

### Outline drawings

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Technical drawing of the optical module showing dimensions and a block diagram.

**Top View Dimensions:**

- Overall width: 30
- Overall height: 26.80
- Pin pitch: 2.54
- Pin 1 offset: 1.27
- Pin 14 offset: 1.27
- Pin 7 offset: 1.27
- Pin 8 offset: 1.27
- Pin 1 offset from left edge: 1.27
- Pin 14 offset from right edge: 1.27
- Pin 7 offset from left edge: 1.27
- Pin 8 offset from right edge: 1.27
- Pin 1 offset from top edge: 1.27
- Pin 14 offset from bottom edge: 1.27
- Pin 7 offset from top edge: 1.27
- Pin 8 offset from bottom edge: 1.27

**Side View Dimensions:**

- Module height: 6.35
- Pin height: 1.27
- Pin pitch: 2.54
- Pin 1 offset: 1.27
- Pin 14 offset: 1.27
- Pin 7 offset: 1.27
- Pin 8 offset: 1.27
- Pin 1 offset from left edge: 1.27
- Pin 14 offset from right edge: 1.27
- Pin 7 offset from left edge: 1.27
- Pin 8 offset from right edge: 1.27
- Pin 1 offset from top edge: 1.27
- Pin 14 offset from bottom edge: 1.27
- Pin 7 offset from top edge: 1.27
- Pin 8 offset from bottom edge: 1.27

**Block Diagram:**

The block diagram shows the internal components of the module:

- Input: 10 pins (1-10) connected to a 10-pin header.
- Output: 10 pins (11-20) connected to a 10-pin header.
- Control: 10 pins (21-30) connected to a 10-pin header.
- Power: 10 pins (31-40) connected to a 10-pin header.
- Ground: 10 pins (41-50) connected to a 10-pin header.
- Optical: 10 pins (51-60) connected to a 10-pin header.
- Optical: 10 pins (61-70) connected to a 10-pin header.
- Optical: 10 pins (71-80) connected to a 10-pin header.
- Optical: 10 pins (81-90) connected to a 10-pin header.
- Optical: 10 pins (91-100) connected to a 10-pin header.

Physical Damage : Cuts, bends, or contamination in fiber cables or connectors.

Environmental Factors : Temperature extremes or moisture. Stable optical power is the foundation of every high-capacity optical transport system. Even minor deviations—whether too high, too low, or unstable—can impact signal integrity, trigger service alarms, or interrupt traffic on DWDM, OTN, or long-haul optical line systems. Because optical networks. These compact devices convert electrical signals to optical signals and vice versa, enabling data transmission over fiber optic cables.

Hardware Failures : Faulty transceivers, switches, or routers. Step-by-Step. While these modules are designed for reliability and long-term performance, issues can and do arise — and efficient troubleshooting is essential to minimize downtime and protect operations. Tip #1: How can we distinguish between the SFP module's RX and TX ports?

The triangle indicates the Tx (transmit) port with the pole facing outward on the SFP module, whereas the. Fiber optics is a technology that utilizes thin strands of glass or plastic, called optical fibers, to transmit data in the form of light pulses.



## Article Content

What Happens If Your Electricity Supply Is Not Stable?

Conclusion Understanding and addressing issues with unstable electricity supply are crucial for ensuring safe, reliable power for both homes and

Fibre Optic Cable Troubleshooting Guide: Common

Fibre optic cable troubleshooting requires a systematic approach to identify and resolve common issues that can affect network performance. By

Fiber Optic Cable Failures in the Field And How to

Fiber optic cables are the backbone of modern communications, delivering high-speed data over long distances with minimal loss. However, in

How To Troubleshoot An Optical Digital Audio Cable

Learn how to troubleshoot an audio cable with our step-by-step guide. Fix common issues such as connectivity problems and audio distortion

unstable-power-supply Case | Procet

PoE devices have relatively high requirements on the quality of network cables, and the use of unqualified network cables will also lead to an unstable power supply.

