configuration.
- ASR1001-X-PWR-DC power supply: Provides 242 W output power with DC voltage output of +12 V. The power supply operates between ?40 and ?72 VDC. The DC power supply current shares on the 12 V output and is used in a dual hot-pluggable configuration.



**Note** The Cisco DNA Traffic Telemetry Appliance can support two AC or two DC power supplies. Do not install mixed AC and DC power supply units in the same chassis.

The following figure shows both the DC and AC power supplies for the Cisco DNA Traffic Telemetry Appliance.

*Figure 1: Cisco DNA Traffic Telemetry Appliance DC Power Supply and AC Power Supply*



## Cisco DNA Traffic Telemetry Appliance Power Supply Fans

The fans in the power supply module of the Cisco DNA Traffic Telemetry Appliance are used for cooling the power supply module itself while system-level cooling is provided by four fans within the chassis. The power supplies do not depend on the system-level fans for cooling. Fan failure is determined by fan-rotation sensors.

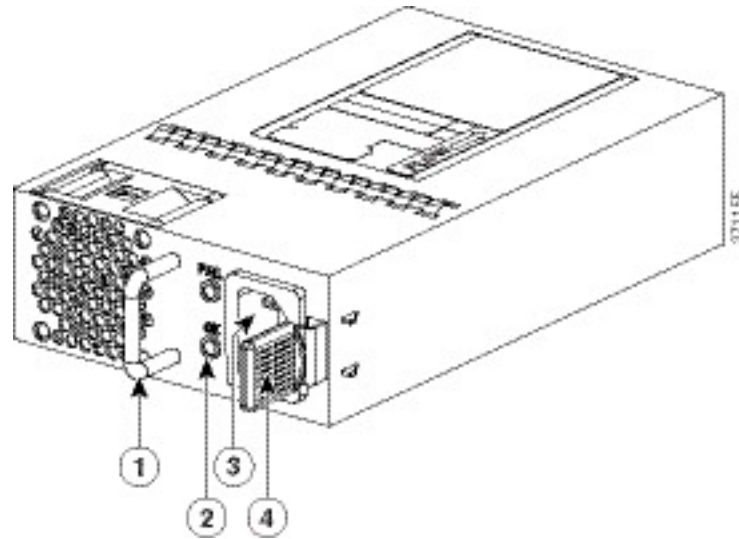


**Note** The fans in the power supply modules will run as soon as the power supply is plugged in, even if the Standby switch is in the Standby position.

## Cisco DNA Traffic Telemetry Appliance AC Power Supply

The Cisco DNA Traffic Telemetry Appliance has two AC power supplies in the rear of the chassis. The input receptacle is an IEC60320 C14 type of filtered AC inlet. The current rating on the connector is 10 A. The following figure shows the Cisco DNA Traffic Telemetry Appliance power supply.

Figure 2: Cisco DNA Traffic Telemetry Appliance AC Power Supply



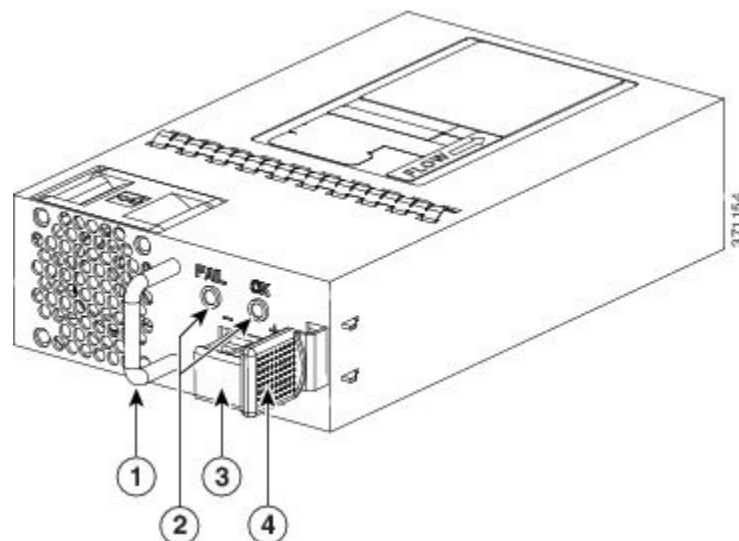
1	Handle	3	AC power connector
2	FAIL and OK LEDs	4	Retaining latch

## Cisco DNA Traffic Telemetry Appliance DC Power Supply

The Cisco DNA Traffic Telemetry Appliance DC input connector is a two-wire connector with connection polarity from left to right (when facing the unit) of negative (-) positive (+).

The power supply has a handle to be used for insertion and extraction. The module must be supported with one hand because of its length. The following figure shows the Cisco DNA Traffic Telemetry Appliance DC power supply.

Figure 3: Cisco DNA Traffic Telemetry Appliance DC Power Supply



1	Handle	3	DC power connector
2	FAIL and OK LEDs	4	Retaining latch

## AC/DC Power System Input Range and Voltage for the Cisco DNA Traffic Telemetry Appliance

The power supply DC Input Range is –40 to –72 VDC, and the AC Input Range is +85 to +264 VAC. The following table describes the Cisco DNA Traffic Telemetry Appliance power supply LEDs.

**Table 5: AC and DC Power Supply LEDs**

LED Color and State	Description
OK - (Solid green)	Input power is on and within the normal operating range. On the AC unit, the LED is solid green when the system is powered on. When the system is powered off, the LED will blink until the AC power is removed.
OK - (Blinking Green at the rate of one blink per second)	Input power that is within the normal operating range is being supplied, but the Standby switch is in the Standby position (and not in the On position).
Fail - (Red)	Power output has failed.
Off	Power supply is shut down.

## Power Cords Supported by the Cisco DNA Traffic Telemetry Appliance

The following table lists the power cords that are supported by the Cisco DNA Traffic Telemetry Appliance.

**Table 6: Power Cords Supported by the Cisco DNA Traffic Telemetry Appliance**

Power Cord Item Number	Description
CAB-AC	Power Cord, 110 V
CAB-ACA Plug	Power Cord, Australia, 10 A
CAB-ACC	Power Cord, China
CAB-ACE AC	Power Cord, Europe, C13, CEE 7, 1.5 M
CAB-ACI AC	Power Cord, Italy, C13, CEI 23-16, 2.5 m
CAB-ACR AC	Power Cord, Argentina, C13, EL 219 (IRAM 2073), 2.5m
CAB-ACS AC	Power Cord, Switzerland, C13, IEC 60884-1, 2.5 m
CAB-ACU AC	Power Cord, UK, C13, BS 1363, 2.5 m

<b>Power Cord Item Number</b>	<b>Description</b>
CAB-IND AC	Power Cord, India
CAB-JPN AC	Power Cord, Japan, C13, JIS C 8303, 2.5 m
CAB-L620P-C13-US	Power Cord, 250 VAC, 15A, NEMA L6-20 to C13, U.S.
CAB-L620P-C13-JPN	Power Cord, 250 VAC, 15A, NEMA L6-20 to C13, Japan
CAB-C13-CBN Cabinet Jumper	Power Cord, 250 VAC 10 A, C14-C13 Connectors
CAB-C13-C14-JMPR Cabinet Jumper	Power Cord, 250 VAC 13 A, C14-C15 Connector
CAB-C13-C14-2M	Power Cord Jumper, C13-C14 Connectors, 2-Meter Length
CAB-C13-C14-AC	Power Cord Jumper, C13-C14 Connectors, 3-Meter Length

