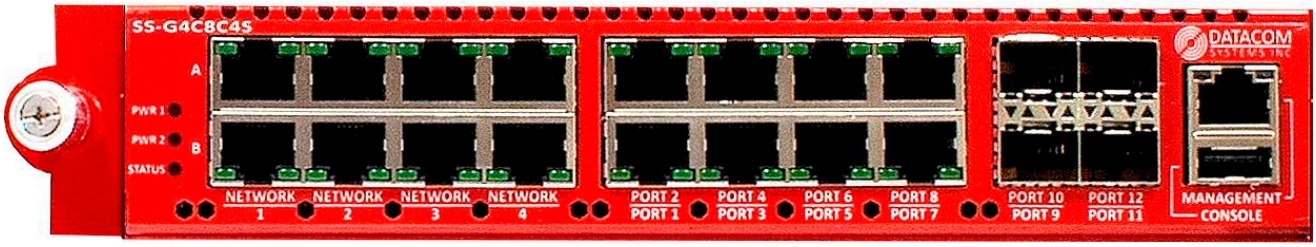
SINGLEstream™ SS-G4C8C4S

Compact Multi-link 100/1000 Copper tap with 10G interconnects and high density mesh capability



Scalable, flexible, powerful, and compact

The SINGLEstream SS-G4C8C4S multi-link copper tap is a compact and flexible solution for tapping, aggregating and distributing data from multiple sources, to monitoring tools. It is a multi-link tap capable of tapping 4 copper 100/1000 links, but the flexible mesh design allows a nearly unlimited number of units to be deployed as a single logical entity of higher port density. The SFP+ ports may be used as 10G copper or fiber interconnects, can serve as additional monitor ports, and support DAC (Direct Attach Cables.)

Data Filtering

Aggregating presents oversubscription and packet loss risk - even with 1G sources sent to 10G tools. Line-rate hardware based L2 to L4 filtering allows users to filter and select only specific traffic of interest.

Aggregation and Replication

Any-to-Any functionality allows aggregation to single tools, and replication to multiple tools. Any of the 8 monitor ports may be used as additional inputs from SPAN ports or other taps, or as outputs to tools. 10G interconnects minimize risk of packet loss between units when a mesh configuration is deployed.

Load Balancing

Session based load balancing allows multiple Ingress ports to be equally distributed among multiple output ports. If any tool capture NIC fails, traffic is automatically redistributed among the remaining Egress ports.

Related Products

This product is also available as model SS-G8C4S - an 8 link tap with 4 monitor ports. Other solutions based on this chassis include a 20 port Network Packet Broker with identical mesh functionality and filtering capability, and single, dual, and quad link bypass switches for protection of in-line tools.

sFlow Support

An 'sFlow Agent' can be configured to run on the SS-G4C8C4S. This agent samples the network traffic and creates sFlow datagrams. The sample datagrams are then to an 'sFlow Collector' elsewhere in the network. The Collector can send the data to an 'sFlow analyzer' The position of the SS-G4C8C4S as a central point through which data from multiple links is passing, makes it an optimal point for the 'sFlow Agent to be enabled, thus sending sFlow datagrams from multiple network devices to the collector.

Optional IPFIX Support

The SINGLEstream SS-G4C8C4S can function as an IPFIX Observation Point, using the IPFIX Metering Process to collect data packets, optionally filters them and aggregates information about these packets. It also operates as an IPFIX Exporter to gather this and other Observation Points together into an Observation Domain. This information is then sent via the IPFIX protocol to a IPFIX Collector.

HIGHLIGHTS

- Consolidate monitoring tools to reduce management expenses and lower tool costs
- Monitor multiple 10/100/1000 copper links simultaneously for more efficient use of 1G/10G monitoring tools
- Fault tolerant - passive bypass feature

FEATURES

- Tap up to eight 10100/1000 copper links in 1RU (requires two units)
- SFP+ ports support 1G/10G fiber, 10/100/1000/10G copper, and DAC
- Load Balancing – Balance sessions across multiple outputs for monitoring redundancy
- Filtering – Line-rate hardware-based filtering can eliminate port oversubscription
- Filter on – Ipv4 Src/Dst Address; MAC Address; Protocol, Port, and Ethertypes (e.g. MPLS, VLAN, IPv6 Src/Dst Address)
- Aggregation/Regeneration – Combine multiple network links or channels into one stream or send copies to multiple tools to share data sources
- SNMP, SYSLOG and email notification mechanisms
- Radius, TACACS+ authentications
- Redundant power sources and fans
- Self-discovery mesh network capable for single control and data plane.
- Sflow and IPFIX capable

