

South African ONU Optical Network Unit QSFP

Article Overview

QSFP-compatible Optical Network Units (ONUs) in South Africa enable high-speed fiber connectivity for enterprise and last-mile deployments, supporting 40–100 Gbps links with scalable PON integration.

Overview of QSFP and ONU

QSFP (Quad Small Form-Factor Pluggable) modules are optical transceivers that convert electrical signals from switches, routers, or OLTs into optical signals for fiber networks. They support multiple lanes, enabling high aggregate bandwidth: QSFP (4×10 G) for 40 Gbps, QSFP28 (4×25 G) for 100 Gbps, and QSFP-DD (8×50 G) for 400 Gbps. QSFP modules use LC duplex or MPO/MTP connectors and are compatible with single-mode or multi-mode fiber, depending on the application. Optical Network Units (ONUs) are devices that terminate fiber connections at the customer premises or enterprise edge. They interface with OLTs in GPON, EPON, or XGS-PON networks, converting optical signals into Ethernet or other service interfaces. Pluggable ONUs, such as the Cambium XGS-PON models, allow flexible deployment in hard-to-reach locations and integrate with wireless radios for hybrid fiber-wireless solutions.

QSFP-Compatible ONU Applications

- Enterprise and Data Centers: Using QSFP28 CWDM4 transceivers, ONUs can support 100 Gbps links over single-mode fiber up to 2 km, ideal for high-bandwidth applications and scalable network upgrades ...

Article Content

Aug 11, 2025

Maldives ONU Optical Network Unit QSFP | WillisCreek Networks

WillisCreek Networks (WCN) supplies complete FTTH solutions: ODN products, PLC splitters, optical distribution boxes, fiber cross-connect cabinets, OLT/ONU/ONT, GPON/EPON equipment, SC

Nov 06, 2025

What is ONU (Optical Network Unit)?

ONU (Optical Network Unit) plays a crucial role in modern telecommunications, enabling seamless connectivity and high-speed data

May 07, 2026

Networking, ICT and Telecommunication Distributor | Scoop

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Jan 30, 2026

The Ultimate Guide to Cisco QSFP Optical Transceiver Modules

The QSFP standard was followed by Cisco's QSFP optical transceiver modules, which were created for fast data transmission. The QSFP+ can work with 100 Gbps and more because it

Jun 19, 2026

Transceiver Modules QSFP28 100GB

Networking and fibre specialists looking to take their environment to the next level can now do so with the release of the Netshield QSFP 100G range of compatible transceiver modules, ideal for

Mar 20, 2026

What is QSFP and Optical SAS?

Connections are made using active optical cables with existing QSFP connectors on supported SAS HBAs. Optical SAS cables are available in both multimode and single mode fiber types, and are

Oct 14, 2025

Optical Network Unit (ONU): Definition, Working Principles, and Future ...

Explore Optical Network Units (ONU) in PON networks. Learn about ONU components, GPON/XGS-PON standards, deployment scenarios, management, troubleshooting, and future

Apr 25, 2026

Fiber Optic

Cape Town International Convention Centre, South Africa. Fiber patch cables, Data center cables, Switches, MTP/MPO cables, LC cables, Transceivers, Multifiber

Aug 09, 2025

SFP Transceivers Archives

ADDRESS Johannesburg Unit 5 - Wynberg Works, 40 5th Street, Wynberg, Johannesburg, 2090, South Africa Cape Town Unit 11 – Plantation Center, 40 Plantation Rd, Ottery, Cape Town, 7808 EMAIL

Aug 27, 2025

N286-400G-SR8-G Eaton Tripp Lite series QSFP-DD Transceiver

Just plug the QSFP-DD end of the transceiver into your network device. The other end has an MPO/APC connector to link with multimode fiber optic cable (sold separately).

Dec 23, 2025

Optical Terminal

The OptiXstar product series extends optical connectivity to every home, enterprise, and campus, bringing families closer and making enterprise operations far more efficient.

