

DURAstream™ 1406

10G Bypass Switch with Media Conversion and High Availability

Ensure 100% Network Uptime when Deploying In-Line Monitoring Solutions and Intrusion Protection Systems

Automatic Failover = Constant Link State

Deploying in-line monitoring devices such as intrusion prevention systems (IPS) or bridge devices like VPN gateways and firewalls used to mean a potential point of failure on the network.

When one of these devices malfunctioned or became overwhelmed with traffic, network outages could occur. This posed serious challenges when deployed on mission critical links.

The DS-1406 ensures your network's most important data does not fail even when in-line devices do. Deploying a DS-1406 ensures uptime of critical links regardless of in-line device performance by diverting critical network traffic away from malfunctioning in-line devices until such devices are operating normally.

This not only alleviates potential issues with traffic congestion affecting link behavior caused by an IPS, it allows maintenance and upgrades of attached in-line tools without network downtime. The DS-1406 is an easy-to-manage external active bypass providing failover for data monitoring of critical 1 and 10 Gigabit network segments.

Line rate throughput and real-time data forwarding hardware protects data and allows critical voice and data applications to perform uninterrupted and meet high demands for quality and security.

Heartbeat Mode

The DS-1406 10G Bypass Switch can monitor the health of in-line appliances by sending and receiving a heartbeat packet. A user programmable heartbeat packet can be injected into the monitoring port link to determine availability of attached monitoring devices or help determine delay due to high traffic volume.

Passive Mode

In the event of power loss, the switch closes to create a physical connection, which in turn, creates a passive bypass path to help prevent traffic interruption.

High Availability Mode

In High Availability mode, a primary and secondary appliance are installed on a DS-1406. The DS-1406 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.

Robust Management, Security, and Logging

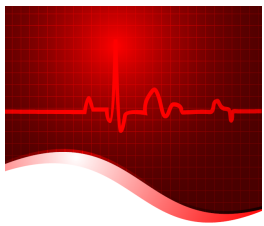
Manage your switch using built-in, easy to use CLI. Supports remote management, E-mail notifications, as well as event logging to monitor changes to the DS-1406 and the connected devices.

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

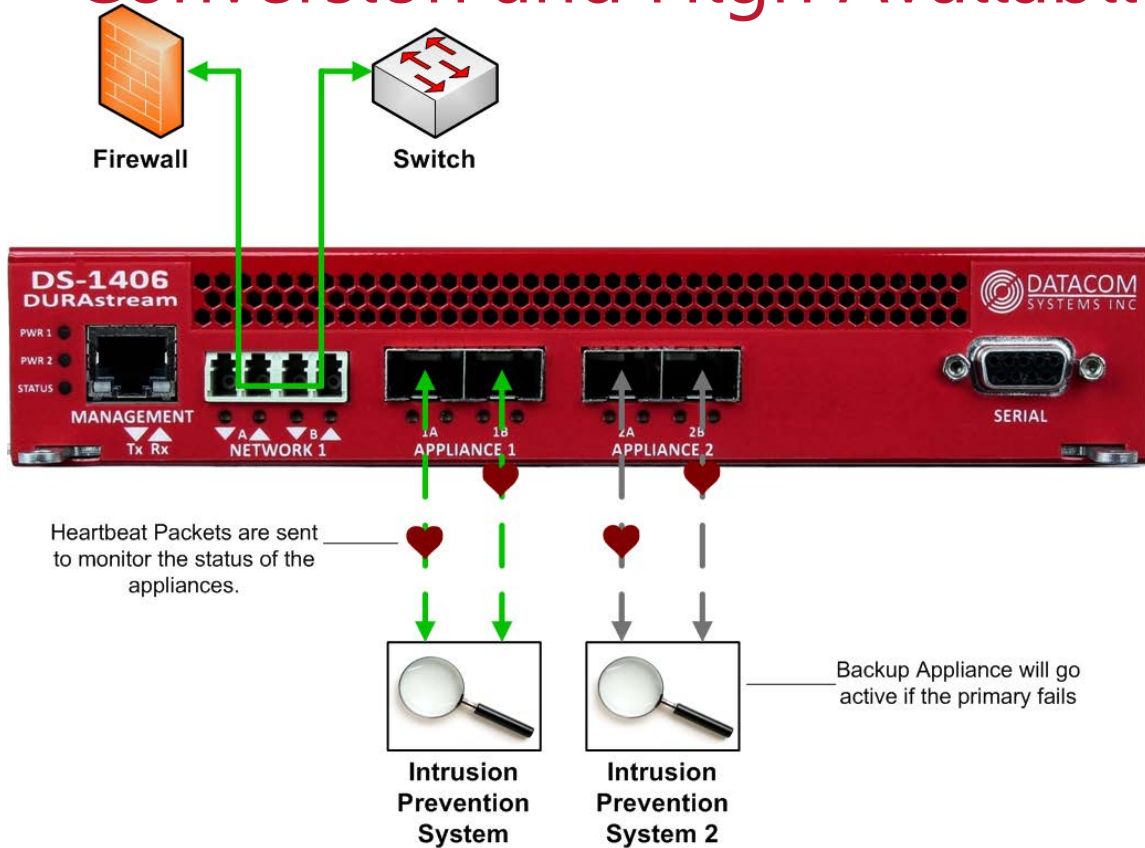
Features

- Passive bypass maintains network integrity during power loss
- Active switching of traffic in case of system failure to prevent network interruptions
- Heartbeat Mode - several user-configurable options to monitor link status and health of inline appliances including bridge devices like firewalls and VPN gateways
- Flexible deployment options - copper, single mode, multi-mode, and media conversion
- Dual redundant power supplies ensure monitoring uptime
- Power fail protection monitors power supplies for power decline or outage and can switch to passive mode
- Manage device remotely or locally with an extensive CLI
- Management port for remote connectivity
- E-mail event notifications on user-defined events
- NTP Support



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Technical Specifications

PORTS

Network Ports: Two (2) 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 90 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 Warranty included. Advanced Replacement-Next Day, third business day options available.

ORDER INFORMATION

Product	Description
DS-1406-5	Single Segment Bypass Switch w/ 2 inline Appliance Pairs. Installed on a 50 micron 10G/1G fiber link.
DS-1406-6	Single Segment Bypass Switch w/ 2 inline Appliance Pairs. Installed on a 62.5 micron 10G/1G fiber link.
DS-1406-9	Single Segment Bypass Switch w/ 2 inline Appliance Pairs. Installed on a 9 micron 10G/1G fiber link.

Optional Equipment

Optional Equipment	Description
SFP+-SR/SX	10G/1G Multimode Fiber Transceiver
SFP+-LR/LX	10G/1G Singlemode Fiber Transceiver
SFP-SX	1G Multimode Fiber Transceiver
SFP-LX	1G Singlemode Fiber Transceiver
SFP-RJ45	1G Copper Transceiver
RMC-2C	Rack mount for DS-1404, DS-1406, DS-2408. Fits two units in a 1U chassis.