DATACOM SYSTEMS INC

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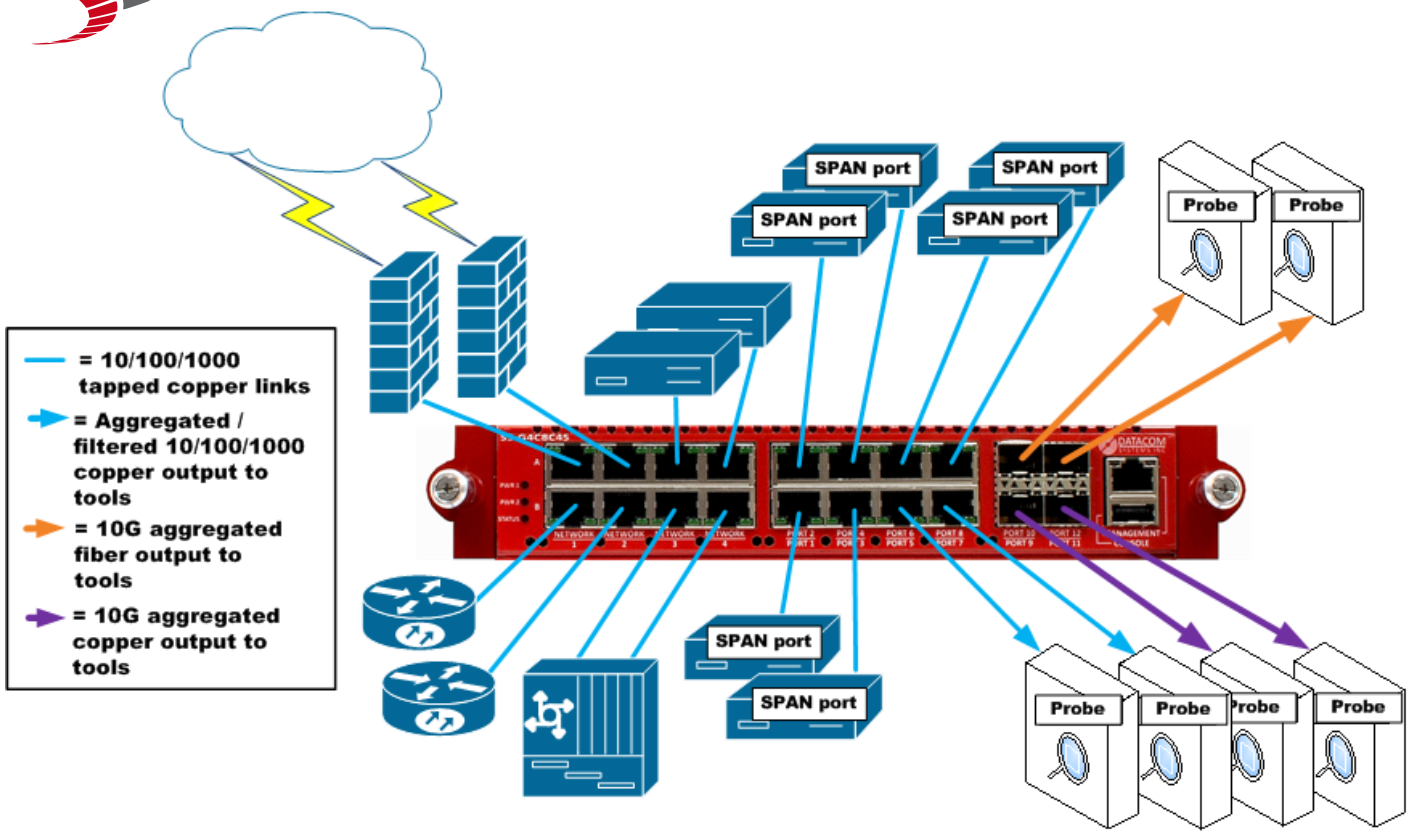

Technical Specifications

Ports
Four (4) copper 10/100/1000 taps (2 ports per tap,) eight (8) copper 10/100/1000-BT and four (4) SFP+ Any-to-Any ports
Management Port: RJ45
Console Port: USB Device Mode

Dimensions (HxWxD)
1.58" x 8.25" x 11.93" (4.01 x 20.96 x 30.30 cm)

Weight: 4.75 lbs (2.2 Kg)

Environmental
Operating Temperature: 32ºF to 131ºF (0ºC to 55ºC) Storage Temperature: -22ºF to 149ºF (-30ºC to 65ºC) Humidity: 5% to 95% non-condensing

Power Requirements:
Two (2) External AC Adapters Redundant Hot Swappable Power Supplies (Included)
Individual Power Supply Rating: 100-240V 50-60Hz 1.3A Maximum Power Consumption: 60 Watts or less

Safety: CB IEC 62368-1

Emissions: FCC, EN, ICES-003

Standards
FCC 47CFR PT 15 SPT B:2017
ICES-003 Issue 6:2016
CENELEC EN 55032:2012

Certifications: CE, RoHS

Warranty
One Year Hardware and Software support included.
Premium Support option available

Filtering
IPv4 Address Sources and Destinations, Subnets ,
MAC Address Sources and Destinations
Ports
Ethertype
VLAN
IPv6 Address Sources and Destinations, Subnets

ORDER INFORMATION

Product	Description
SS-G4C8C4S	Four (4) copper 10/100/1000 taps (2 ports per tap,) eight (8) copper 10/100/1000-BT and four (4) SFP+ Any-to-Any ports
SFP-RJ45	10/100/1000BT copper SFP transceiver module
SFP-RJ45-10G	10G copper SFP+ transceiver module
SFP+SR/SX	10G/1G SFP transceiver module (50 or 62.5 micron 300m)
SFP+ LR/LX	10G/1G SFP+ transceiver module (9 micron 10km)
SFP+DAC(2M)	10G SFP+ 2 meter direct attach passive cable

Other transceivers and DAC cable lengths available on request

RMC-2G	Rack mount chassis - fits two units into 1RU

Find out more at www.datacomsystems.com

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