

DURAstream™ DS-2408

Dual 10G Bypass Switch with Media Conversion and High Availability

Ensure 100% Network Uptime for DPI, IPS, and all Inline tools

Deploying in-line monitoring devices such as Deep Packet Inspection tools (DPI) and Intrusion Prevention Systems (IPS) once meant introducing a potential point of failure to mission critical links. If the in-line tool slowed down to an unacceptable throughput rate, completely failed, or had to be taken off-line manually for maintenance - there was no convenient way to overcome this risk.

The DS-2408 bypass switch supports both 1G and 10G links and in-line tools. It ensures that critical data still passes, even when in-line devices do not function correctly. Traffic can be automatically diverted away from malfunctioning in-line devices until such devices are operating normally. This alleviates potential issues affecting link behavior caused by the in-line tools. Bypass can also be activated manually, allowing maintenance and upgrades of in-line tools without network downtime. The DS-2408 provides an easy-to-manage external active bypass .

Heartbeat Mode and Passive Bypass

The DS-2408 monitors the health of in-line appliances by sending and receiving heartbeat packets through the tools. If the received heartbeats fall below the user specified interval, failover automatically occurs and the in-line tool is bypassed, using an optical bypass mechanism. In the event of power loss, the DS-2408 uses the same passive bypass mechanism to keep the link up.

High Availability Mode

In High Availability mode, a primary and secondary appliance is installed on a DS-2408. The DS-2408 will swap between the primary and secondary appliance in the event of a loss of heartbeats or link. This allows the services provided by the appliance to be maintained even in the event of an appliance failure.

Dual LINKprotect

LINKprotect allows the DS-2408 bypass switch, which constantly monitors the status of the links to the devices at each link endpoint, to go into a passive bypass mode. This action is performed with an optical MEMS switch, providing nearly instantaneous failover. The user can specify auto recovery, meaning the bypass switch will continue checking for restored link status at specified intervals, or can instead place the bypass switch in manual recovery mode. This mode keeps the DS-2408 in passive bypass mode until the user connects to the device and chooses to return it to the active state. The Dual LINKprotect feature is designed for use in active passive link pairs. It allows all traffic that has been passing through the first pair of network ports on the bypass switch to now be forced over to pass through the second pair. The combination of this with the High Availability feature means that if either link goes down, integrity of data traffic is maintained with full protection.

Robust Management, Security, and Logging

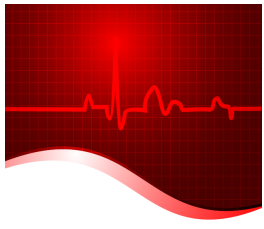
Manage your switch using built-in, easy to use CLI. Supports Remote Management , E-mail notifications, as well as event logging to monitor changes to the DS-2408 and the connected devices.

Highlights

- Optimized reliability of critical network links
- Achieve fail-safe monitoring with in-line monitoring tools such as IPS and DPI
- Improved network uptime and security
- Increased application availability
- Upgrade, maintain, or replace in-line devices without interrupting network operations

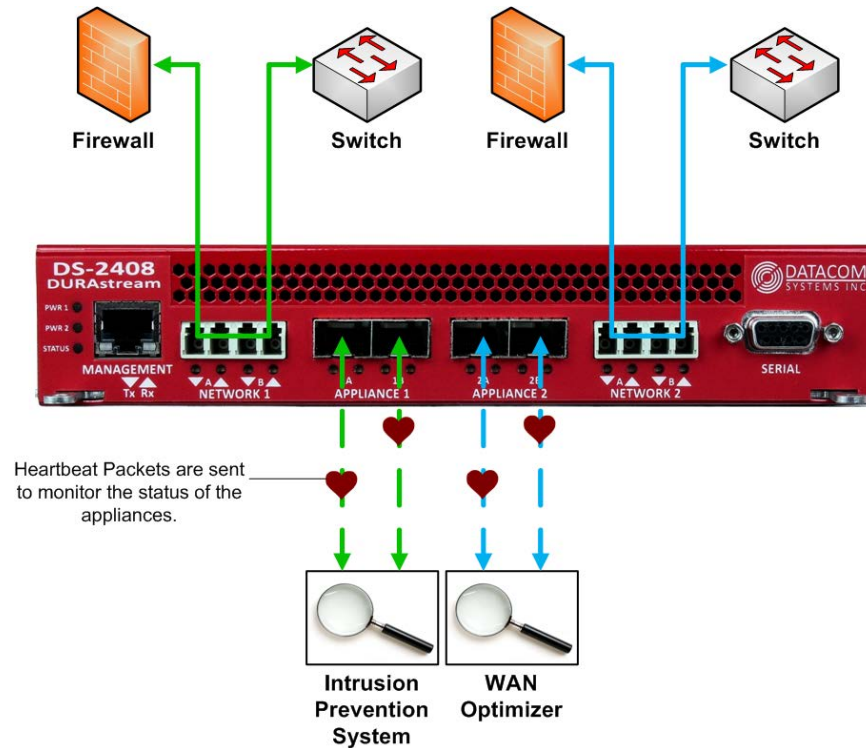
Features

- Passive bypass maintains network integrity during power loss
- Active switching if in-line tool fails-prevents network interruptions
- User configurable Heartbeat Mode monitors link status and health of in-line appliances
- Flexible deployment options including copper, single mode, multimode, and media conversion
- Redundant power supplies with power fail protection ensure monitoring uptime
- Management remotely or locally with extensive CLI -supports SSH
- E-mail event notifications on user-defined events
- NTP Support



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Technical Specifications

PORTS

Network Ports: Four (4) 10/1G Fiber

Appliance Ports: Four (4) SFP+

(Supports SFP+ SR, LR, LRM, SFP SX, LX, BT)

Management Port: RJ45

Console Port: DB9

POWER REQUIREMENTS

Dual Redundant Hot Swappable Power Supplies (Included)

Maximum Power Consumption: Less than 60 Watts

Individual Power Supply Rating: 100-240V ~50-60Hz 7A MAX.

CERTIFICATIONS CE, RoHS

DIMENSIONS (HXWXD)

1.5 x 8.3 x 12.5 in (3.81 x 21.08 x 31.75 cm)

WEIGHT 3.75 lbs (1.7 kgs)

ENVIRONMENTAL

Operating Temperature: 32° to 104°F (0° to 40°C)

Storage Temperature: -22° to 149°F (-30° to 65°C)

Humidity: 5 to 90% non-condensing

WARRANTY

One (1) Year Hardware and Software support included. Premium Support option available

ORDER INFORMATION

Product

DS-2408-5

DS-2408-6

DS-2408-9

Optional Equipment

SFP+-SR/SX

SFP+-LR/LX

SFP-SX

SFP-LX

SFP-RJ45

RMC-2C

Description

Double Segment Bypass Switch w/ 2 inline Appliance Pairs. Installed on 50 micron 10G/1G fiber links.*

Double Segment Bypass Switch w/ 2 inline Appliance Pairs. Installed on 62.5 micron 10G/1G fiber links.*

Double Segment Bypass Switch w/ 2 inline Appliance Pairs. Installed on 9 micron 10G/1G fiber links.*

Description

10G/1G Multimode Fiber Transceiver
10G/1G Singlemode Fiber Transceiver
1G Multimode Fiber Transceiver
1G Singlemode Fiber Transceiver
1G Copper Transceiver

Rack mount for DS-1404, DS-1406, DS-2408. Fits two units in a 1U chassis.

*Models with mixed micron fiber also available.