

Product Brief

Mechanical Optical Switch

Overview

OptoHub's Mechanical Optical Switch supports optical network redundancy by monitoring optical signal strength in real time and switching to a backup line before signal failure occurs. It is designed to help prevent communication outages in CATV and other optical network applications.

SPECIFICATION

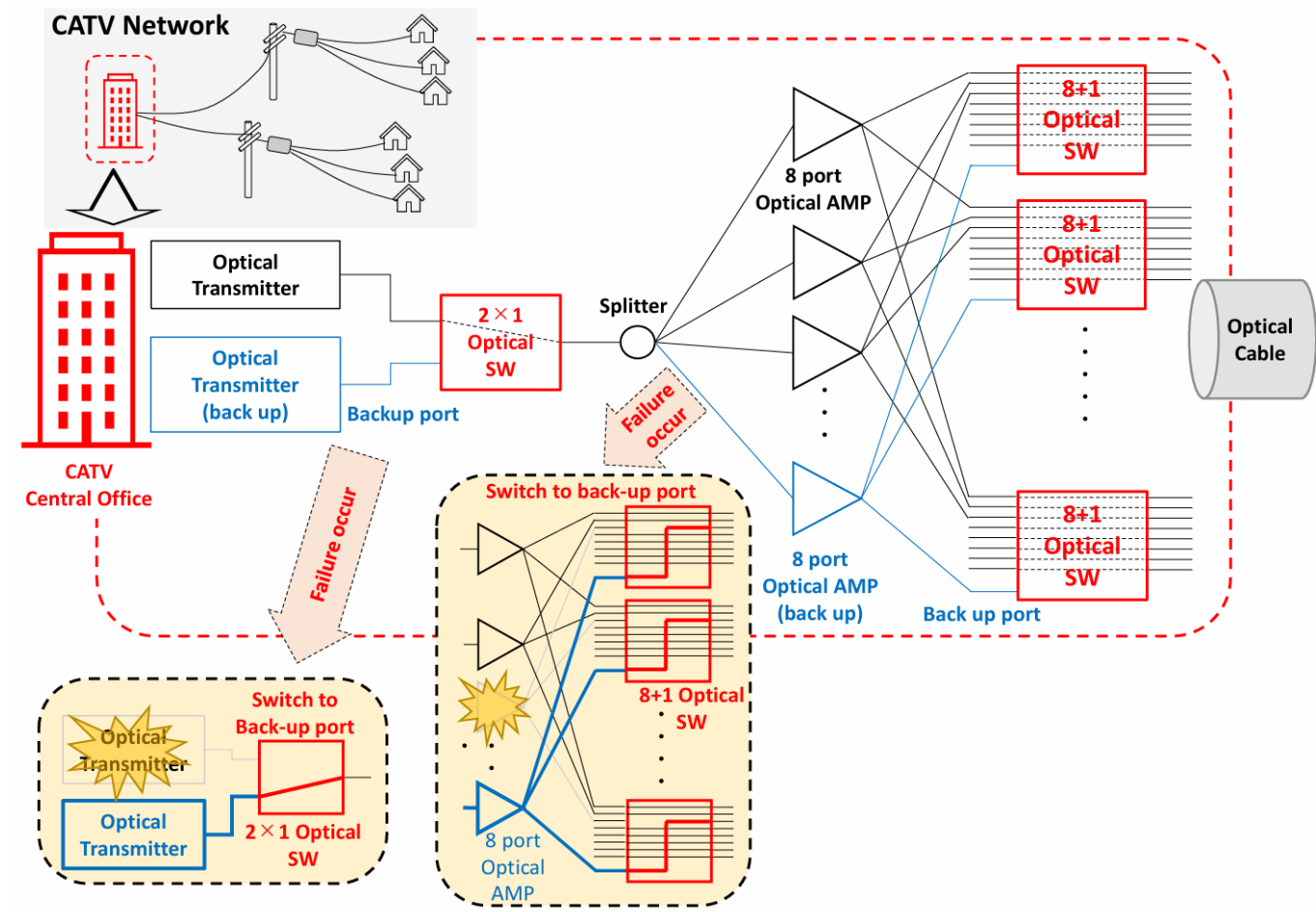
Features

- Optical signal strength monitoring
- TTL-driven switching control
- TTL output switching position monitoring
- Low insertion loss
- Self-latching switching state
- Supports SMF and GI50/125 fibers
- Connector type: SC, FC and LC
- 2 x 1 configuration: W51 × L27 × H9 mm
- 8 + 1 configuration: W82 × L100 × H14.5 mm

Parameter	Specification
Fiber Type	SMF
Wavelength Range	1,260 ~ 1,360 nm 1,480 ~ 1,580 nm
Insertion Loss	≤ 1.5 dB
Crosstalk	≥ 60 dB
Return Loss (SPC)	≥ 40 dB
Return Loss (APC)	≥ 50 dB
Switching Time	≤ 10 ms

Applications

Typical applications include CATV network redundancy, optical line protection, backup fiber path switching, and optical signal monitoring. The 2x1 and 8+1 optical configurations help maintain communication continuity by switching between primary and backup optical paths.



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Web-site: <https://us.optohub.com> Email: info@us.optohub.com