iLink Aggregator II

Link Aggregation

Cost Effective Link and Tap Aggregation for 10/100/1000 Mbps Links

Keysight's iLink Aggregators are cost effective solutions for the tapping and aggregating of traffic to feed to network monitoring or cyber security tools. They come in two models. The first, LA2-INLN-T, consists of 8 inline copper taps (2 ports per tap) and four SFP+ monitor ports. With this model the inline taps have a "fail to wire" capability that protects traffic flow. The second model, LA2-SPAN-T, has 16 copper input ports and four SFP+ monitor ports. This is designed to be fed from either upstream copper taps or SPAN ports.

The copper ports operate are tri-speed and operate at 10/100/1000 Mbps. The SFP+ monitor ports can operate at either 1G or 10Gbps through the use of appropriate transceivers and support both copper and optical media.

The LA2-SPAN-T model provides Any-to-Any switching and aggregation allowing traffic from multiple input ports to be fed to either a single monitor port or, through replication, to either 2, 3 or 4 monitor ports. The LA2-INLN-T model provides Any-to-Any only on the SFP+ ports. The Tap ports can be configured to replicate and send the received traffic to one or more SFP+ ports.



Figure 1. iLink Aggregator II

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Highlights

- Cost effective tap aggregator designed to combine traffic from multiple taps (either internal or external) to tools
- Supports low-medium speeds that are often not supported by high performance network packet brokers
- Inbuilt taps have ‘fail to wire’ capability
- Tap up to 8 copper links (2 ports per link) or
- Aggregate up to 16 external copper taps or SPAN ports
- Two units can be fitted in one 19 inch 1U space using the optional rack mount kit
- Monitor port of one unit can be connected to another unit’s monitor port to ‘cascade’ two units together and so providing additional aggregation
- Create Filters: based on the following fields: Mac source or destination, IP source or destination, IP protocol, Port, DSCP, Ipv6 source or destination, Ethertype, Vlan.id.
- Load Balancing: create load balancing, to take incoming network traffic and dynamically spread it across multiple output ports.
- Packet Slicing: slice the packets, saving only the first 128 bytes of the packets.
- VLAN Tagging: add VLAN Tagging on packets, applying 802.1Q (Ethertype 8100) header.

Key Features

- Aggregation/Regeneration – Combine multiple network links or channels into one stream or send copies to multiple tools to share data sources
- Filtering - create Filters on incoming traffic to allow or deny packet based on defined filter criteria
- Load Balance incoming traffic on monitor ports
- Packet slicing- Forward only first 128 bytes of the packets to tools
- VLAN Tagging: Add VLAN Tag on incoming packets and forward to Monitor ports.
- Management via simple to use CLI (via SSH/IP or serial port)
- Authentication via Radius and TACACS+
- Alert notifications via SNMP, SYSLOG or email
- Time synchronization of logs via NTP
- Manufacturing Location – USA. Fully TAA compliant

Specifications

Physical specifications

Size and weight	
• 1u High • Dimensions: 11.9W x 8.3D x 1.6H (inches)/ 30.3W x 21.0D x 4H (cm) • Weight: 4.75lbs/2.2 Kg	**MTBF:** **Unit** / **MTBF (hours) @ 25° C** LA2-SPAN-T / 426,832 LA2-INLN-T / 426,832
AC power	• Two individual AC power supplies • AC 100-240VAC 50-60Hz (x2) 1.3A MAX • Maximum heat/power dissipation: 60 Watts or less
Operating specifications	
Temperature	• Operating: 0°C to 55°C (32°F to 131°F) • Storage: -30°C to 65°C (-22°F to 149°F)
Humidity	• Operating: 5% to 55%, (non-condensing)
EMC	• FCC Part 15B - Class A • ICES-003 - Class A
Safety certifications and compliance	• FCC 47CFR PT 15 SPT B:2017 • CENELEC EN 55032:2012 • CE • RoHS

Ordering Information

Keysight iLink Aggregator II

Part number	Description
LA2-SPAN-T	Keysight TAA compliant IlinkAgg2 Span aggregator. 16 copper 10/100/1000 Span ports + 4 SFP+ ports (require additional transceivers). Two (2) External AC Adapters Redundant Hot Swappable Power Supplies (Included)
LA2-INLN-T	Keysight TAA compliant IlinkAgg2 Span aggregator. 8 inline copper 10/100/1000 Taps (2 ports per Tap) + 4 SFP+ ports (require additional transceivers). Two (2) External AC Adapters Redundant Hot Swappable Power Supplies (Included)
RK-LA2-2	Keysight 1U rack mount kit for IlingAgg2 – fits up to two (2) IlinkAgg2 (LA2-SPAN-T or LA2-INLN-T)

Compatible Keysight Transceivers

Part number	Description
SFP-PLUS-SR-XCVR-T	Keysight, TAA compliant, SFP+ 10GBASE SR pluggable optical transceiver, MMF (multimode fiber), 850nm, 300m reach, LC (948-0048)
SFP-PLUS-LR-XCVR-T	Keysight, TAA compliant, SFP+ 10GBASE LR pluggable optical transceiver, 1310nm, SMF (single mode fiber), 10km reach, LC (948-0057)
SFP-SX-I-XCVR-T	Keysight, TAA Compliant, Industrial temperature rate 1G SX transceiver (995-0061)
SFP-LX-I-XCVR-T	Keysight, TAA Compliant, Industrial temperature rate 1G LX transceiver (995-0060)
SFP-CU3-XCVR-T	Keysight, TAA compliant, SFP-T 1GBASE pluggable copper transceiver, 100m reach, RJ45 (995-0056)

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