



High Reliability Redundancy Configuration NSW Series

"Instantly switches networks in the physical layer"

- Smart Redundancy style.

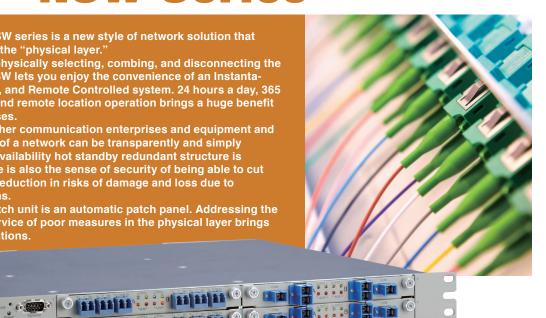
High Reliability Redundancy Configuration NSW Series

NTT-AT's optical switch unit NSW series is a new style of network solution that switches pathways instantly in the "physical layer."

In addition to the functions of physically selecting, combing, and disconnecting the pathways of optical signals, NSW lets you enjoy the convenience of an Instantaneous, Automatic, Transparent, and Remote Controlled system. 24 hours a day, 365 days a year operation service and remote location operation brings a huge benefit to telecommunication enterprises.

Since the single point link to other communication enterprises and equipment and transmission path of your side of a network can be transparently and simply duplicated, the resulting high availability hot standby redundant structure is especially advantageous. There is also the sense of security of being able to cut connections physically, and a reduction in risks of damage and loss due to problems such as packet storms.

In other words, this optical switch unit is an automatic patch panel. Addressing the weak link in mission critical service of poor measures in the physical layer brings dramatic improvement in operations.





Dramatically cut network downtime by switching in the physical layer. Realizes an extraordinary network operating ratio of over 99.99%! Surveillance and operation from a remote location is also possible.

Passive device puts top priority on **Fail-Safe operation**

Because it is a passive (transparent) device, even in the rare chance of a failure in the base or power supply, the communication itself is not affected. Also, brings a high flexibility applicable to all types of optical transmission, regardless of the communications protocol.

Abundant installation record and customized results

NSW has a installation record of more than 10,000 ports in over 30 companies, ISP, CATV enterprises, etc., in Japan and around the world. We also do a wide variety of customizing to match the needs of our customers.

I would like to implement high density multi-channels to economize my rack system.

I wonder. Could I use an optical switch by a network controlled ON/OFF switch?

I would like to make a specific alarm signal become a trigger.



IX Provider

Telecom Provider



Operation and Maintenance Company



Can this be used as a large-scale matrix switch in verification experiments for my research?





Just leave it to us! The new model base unit NSW-BU-02 is enhanced to accommodate a wide variety of customizing in order to respond to your needs!

Service Provider

not only optical fiber but

RJ-45 metal cable as well.

Research Institute



Network Equipment Redundancy

Automatically detecting failures and automatically switching to backup systems greatly improve the availability and reliability of your facilities.



Transmission Pathway Redundancy

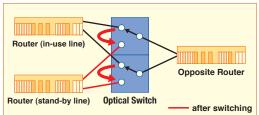
When deterioration of optical power in the transmission pathway is detected, switching is automatically performed, improving the availability and reliability of the transmission line. Switching back after restoration is also simple and safe.



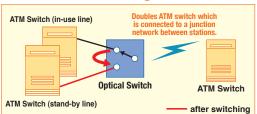
Appliance Add Bypass

Connecting and disconnecting appliances, such as networks, firewalls and bandwitdth control equipment, can be done at high speed.

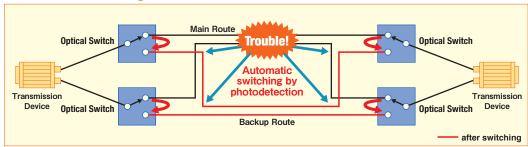
■ Router Doubling



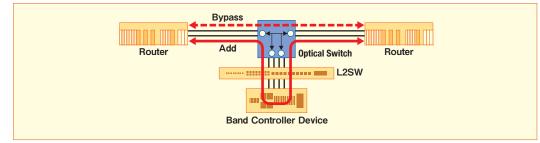
■ ATM Switch Doubling



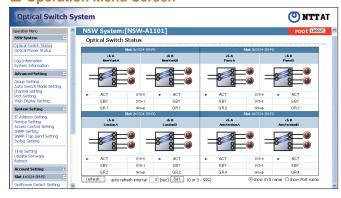
■ Backbone Doubling



■ Appliance Add Bypass



■ Operation Menu Screen



■ Product Specifications: Base Unit (NSW-BU-02)

4
8CH (4 slots fully implemented)
Rack Mount 1U Width 480 x Depth 405 x Height 44mm*1
AC 85~265V
40W≧
0~40°C
15~85% (non condensing)
*1 Not including projections

■ Product Specifications: Module

Types of Optical Switch	1×2, 2×2, 2×4
Optical Switch Operation	Self maintenance type (maintain the power-off state)
Compatible Optical Fibers	SM, MM 50μm
Optical Loss Detection Level	approx40dBm~+10dBm
Switching Protection Time	0-17000msec (1msec scale)
Wave Length	SM:1300nm~1600nm, MM:850nm, 1300nm
Insertion Loss	with automatic switch: 2dB ≥*2 without automatic switch: 1dB≥*2
Optical Connector	SC/SPC, LC/SPC, SC/APC
Notes	*2 Not including connector

■ Product Functions

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 / Remote Confirmation(RADIUS, TACACS+)
High Availability	syslog / 3 types of account authorities / NTP Time / Synchronization / Fail-safe / External redundant power supply / Hot Swap
Notes	3 Functions differ according to the module model. Please contact us for more details.

Notes:

- All company names, product names, etc., indicated herein are trademarks or registered trademarks of each respective company.
- Please understand that all comments and data recorded herein may be subject to change without prior notification.

• Catalog descriptions: as of January, 2012

For more information, please contact

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