

# Ixia Copper Tap Port Aggregator TPA2-CU3

The Ixia Copper Tap Port Aggregator, TPA2-CU3, 10/100/1000Mbps is a secure, plug and play aggregation device for a single network link. This aggregation tap technology enables two monitoring devices to simultaneously monitor a full-duplex link – using only one port per device.

Full-duplex monitoring with a network tap typically requires two NICs – one NIC for each side of the tapped full-duplex connection. The TPA2-CU3 addresses the fact that many monitoring systems only offer a single channel NIC, limiting full-duplex visibility. The Ixia Copper Tap Port Aggregator regenerates the aggregated data stream and sends all aggregated data out two passive monitoring ports.

Mode switchable, the TPA2-CU3 can run in either Aggregation Mode or Non-Aggregation Mode. In Aggregation Mode the TPA2-CU3 sends copies of the aggregated traffic through two monitoring ports, allowing for a primary and secondary tool. The TPA2-CU3 scans incoming traffic from the network ports on a first-in-first-out basis. The scan rate is optimized to ensure that no packets are dropped, as long as the sum of data rates on the network ports does not exceed the monitoring port capacity of 1 Gbps.

In Non-Aggregation mode, the TPA2-CU3 operates in half duplex mode, where Monitor Port A will transmit traffic received on Network Port A, and Monitor Port B will transmit traffic received on Network first-in-first-out basis. The scan rate is optimized to ensure that no packets are dropped, as long as the sum of data rates on the network ports does not exceed the monitoring port capacity of 1 Gbps.

In Non-Aggregation mode, the TPA2-CU3 operates in half duplex mode, where Monitor Port A will transmit traffic

## Highlights

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- Copper 10/100/1000Mbps
- 2 network ports 2 monitoring ports
- Power Over Ethernet support
- Auto Speed Negotiation
- Secure monitoring no IP address is needed for the tap or monitoring device keeping it isolated from external threats
- Mode Switchable Aggregation Mode (full duplex) and Non Aggregation Mode (half duplex)
- Passes all traffic (including errors) from all layers
- Redundant power ensures monitoring uptime

received on Network Port A, and Monitor Port B will transmit traffic received on Network Port B. In non-aggregation mode, the TPA2-CU3 operates at full line rate. The TPA2-CU3 supports Power Over Ethernet (POE) on both Network Ports A and B.

For extra uptime protection, the TPA2-CU3 is supplied with redundant power connections. Should the primary power source fail, the Tap automatically switches to the backup power source. Should both input power sources fail or be removed, the TPA2-CU3 will still pass traffic between its network ports

## KEY FEATURES:

- Secure tap - No way for the device to become compromised or be brought down by external threats
- Fail to wire - Relays fail open, allowing traffic to flow even in a power outage
- Mode Switchable - Port Aggregation (full duplex) or Non-Aggregation (half duplex)
- Does not modify traffic - tools see real copies of the packets from the network
- Cost effective - avoid costly expenses managing SPAN ports
- POE Support - Supports passing Power-Over-Ethernet over the network ports
- Auto speed negotiation on all ports

## SPECIFICATIONS

TPA2-CU3 SPECIFICATIONS	
Mechanical	<ul style="list-style-type: none"> <li>• Dimensions: 2.7cm x 12.72cm x 12.72cm (1.07 in x 5.0 in x 5.0 in)</li> <li>• Weight: 0.34 kgs (12 oz)</li> <li>• MTBF: 2,404,750 hours</li> </ul>
Ports	<ul style="list-style-type: none"> <li>• Network: Two (2) 10/100/1000 Mbps Network ports (RJ45)</li> <li>• Monitor: Two (2) 10/100/1000 Mbps Monitor ports (RJ45)</li> </ul>
Operating	<ul style="list-style-type: none"> <li>• Operating Temperature: 0°C to 40°C</li> </ul>
Environment	<ul style="list-style-type: none"> <li>• Storage Temperature: -30°C to 65°C</li> <li>• Relative Humidity: 5% min, 90%max, non-condensing &lt; 25BTU/h</li> </ul>
Power	<ul style="list-style-type: none"> <li>• Two external redundant AC power adapters included</li> <li>• Input: 100-240VAC, 50-60Hz, Max. 800mA at 120VAC</li> <li>• Output: 5V, 4A</li> </ul>
Connectors	<ul style="list-style-type: none"> <li>• (2) RJ45, 8-pin connectors (Monitor Ports)</li> <li>• (2) RJ45, 8-pin connectors (Network Ports)</li> </ul>
Certifications	<ul style="list-style-type: none"> <li>• CE, RoHS, CAN ICES-3 (A)/NMB-3(A), FCC Class A, EAC, FAC, BSMI, SII, MoED</li> <li>• Assembled in the USA</li> </ul>

## ORDERING INFORMATION

### **TPA2-CU3**

Ixia Port Agg, Inline, Copper, 10/100/1G w/switchable Aggregation Mode (955-7301)

### **RK-TPA2-3TAP**

Ixia 3-TAP 1U Rack Mount Bracket, holds up to three TPA2-CU3 taps (955-8034)

Dimensions: 1.725" H x 10.00" W x 6.25" D (44mm H x 483 mm W x 159 mm D)

Unit Weight: 3 lbs (1.36 kg)

Shipping Weight: 6 lbs (2.72 kg)

### **RK-TPA2-ADAPT**

Ixia RK-TPA2-ADAPT Rack mount adapter allows the TPA2-CU3 to be mounted into an RK-ITP2 rack mount (955-8033)

Dimensions: 1.35" H x 8.725" W

Learn more at: [www.keysight.com](http://www.keysight.com)

For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office. The complete list is available at: [www.keysight.com/find/contactus](http://www.keysight.com/find/contactus)

