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 malfunctions or becomes overwhelmed with traffic, network outages can occur. This presents serious challenges on network 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, creating 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
- Fail-safe monitoring with in-line tools such as IPS and DPI
- Improved uptime and security
- Increased application availability
- Upgrade and maintain in-line tools without network interruptions

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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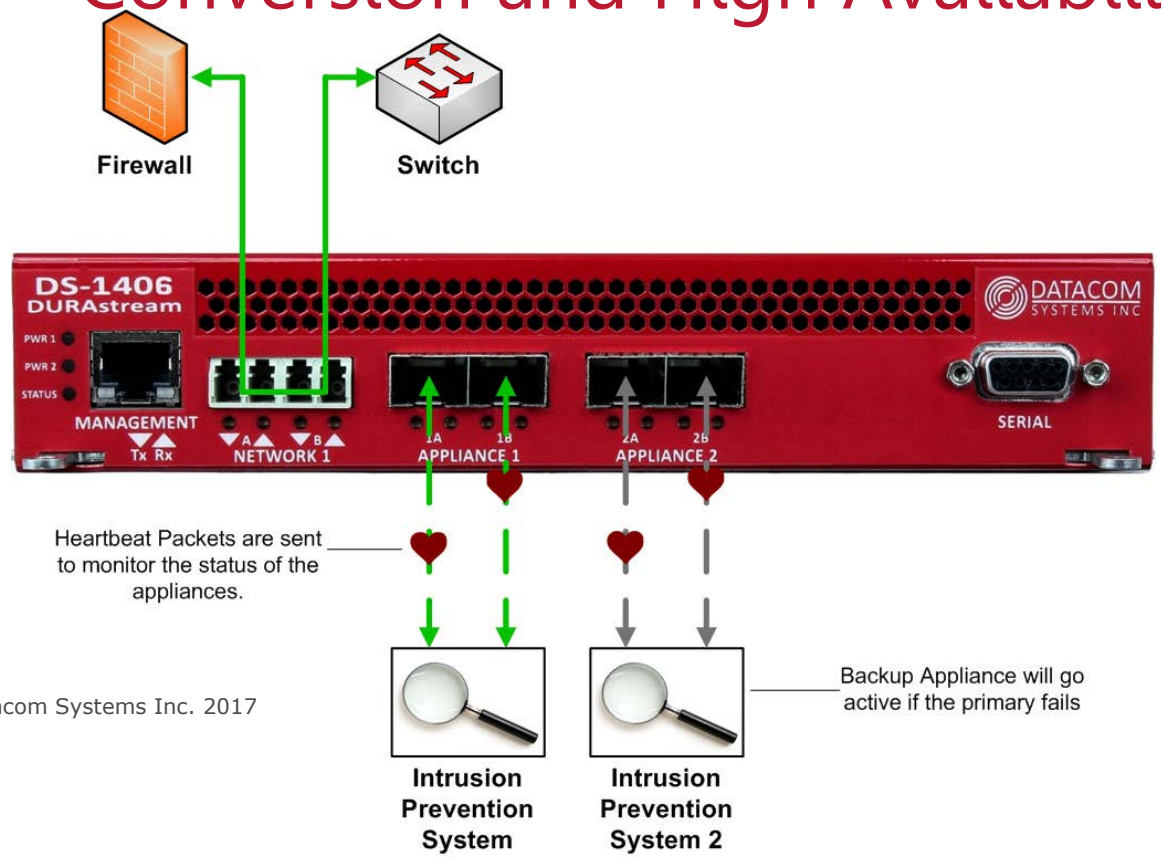

Technical Specifications

PORTS

Network Ports: 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: 32º to 104ºF (0º to 40ºC)
Storage Temperature: -22º to 149ºF (-30º to 65ºC)
Humidity: 5 to 90% non-condensing

WARRANTY

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

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