

Data Diode Network TAP

Secure Network 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.

Data Diodes Network TAPs 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 a 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
- 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
- Supports jumbo frames
- Passes physical errors
- 100% secure and invisible; no IP address, no MAC address; cannot be hacked
- Plug & Play easy installation, no configuration
- 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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Data Diode Network TAP

10/100/1000M (1G) | Data Diode | TAP Visibility

Model #	Network Speed	Network	Monitor	Passive	Data Diode	Breakout	Aggregation	Regeneration
RMP-1U				1U Rack Mount Kit - Hold up to 4 Portable TAPs				
Model# + DIN_MOUNT				Select the Garland Technology portable network TAP model # and add "DIN_MOUNT." e.g., P1GCCFEDIN_MOUNT				
PT100	10/100M	2 Copper RJ45	2 Copper RJ45	Failsafe Design	Yes	Yes	No	No
P1GCCB	10/100/1000M (1G)	2 Copper RJ45	2 Copper RJ45	Failsafe Design	Yes	Yes	No	No
P1GCCAS	10/100/1000M (1G)	2 Copper RJ45	2 Copper RJ45	Failsafe Design	Yes	Yes	Yes	Yes
P1GMCA	1G	2 SX Multi-mode Fiber-LC	2 Copper RJ45	Passive	Yes	Yes	Yes	Yes
P1GMSA	1G	2 SX Multi-mode Fiber-LC	2 SFP	Passive	Yes	Yes	Yes	Yes
P1GSCA	1G	2 LX Single-mode Fiber-LC	2 Copper RJ45	Passive	Yes	Yes	Yes	Yes
P1GSSA	1G	2 LX Single-mode Fiber-LC	2 SFP	Passive	Yes	Yes	Yes	Yes
P100FXCA	-	2 100Base-FX	2 Copper-RJ45 100/1000M (1G)	Passive	Yes	Yes	Yes	No

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

PT100 Dimensions (HxWxD): 1.15" x 3.9" x 3.84"
(29.21mm x 99.06mm x 97.6mm)

Weight: 0.45 lbs (0.204 kg)

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

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

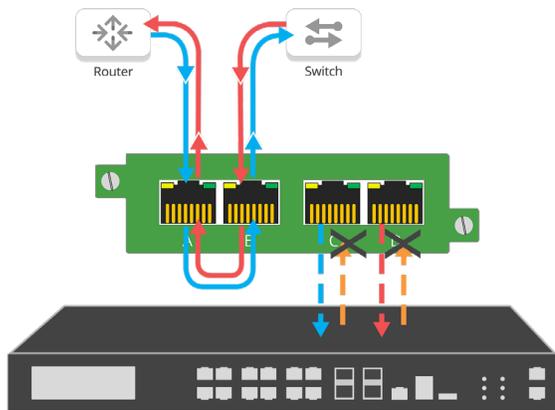
Voltage: 5VDC

Current (nominal): 0.36 Amps

Maximum consumption: 1.8 Watts

Humidity: 90% non-condensing

Network Flow



Data Diode TAP "Breakout" Mode



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