

Article Overview

OTN routers in Myanmar commonly use GPON SFP or standard SFP modules to connect optical networks, supporting high-speed fiber access and integration with OLT/ONT systems.

Overview of OTN Routers and SFP Modules

OTN (Optical Transport Network) routers are designed to handle high-capacity optical traffic, often deployed in backbone and metro networks. They rely on SFP (Small Form-factor Pluggable) transceivers to interface with fiber optic cables. In Myanmar, service providers often deploy GPON SFP modules for fiber-to-the-home (FTTH) or business services, enabling OTN routers to connect directly to subscriber networks without additional transponders .

GPON SFP Modules

GPON SFPs are bidirectional optical transceivers compliant with ITU-T G.984 standards. They are used in both OLT (Optical Line Termination) at the central office and ONT/ONU (Optical Network Terminal/Unit) at the subscriber side . Key features include:

- o Bidirectional communication over a single fiber using different wavelengths for upstream and downstream.
- o Data rates typically 2.5 Gbps downstream and 1.25 Gbps upstream.
- o Reach up to 20 km over single-mode fiber.
- o Form factor: Standard MSA SFP, allowing plug-and-play installation in compatible routers . GPON SFPs are categorized as OLT SFPs for central office routers and ONT/ONU SFPs for subscriber devices. Class B+ and Class C+ modules differ in transmit power and receive sensitivity, affecting the number of ONTs supported per OLT SFP .

Integration with OTN Routers

Modern OTN routers in Myanmar can accept standard SFP or GPON SFP modules directly in their SFP ports. This allows:

- o Direct fiber connectivity to GPON networks without additional modems.
- o Plug-and-play deployment, with configuration handled by the ISP or router OS.
- o Support for FTTx, business services, and wireless backhaul . Some OTN routers may also support QSFP-DD modules for higher-capacity links (400G-800G), but for GPON subscriber access, standard SFPs remain the primary choice .

Installation and Compatibility

- o Ensure the SFP module matches the router's SFP port type (MSA-compliant).
- o Verify OLT/ONT compatibility to avoid PON MAC mismatches, as PON communication is vendor-specific .
- o Follow vendor guidelines for plug-in, configuration, and monitoring to maintain stable optical links .

Summary

For Myanmar deployments, OTN routers paired with GPON SFP modules provide a reliable solution for high-speed fiber access. They support plug-and-play installation, comply with ITU-T standards, and enable integration with both central office OLTs and subscriber ONTs, making them suitable for FTTx and business network applications .

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The following pictures show an OLT SFP with PON MAC part and a transceiver without PON MAC. It is

GPON SFP module is important part in GPON optical network. This post focus on GPON SFP wiki, GPON SFP Class

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The OTN wrapper feature works with the standard transceiver types that are supported for the LAN mode of



Myanmar OTN Router SFP

10G, 40G and 100G on

Media converter can convert optical signals into electrical signals, plug-and-play, no

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