

# Imported ONU Optical Network Unit QSFP from Thailand

## Article Overview

An ONU with QSFP modules can be imported from Thailand, with trade data, specifications, and sourcing options available for global buyers.

## Overview of ONU and QSFP

An Optical Network Unit (ONU) is a critical endpoint device in fiber-optic networks, converting optical signals from service providers into electrical signals for local networks. ONUs support high-speed internet, voice, and video services, and some models include built-in Wi-Fi for residential or office use, while enterprise models offer PoE/PoE+ support and multiple GE ports for high-bandwidth applications. QSFP (Quad Small Form-Factor Pluggable) modules are optical transceivers used in ONUs and other network devices to convert electrical signals into optical signals for fiber transmission. QSFP modules support high data rates (e.g., 40 Gbps or 100 Gbps) and are suitable for data centers, PON networks, and enterprise backhaul.

## Import Considerations

- o HS Code: QSFP modules and ONUs are typically classified under HS Code 85176290, which is used for customs and trade reporting.
- o Trade Data: Global import data shows that ONUs and optical network terminals are widely traded, with top exporting countries including China, Vietnam, and Mexico, while major importers include Mexico, Chile, and the United States. Thailand can serve as a supplier, but buyers should verify exporters and shipment history.
- o Sourcing Platforms: Verified suppliers and bulk purchase options are available on platforms like Alibaba, which provide firmware support, technical specifications, and bulk pricing.

## Technical and Deployment Notes

- o Residential ONUs: Typically support up to 2.5 Gbps for data and 1 Gbps for voice/video, with Wi-Fi integration for home networks.
- o Enterprise ONUs: Models like Huawei OptiXstar P813E-E offer 8 GE ports, PoE/PoE+ support, and 10 Gbps uplink/downlink, suitable for dense 4K camera deployments and enterprise campus networks.
- o PON Integration: ONUs operate in Passive Optical Networks (PON), connecting to Optical Line Terminals (OLT) and supporting multiple users via passive splitters.

## Recommendations for Importing from Thailand

- o Verify Supplier Credentials: Use trade intelligence tools to check shipment history, buyer reviews, and certifications.



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- o Check Compatibility: Ensure the ONU and QSFP modules match your network architecture (e.g., GPON, XGS-PON).
- o Understand Customs and Duties: Use the correct HS code (85176290) and check Thailand's export regulations.
- o Consider Firmware and Support: Confirm firmware update support and technical assistance for seamless integration.
- o Plan Logistics: Evaluate shipping options, lead times, and import taxes to optimize cost and delivery. By following these steps, businesses can import ONU devices with QSFP modules from Thailand efficiently, ensuring compatibility, performance, and regulatory compliance .

Superxon 50G ONU transceivers, compliant with QSFP28 MSA, support single-fiber bi-directional data

The Quad Small Form-Factor Pluggable (QSFP) family represents a critical evolution in high-speed optical transceiver

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Whether for data centers, enterprise networks, or service providers, choosing the right optical transceiver is critical for

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QSFP-DD ports incorporate a riding heatsink that can be sized independently of the optical module, added on top of

Hier sollte eine Beschreibung angezeigt werden, diese Seite l&#228;sst dies jedoch nicht zu.

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