

What is the n1 standard for optical module specifications



AI Overview

The N1 Standard optical module is a cost-effective, standard-reach transceiver for XG-PON and XGS-PON networks, offering a typical optical budget of ~29dB and supporting asymmetric or symmetric 10G speeds.

Overview

The N1-class optical module is designed for deployment in 10-Gigabit Passive Optical Networks (PONs), including XG-PON (10G/2.5G) and XGS-PON (10G/10G) systems. It is optimized for urban and suburban fiber networks with moderate split ratios (typically 1:32 to 1:64) and standard reach distances up to 20 km. N1 modules are widely used in Optical Line Terminals (OLTs) to maintain compatibility with existing XFP or SFP+ ports while providing high-speed broadband services.

Key Specifications

Form Factor: XFP or SFP+ depending on the module type, ensuring compatibility with legacy OLT line cards and modern SFP+ interfaces.

Optical Budget: Standard N1 class offers approximately 29dB, suitable for typical fiber deployments without requiring high-power modules.

Data Rates:

- XG-PON: Asymmetric 10G downstream / 2.5G upstream (9.953 Gbps / 2.488 Gbps)
- XGS-PON: Symmetric 10G upstream and downstream (9.953 Gbps / 9.953 Gbps) with dual-rate support for XG-PON migration

Wavelengths: Transmit at 1577nm and receive at 1270nm, allowing coexistence with legacy GPON systems on the same fiber.

Compliance: Fully compliant with ITU-T G.987.2 for XG-PON and ITU-T G.9807.1 for XGS-PON, ensuring interoperability across vendors.

Laser Class: Class 1 laser product, meeting IEC 60825-1:2007 and 21 CFR 1040.10/1040.11 standards.

Applications

- FTTx Networks:** Ideal for Fiber to the Home (FTTH), Fiber to the Building (FTTB), and Fiber to the Curb (FTTC) deployments.
- Service Provider OLTs:** Supports high-density OLT line cards, enabling cost-effective network expansion without replacing existing hardware.
- Dual-Rate O...**

Article Content

XGS-PON& XGPON OLT N1/N2/E1 SFP+ Optical Transceiver

Standard Complies with SFF-8472 Complies with ITU G.987.2 Complies with ITU G.9807.1 Complies with FCC 47 CFR Part 15, Class B

PON Module Parameters Guide: How to Choose the

Currently, the two main standards organizations for PON networks, ITU and IEEE, have established different technical protocols to define the

Alcatel-Lucent (Nokia) 3HE00564CA 01 10GBASE-LR XFP Optical

This module features a standard XFP form factor, complies with IEEE 802.3ae 10GBASE-LR standards, and supports 10.3Gbps full-duplex data rate over single-mode fiber (SMF).

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XG-PON OLT XFP Transceiver | N1 Class (Standard) | 10G/2.5G

Compliance with the ITU-T G.987.2 standard ensures seamless interoperability within XG-PON ecosystems. This module delivers asymmetric 10G performance (9.953 Gbps downstream / 2.488

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What Is an Optical Module and Its FAQs (V200)

What Is an Optical Module and Its FAQs (V200) Describes what an optical module is and FAQs, including the fundamentals, appearance and structure, key performance counters, common types,

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Why Arista's New Optical Transceiver Is a Big Deal

Futuriom Take: Arista's new XPO module marks a fresh and important take on optical transceiver technology. If it performs in production as planned, it could substantially reduce capex

Stock SFP28 25G 850NM 100M LC 5G 3G Optical Module

How do you ensure optical module compatibility? Every batch undergoes 100% live testing on Cisco, Huawei, Arista, Juniper, H3C and Dell switches. Custom EEPROM coding ensures digital-level

XGS-PON OLT XFP Transceiver N1 Class | 10G/10G & 10G/2.5G

The XGS-PON OLT XFP N1 Transceiver is a carrier-grade optical module designed for the service provider's headend (Optical Line Terminal). Engineered to comply with ITU-T G.9807.1 standards,

XGSPON ONU SFP+ 1270nm-TX/1577nm-RX 9.953G-TX/9.953G-RX

Overview The XGS-SFP-ONT-MAC-I is a high-performance optical transceiver module designed for 10-Gigabit-capable passive optical network (XGS-PON) deployments. It functions as an integrated

Airlive XG(S)_OLT SFP+ N1_SpecSheet

The XG(S)PON OLT SFP+ N1 Transceiver module is designed for dual play use, supporting XGS-PON and XG-PON transmissions up to a 20km distance. The Optical transceiver module is designed for

SFP+ XGS-PON OLT Class N1-E 20km Optical Transceiver

GIGALIGHT SFP+ XGS-PON OLT Class E1 20km optical transceiver module is an XGS-PON OLT in SFP+ package, which complies with the ITU-T G.9807.1 standard. The module supports 9.953Gbps

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XGSPON OLT/ONU Optical Transceiver Modules | AscentOptics

AscentOptics can provide XG-SPON OLT SFP+and XFP transceivers (N1, N2 and E1 according to ODN Class) for XGSPON OLT devices and XGSPON& GPON Combo OLT SFP+ transceivers (B+/N1,

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MSA Optical Transceivers: Standards, Compatibility, and Deployment ...

This guide provides practical, solution-driven insights, combining technical depth, deployment strategies, and commercial guidance for choosing the right MSA-compliant optical modules.

Optical Modules for Huawei S Series Switches

Non-standard structure and size cause failures to install optical modules on adjacent optical interfaces. Structures or sizes of some non-Huawei-certified optical modules do not comply with the Multi

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FS XGS-PON Portfolio: Transceiver, ONU Stick, Combo

The standard XGS-PON SFP+ transceiver is the most standard optical module form, available in both OLT-side and ONU-side versions, suitable for

NVIDIA Mellanox MFS1S50-H010E AOC Active Optical Cable in Practice

Discover the details of NVIDIA Mellanox MFS1S50-H010E AOC Active Optical Cable in Practice at Hong Kong Starsurge Group Co., Limited, a leading supplier in China for Optical

Qatar Overseas Warehouse 1.6T Optical Module 2.5G

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