

# DAC10G Series

## User's Guide

Version 1.00  
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### Introduction

An SFP+ Direct Attach Copper (DAC) cable uses a fixed-length passive Twinax copper cable assembly with two attached SFP+ connectors, which reduces cost and power significantly. The SFP+ (SFP Plus) is an enhanced version of the SFP and supports data rates of 10 Gbps. The SFP+ DAC cables are hot swappable. This means that you can install and remove a module while your device is operating.

### Handling, Safety and Environmental Guidelines

Read the following guidelines before installing and using an SFP+ DAC cable.

#### Handling Warning

SFP+ DAC cables are static sensitive. To prevent damage from electrostatic discharge (ESD), it is recommended you attach an ESD preventive wrist strap to your wrist and to a bare metal surface when you install or remove an SFP+ DAC cable.

SFP+ DAC cables are dust sensitive. When not in use, always keep the dust cap on.

#### Safety Warning

Fiber-optic SFP+ modules are equipped with a Class 1 laser, which emits invisible radiation. Read the following safety warnings carefully.

- To avoid possible eye injury, do not look into an operating fiber-optic module's connectors.
- Laser radiation is present when the device or system is powered up.
- Only trained and qualified personnel should be allowed to install or replace these modules.

**Note:** Class 1 Laser Product.

Appareil A` Laser De Classe 1  
Laser Produkt Der Klasse 1.

#### Environmental Warnings

Dispose of your SFP+ DAC cable according to all national laws and regulations.

### Inserting and Removing an SFP+ DAC Cable

This section describes how you insert and remove an SFP+ DAC cable.

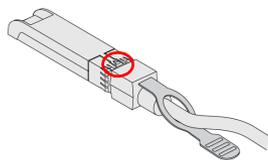
**Note:** Do NOT remove and install an SFP+ DAC cable more often than is absolutely necessary. Doing so may shorten the useful life of the SFP+ DAC cable.

#### Connecting an SFP+ DAC Cable

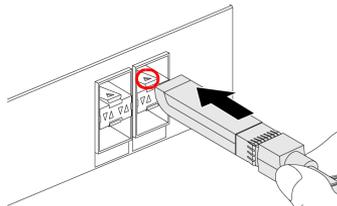
Follow the steps below to insert an SFP+ DAC cable into an SFP+ slot.

- 1 Attach an ESD preventive wrist strap to your wrist and to a bare metal surface.
- 2 Remove the dust cap from the SFP+ DAC cable.

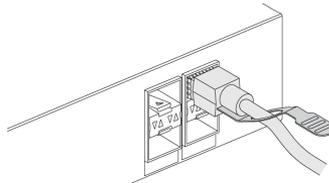
- 3 Locate the triangle-shaped bump on the SFP+ cable connector.



- 4 Align the SFP+ DAC cable in front of the slot opening on a device, with the bump facing the triangle-shaped hole inside the slot.



- 5 Insert the SFP+ DAC cable into the slot until the SFP+ DAC cable connector snaps into place.



- 6 Insert the other end of the SFP+ DAC cable into a remote device.

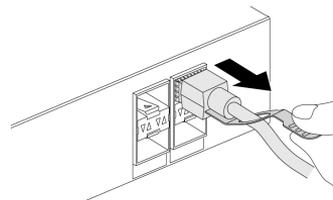
**Note:** Do NOT force or twist the SFP+ DAC cable into a slot. Do NOT insert the SFP+ DAC cable into a 1-Gigabit SFP slot.

Refer to the user's guide that comes with your device for SFP+ slot status.

#### Disconnecting an SFP+ DAC cable

Follow the steps below to remove an SFP+ DAC cable from the SFP+ slot.

- 1 Attach an ESD preventive wrist strap to your wrist and to a bare metal surface.
- 2 Using your thumb and index finger, grasp the cable release ring and carefully slide it out of the slot.



- 3 Place the dust cap onto the SFP+ DAC cable connector.

**Note:** Do NOT force or twist the SFP+ DAC cable out of a slot.

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