

How to tell if an optical module has 8GB or 16GB of bandwidth



Overview

In this section, the specifications for testing an SFP+ optical transceiver will be examined, following steps 1-4 as just outlined. This section will address both types of optical interfaces – namely, an 850 nm laser operating over multimode. In this section, the specifications for testing an SFP+ optical transceiver will be examined, following steps 1-4 as just outlined. This section will address both types of optical interfaces – namely, an 850 nm laser operating over multimode fiber, and a 1310 nm laser operating over single mode fiber. Table 1 outlines the transmitter test specifications. The Fibre Channel standard is evolving to include the next generation "16G" data rate. Specifications show a line rate of 14.025 Gb/s and use of 64b/66b encoding. In this paper, we study the measurements needed to test an SFP+ transceiver to the 16G Fibre Channel standard, covering both Multi- Mode 850 nm and Single Mode 1310 nm interfaces. That is, Fibre Channel (FC) is a high speed networking technology primarily used for Storage Area Networking (SAN). Devices on an Fibre Channel network are typically storage devices, Host Bus Adapters (HBA) connected to computers or servers, or as in the example "Switched Fabric" topology in Figure 1, a SAN Switch, which controls the "Fabric", or state of it. The goal of this example is to demonstrate test and characterization of an SFP+ device to the 16G Fibre Channel standard using state of the art test equipment. The goal is not to show how the device can pass all the specifications; rather, the intent is to show the methodologies and tools one can use to accomplish 16G Fibre Channel testing and characterization. Like transmitter testing, receiver testing involves setting up and measuring the input signal to the receiver (Step 3) and then testing the output of the receiver (Step 4). Unlike transmitter testing, the signal input to the receiver is a worst case signal, typically called a "stressed eye"; its intent is to challenge the receiver to ensure operation.

Article Content

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Optical Transceiver Manufacturer,Types And

There are four types of 16G SFP+ optical modules: 16G FC SFP+, 16G FC bidi SFP+, 16G FC CWDM SFP+, and 16G FC DWDM SFP+. Next, etu-link will

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