Identifying (and Fixing) Fiber Performance Issues

Well, let's start by discussing the optical connections. Manufacturers are keenly aware contaminants will detrimentally affect a fiber-based system

Common Fiber Optic Cable Problems And How To Fix

One of the most frequent problems in fiber optic networks is signal loss —the gradual reduction of optical power as light travels through the cable. Causes

Troubleshooting Common Issues in Optical Fiber

Optical fiber networks are essential for delivering high-speed internet and reliable communication. Despite their advanced technology, these

Fiber Network Troubleshooting – Common Issues & Fixes

Learn how to troubleshoot fiber networks. Identify common issues like high loss, dirty connectors, and signal drops, with practical solutions for

What are the most common fiber optics problems?

Fiber optic loss is a concern during connector and cable selection and installation. This article discusses the common issues experienced in fiber

What are the most common fiber optics problems?

Absorption loss describes losses caused by the presence of residual impurities in the fiber optic cable. This loss mechanism relates to the

## Understanding Optical Loss in Fiber Networks

Optical fiber is a fantastic medium for propagating light signals, and it rarely needs amplification in contrast to copper cables. High-quality single mode fiber will

## Causes of faults in communication optical cables

Identifying and understanding the causes of these faults is crucial for ensuring reliable and efficient communication networks. In this article, we will

## Common Optical Transceiver Failures and Effective Troubleshooting ...

1. Most Common Optical Transceiver Failures 1.1 Optical Power Loss or Link Failure  
Symptoms: No link or unstable link Low receive power alarms CRC or FCS errors  
Possible Causes:

## 16 Tips to Troubleshoot Your Optical Transceiver

If the optical power is too high, it will cause signal distortion, packet loss, and even damage to the optical module. If the optical power is too low, it

## Fiber Optic Troubleshooting: Expert Guide for Common

Troubleshoot fiber optic issues like a pro with our expert guide. Resolve common problems and ensure seamless connectivity.

## 7 Causes of Unstable Electrical Voltage and How to Overcome Them

Causes of Unstable Electrical Voltage and Effective Ways to Overcome It Unstable electrical voltage is often the source of various problems in homes and commercial buildings. These

## A Complete Engineering Guide to Troubleshooting Optical Power

Diagnose and resolve optical power issues in modern fiber networks with this complete engineering guide. Learn how to detect loss, instability, alarms, and link degradation using power

## How to Troubleshoot the Weak and Unstable Laser of the Laser

The reasons for the weak laser of the laser marking machine include: unstable power supply, pollution of the optical mirror, power attenuation caused by long use time, and optical path

## Advanced Troubleshooting Guide for Optical Transceivers 2025

In this 2025 edition of our Advanced Troubleshooting Guide, we explore common issues, diagnostic tools, and practical steps for resolving problems with optical transceivers, helping network ...

## Failure Impacts, Survivability Principles, and Measures of Survivability

Only one rule then ever need be applied network-wide: always keep red and white apart, whether cables, power supplies, equipment bays, etc. When followed through the result would be an entirely

## Troubleshooting Optical Transceiver Issues: A

Therefore, it's crucial to troubleshooting any optical transceiver issues promptly. This article will provide a comprehensive guide on how to

## Fault Analysis and Diagnosis Method for Intelligent ...

The optical cable fault caused by icing is also reflected in the poor quality of optical signal transmission, which will affect the power supply. Besides, the OPGW cable fault caused by lightning is also more

## Common faults and reasons for indoor optical fiber lines

Indoor fiber optic lines are used in various settings, such as data centers, offices, and homes. They are known for their high bandwidth and low signal attenuation. However, indoor fiber

## 9 Six Reasons Instability.qxp

Power Supply Instability There are many mechanisms in a power supply that can cause instability. And to the inexperienced designer, they can all look the same on the oscilloscope and sound the same.

## Diagnosing and Solving Common Optical Transceiver Failures

In this article, we discuss the main reasons and solutions for optical transceiver connection failures, which may help you with diagnosing common module issues.

## Demystifying Optical Transceiver Failures: Common

Causes include manufacturing defects, excessive operating temperature, voltage spikes, or simply reaching end-of-life. Symptoms: Gradual

## Optic Cable

Optic Cable – F7 Fusion Splicer Splicing is a common technique used in fibre optic networks to join cables together. However, improper splicing can result in

## The Power Loss in a Fiber Optical Cable

**ABSTRACT** Optical fibers are a developed technology for transmitting various data in the form of light signals or pulses. Fine filaments or filaments made of high-purity glass and special types of plastic

## Contact Us

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