

# AggregatorTAP: Data Diode

Secure Network and SPAN Links with Hardware-enforced Perimeter Protection



Maintain network integrity for industrial network monitoring without exposing additional risk from remote attacks, DDoS attacks, malware, ransomware from external networks.

AggregatorTAP: Data Diodes provide network traffic for out-of-band monitoring, specifically designed not to send traffic back onto the network. These purpose-built network hardware devices enforce one-way data flow from multiple network segment to a monitoring destination, with physical hardware separation, guaranteeing protection of critical digital systems, such as industrial control systems (ICS), from inbound cyber threats.

Data diodes can be found most commonly in high security environments, such as federal defense and critical infrastructure, where they serve as connections between two or more networks of differing security classifications. This technology can be found at the industrial control level for such facilities as nuclear power plants, power generation and safety critical systems like railway networks.

## Key Features •







- Provide 100% secure full duplex traffic visibility
- Maintain network integrity for industrial network monitoring without exposing additional risk
- Protect the source of data streams between network segments that have different security requirements
- Aggregate up to 4 TAP links to 1 or 2 monitoring ports
- Aggregate up to 8 SPAN Ports to 1 or 2 monitoring ports
- Supports tap 'breakout,' aggregation, regeneration / SPAN mode
- Physical hardware separation guarantees unidirectional traffic between network segments
- Supports 10/100/1000M (1G)
- Link Speed Synchronization
- Link Failure Propagation (LFP)
- Supports jumbo frames
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- Passes physical errors
- 100% secure and invisible; no IP address, no MAC address; cannot be hacked
- Dual internal AC or DC power supplies
- DIN Rail mount and Industrial accessories available
- Made, tested and supported in the USA

## APPLICATIONS

- Unidirectional Network & Application Monitoring
- Unidirectional Network & Application Analysis
- Unidirectional Network & Application Performance
- Breakout Mode is ideal when utilization is very high and packet loss is not an option.

## SOLUTIONS:

Data Diode TAPs are ideal for:

-  Intrusion Detection Systems
-  Application Performance Monitoring
-  Packet Capture
-  Deep Packet Inspection
-  Network Analyzer
-  Forensics

## Competitive Edge •

- Hardware-based unidirectional plug & play visibility
- Rugged steel design
- Tested and Certified



## Have Questions?

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Design-IT Demo  
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# AggregatorTAP: Data Diode

10/100/1000M (1G) | 4:1 TAP Aggregation | 8:1 SPAN Aggregation | Data Diode

Model #	Network Speed	Network	Monitor	Passive	Data Diode	Breakout	Aggregation	Regeneration	Power
1U Rack Mount Kit included - Holds (2) INT1G10CSA									
INT1G10CSA	10/100/1000M (1G)	8 Copper RJ45	2 SFP	Failsafe Design	Yes	Yes	Yes	Yes	AC
INT1G10CSA-DC	10/100/1000M (1G)	8 Copper RJ45	2 SFP	Failsafe Design	Yes	Yes	Yes	Yes	DC
INT1G10CSASP	10/100/1000M (1G)	8 Copper RJ45	2 SFP	-	Yes	No	Yes	Yes	AC
INT1G10CSASPDC	10/100/1000M (1G)	8 Copper RJ45	2 SFP	-	Yes	No	Yes	Yes	DC

## Additional Specifications

**Dimensions** (HxWxD): 1.15" x 3.9" x 6.5"  
(29.21mm x 99.06mm x 165.10mm)

**Weight:** 0.7 lbs (0.3175 kg)

**Ambient Temperature:** 0C to +40C / +32F to +104F

**Storage Temperature:** -20C to +70C / -4F to +158F

**Voltage:** 5VDC

**Current (nominal):** 1.6 Amps

**Maximum consumption:** 8 Watts

**Humidity:** 90% non-condensing

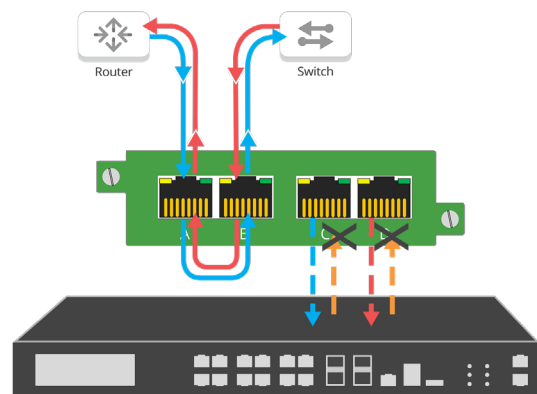
### Safety Note:

Earth ground must be supplied through the AC power cord.

Allow sufficient space in the mounting rack to remove the power cord for disconnection.

This unit has redundant power supplies. Please disconnect both power supplies before servicing.

## Network Flow



Data Diode TAP "Breakout" Mode