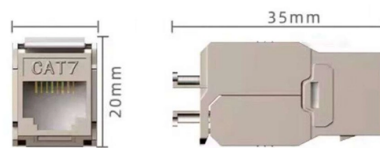


## Door-to-door transport of OSFP optical modules PAM4 to Estonia



### Overview

Door-to-door transportation of 400G optical modules PAM4 to BlazingFast Photonics delivers high-speed optical transceivers, silicon photonics, co-packaged.

### Key Takeaways

OSFP optical modules using PAM4 signaling can be shipped door-to-door to Estonia with careful handling, temperature control, and compliance with international shipping regulations. Overview of OSFP PAM4 Modules

OSFP (Octal Small Form-Factor Pluggable) modules are high-speed optical transceivers designed for 400G, 800G, and emerging 1.6T Ethernet applications. They use 8-lane PAM4 signaling, with each lane capable of 50-100G, depending on the module generation, providing aggregate bandwidths of 400G to 800G or higher . These modules are thermally optimized, supporting power dissipation up to 15-20W for 400G and higher for advanced modules, and require careful handling to maintain signal integrity and prevent damage .

#### Shipping Considerations

- **Packaging and Protection:** OSFP modules are sensitive to electrostatic discharge (ESD) and mechanical shock. Modules should be shipped in anti-static trays or carriers, with cushioning to prevent vibration or impact during transit .



- **Temperature Control:** High-speed optical modules are sensitive to temperature extremes. Door-to-door shipping should maintain ambient temperature control, ideally between 15–25°C, to prevent thermal stress or degradation of optical components .
  - **Customs and Compliance:** Shipping to Estonia requires compliance with EU import regulations, including proper documentation for electronic components, CE marking if applicable, and adherence to RoHS/REACH standards .
  - **Carrier Selection:** Use specialized logistics providers experienced in high-value, sensitive electronics. Companies offering door-to-door service can handle customs clearance, insurance, and tracking, ensuring modules arrive safely and on time .
- Recommended Steps**
- Contact a specialized optical module distributor or logistics provider that offers international door-to-door shipping, similar to services provided for 400G PAM4 modules to other countries .
  - Confirm packaging requirements with the manufacturer to ensure modules are shipped in ESD-safe, thermally stable containers.
  - Arrange insurance for high-value optical modules to cover potential loss or damage during transit.
  - Coordinate delivery timing to minimize storage in uncontrolled environments, especially during summer or winter months.

#### Summary

Shipping OSFP PAM4 optical modules to Estonia is feasible with proper packaging, temperature control, and regulatory compliance. Using a specialized logistics provider ensures safe, door-to-door delivery while maintaining the integrity and performance of these high-speed optical components .

## Article Content

Door-to-door transportation of 400G optical modules PAM4 to

BlazingFast Photonics delivers high-speed optical transceivers, silicon photonics, co-packaged optics, OSFP 1.6T modules, laser

800G OSFP DR8/DR8+ PAM4 Optical Transceiver

The optical transceiver supports a full CMIS-compliant set of control, alarm, and monitoring features through a standard I2C

Costa Rica door-to-door transport of 1 6T optical module OSFP

Explore the evolution of optical modules in speed and form factors from 400G to 1.6T, stressing key enhancement technologies, and

Characterizing Optical Module Performance to Minimize the

Verification of Optical Modules Timing Performance PAM4 optical modules have significant latency (10''s of ns) as well as variation in

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

