



Switches the optical paths in the physical layer
without interrupting network services.



NTT-AT's optical switch unit, CSW2 series, is a compact model of our existing brand, NSW. The CSW2 brings dedicated protection switching to optical networks for a reasonable cost.

1

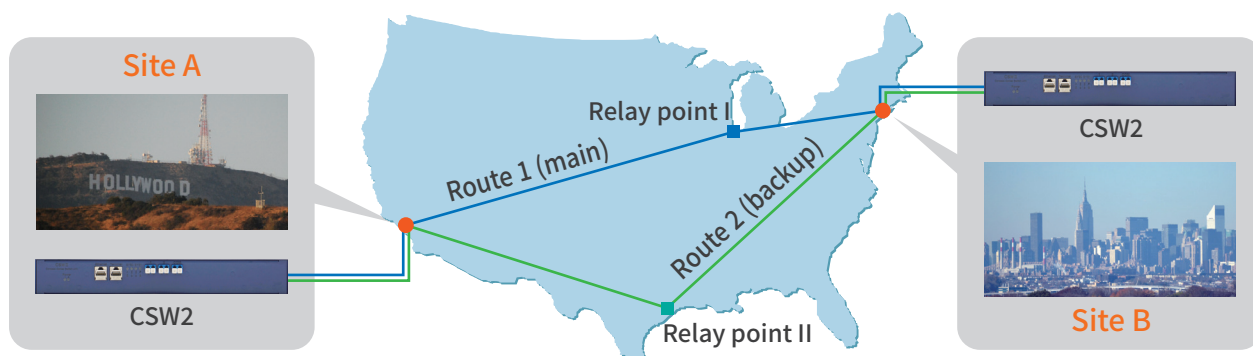
Regular surveillance of optical power and physical switching to instantly restore networks

Dramatically cut network downtime by switching in the physical layer. Realizes an extraordinary availability of over 99.9999%! CSW2's automatic switching of the optical paths greatly reduces the network operating cost.

2

Passive optical device puts top priority on Fail-Safe operation

Because it is a passive (transparent) device, even in the case of a power outage, the network communication itself is not affected. Also, the CSW2 brings high flexibility, applicable to all types of optical transmission, regardless of the communications protocol.



CASE

Transmission Pathway Redundancy

Automatically detecting failures and switching to the backup route without interrupting network services.

CASE

Ring Network Add / Bypass

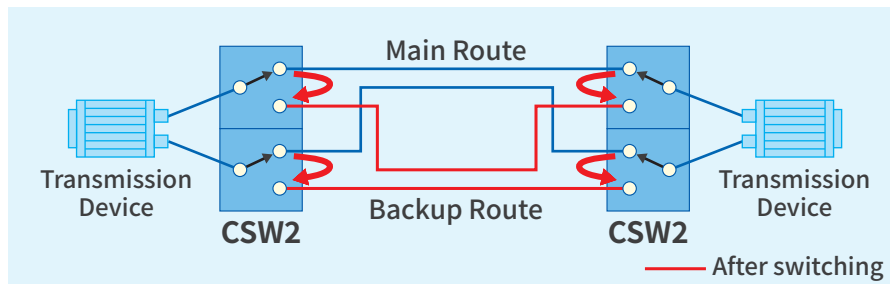
Automatically bypassing the node when the power is lost so that the network services for other nodes continue.

CASE

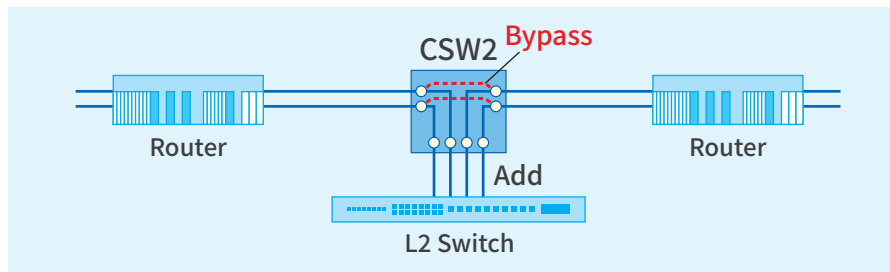
Network Equipment Redundancy

Automatically switching to backup, which greatly improves the availability and reliability of the services.

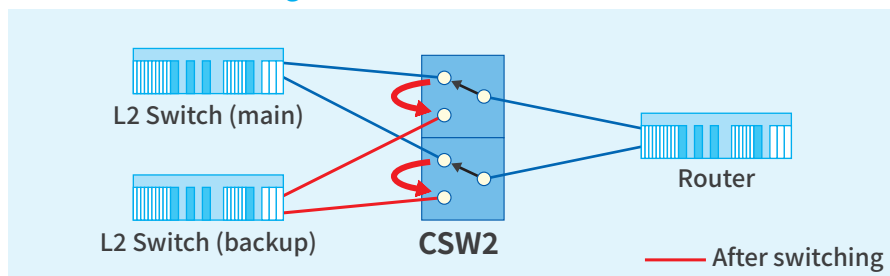
Backbone Doubling



Bypassing The Node



L2 Switch Doubling



New Feature (1): Power Redundancy (Hot Swap)

Backup power supply will keep the system running in the event of power supply problems.



New Feature (2): Serial Console Interface

Equipped with the same console functions as the higher-end NSW models.

Product Specifications: CSW2

# of channels	1~4ch
Size	Width 304 x Depth 182 x Height 43mm ^{※1}
Power Input Voltage	AC 85~250V, DC -35~-72V
Power Consumption	10W [≥]
Operating Temperature	0~55°C
Operating Humidity	15~85% (non condensing)

^{※1} Not including projections

Product Specifications: Optical Switch

Types of Optical Switch	1×2, 2×4, 1×2+coupler, others ^{※2}
Optical Switch Operation	Self maintenance type (maintain the power-off state)
Compatible Optical Fibers	SM, MM 50μm
Optical Loss Detection Level	SM: approx. -40dBm~-10dBm, MM: approx. -25dBm~-10dBm
Switching Protection Time	0-17000msec (1msec scale)
Wave Length	SM: 1300nm~1600nm, MM: 850nm, 1300nm
Insertion Loss	with automatic switch: 2dB ^{※3} without automatic switch: 1dB ^{※3}
Optical Connector	SC/SPC, LC/SPC, SC/APC, others ^{※2}

^{※2} Please contact us for other types. ^{※3} Not including connector

Product Functions ^{※3}

Functions	Automatic Changeover / Manual Switch / Remote Surveillance / Remote Control / Grouping Linkage / Switch Protection / Switch Mode
System Management	GUI:HTTP / CLI:Console TELNET SSH SNMP v1, v2C, v3
High Availability	syslog / NTP Time / Synchronization / Fail-safe / External redundant power supply / Hot Swap

^{※4} Functions differ according to the product model. Please contact us for more details.

Notes:

- Please understand that all comments and data recorded herein may be subject to change without prior notification.
- Catalog descriptions: as of September, 2025

For more information,
please contact

https://keytech.ntt-at.com/en/network/prd_10229.html