Mar 16, 2026

South African light transmitter QSFP-DD

BlazingFast Photonics delivers high-speed optical transceivers, silicon photonics, co-packaged optics, OSFP 1.6T modules, laser drivers, TIAs, DFB lasers, VCSEL arrays, and LPO solutions for data

Jun 10, 2026

40G QSFP+

40G QSFP+ to 8x LC AOC 40G QSFP+ to 4 Duplex LC Active Optical Cable, Cisco Compatible.

Sep 06, 2025

Qsfp Optical Transceiver Manufacturers & Factories in South Africa

South Africa's leading universities — University of Cape Town, University of the Witwatersrand, and Stellenbosch University — are upgrading their campus backbone networks to 100G and 400G using

Nov 17, 2025

Netshield South Africa provides local availability of 40GB QSFP's

Netshield South Africa, a WestconGroup company, is pleased to announce the immediate availability of its new range of 40GB QSFP (Quad Small Form-Factor Pluggable) compatible

Sep 27, 2025

Qsfp Optical Transceiver Manufacturers & Factories in South Africa

Featured QSFP Optical Transceiver Products for South Africa Delivering cutting-edge 400G and 800G optical transceiver solutions to South African data centers, telecom operators, and enterprise

Dec 04, 2025

50GPON ONU QSFP28 Optical Transceiver Module

Superxon 50G ONU transceivers, compliant with QSFP28 MSA, support single-fiber bi-directional data links with asymmetric TX and RX rates: 24.8832Gbps TX and

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Maldives ONU Optical Network Unit QSFP | WillisCreek Networks

Maldives ONU Optical Network Unit QSFP WillisCreek Networks (WCN) supplies complete FTTH solutions: ODN products, PLC splitters, optical distribution boxes, fiber cross-connect cabinets,

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Ubiquiti UISP - Fiber Instant

Introducing the Ubiquiti UISP - Fiber Instant - GPON ONU/ONT! This cutting-edge device is designed to provide high-speed internet access via fiber optics, delivering lightning-fast connectivity for your

Jan 15, 2026

40GBASE QSFP TRANSCEIVER MODULES & CABLES

The 40G QSFP's also boast active optical cables for short haul in data centre connectivity between two core switches. As a result of added features, you can leverage its monitoring capabilities to detect

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Ubiquiti Fiber Instant

Ubiquiti Fiber Instant – GPON ONU/ONT Brand: Ubiquiti SKU:UF-Instant Out of stock
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Transceiver Modules QSFP 40GB

The 40G QSFP's also boast active optical cables for short haul in data centre connectivity between two core switches. As a result of added features, you can leverage its monitoring capabilities to detect

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Fibre Utility Networks – Fiber Optic, networking and IoT Solutions for ...

Fibre Utility Networks has been providing Fibre Optic Solutions to various industries across the continent for over 18 years. Initially the primary focus of the company was concentrated towards the installation

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What is an Optical Network Unit: Understanding Principles

What is an ONU? An Optical Network Unit, as a key node in a passive optical network, is responsible for the "last mile" of fiber optic network access to homes and buildings. In a PON system,

Sep 23, 2025

Ubiquiti UISP WaveFiber ONU SC/APC 2.5Gbps Ethernet GPON Optical ...

Ubiquiti UISP WaveFiber ONU SC/APC 2.5Gbps Ethernet GPON Optical Network Media Converter and other Ubiquiti products available at FirstShop South-Africa. Price, availability and reviews for Ubiquiti

Jul 07, 2026

ONU vs. ONT in FTTx Networks: What's the Difference?

In the world of fiber optic networks, understanding the differences between ONU (Optical Network Unit) and ONT (Optical Network Terminal) is essential for choosing the right technology for

Jul 18, 2026

A Quick Guide to ONU (Optical Network Unit)

Discover the magic of ONU technology in our article. Uncover its types, key features, and importance. Elevate your understanding of optical network unit.

Contact Us

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