

Door-to-door transport of tunable optical modules SFP



Article Overview

Tunable SFPs require careful packaging, environmental control, and handling to ensure safe door-to-door transport without performance degradation.

Key Considerations for Transport

1. **Packaging and Protection** Tunable SFPs are delicate optical transceivers with precise laser and photonic components. Use anti-static, shock-absorbing packaging such as ESD-safe foam or clamshells inside rigid boxes. Each module should be individually sealed to prevent dust contamination and mechanical stress. For multiple units, separate compartments or dividers are recommended to avoid contact between modules. 2. **Environmental Controls** These modules are sensitive to temperature, humidity, and vibration. Maintain a controlled environment during transport:

- **Temperature:** Typically 0–70°C for storage; avoid extreme heat or cold.
 - **Humidity:** Keep relative humidity below 85% to prevent condensation.
 - **Shock and Vibration:** Use cushioned packaging and avoid stacking heavy items on top.
3. **Handling and Labeling** Clearly label packages as “Fragile – Optical Modules” and “ESD Sensitive”. Instruct carriers to handle with care and avoid dropping or shaking. Door-to-door couriers should be briefed on the sensitivity of the cargo. 4. **Regulatory Compliance** If shipping internationally, check for export control regulations and carrier restrictions for electronic components. Some tunable SFPs may contain lasers classified under IEC 60825-1, requiring proper labeling. 5. **Trans...**

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