

IntellaFlex

Copper Bypass TAP Appliance

Fail-safe inline protection for network monitoring



FEATURES

- High-availability 1RU standalone appliance with dual power supplies
- High density fail-safe monitoring of up to five inline security and monitoring tools
- Five 100M/1G copper network ports paired to five 100M/1G/10G SFP appliance ports
- Heartbeat detection and automatic failover recovery
- Data aggregation, filtering and load balancing
- Configuration and management made easy with WebXR graphical user interface

Strong Security and High Network Availability

As network operations incorporate more inline security devices such as Intrusion Prevention Systems (IPS), Data Loss Prevention (DLP) and firewalls, they increase the risk of network traffic loss or downtime when these inline tools fail.

Copper Bypass TAP Keeps Traffic Flowing

APCON's Copper Bypass TAP combines an inline fail-safe security solution and intelligent network monitoring in one appliance to protect traffic flow and increase visibility. The Copper Bypass TAP can be installed directly on the network and connected to any security or monitoring tool that receives live network traffic. The Copper Bypass TAP maintains high network availability by allowing traffic to flow unimpeded when inline security tools suffer a failure, degrade performance or require maintenance.



Higher Reliability for Critical Network Links

The Copper Bypass TAP provides heartbeat functionality to automatically detect a tool failure. It does this by inserting heartbeat packets into the network traffic going to the network tool from both directions. The Copper Bypass TAP then continually monitors the attached devices at very short intervals. If the expected number of packets are not returned within the specified interval, the blade assumes that a failover condition has occurred and quickly switches to Bypass mode. While in Bypass mode, network traffic is diverted around the unresponsive tool reducing the risk of lost network data. If the condition that caused the port to switch to Bypass mode corrects itself within the specified timeframe, then the mode could automatically switch back to the normal Monitor mode.



Monitor mode – network traffic going to the tool from both directions, heartbeat detected.

Failover condition – faulty heartbeat link detected and switches to Bypass mode.

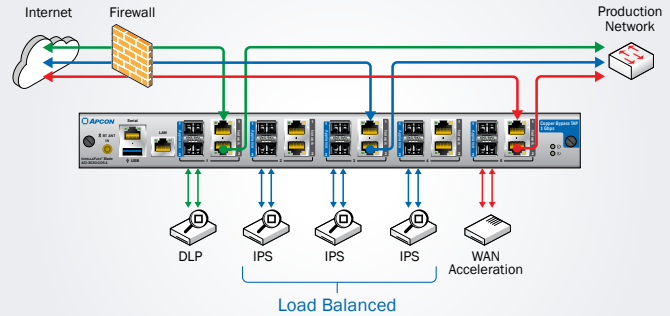
High Density Bypass TAP

APCON's Copper Bypass TAP provides five individual bypass TAPs to connect up to five inline network security tools in a

single standalone unit. The five TAPs operate independently allowing individual tools to be configured, maintained or removed without affecting operations of the remaining TAPs.

Load Balancing Supports Tool Redundancy

A load balancing use case might include a network that is distributing traffic across multiple IPS security appliances. If one system goes down, the Copper Bypass TAP will redistribute traffic across the remaining systems. This results in minimal loss of network traffic and recovery would be automatic.



Remote Management

The WebXR graphical user interface lets the user monitor a bypass TAP, as well as the status of the attached tools and links. And you can make changes without having a technician on site. This is especially useful for updating with the latest software updates. APCON's TitanXR provides centralized management of multiple devices.

Copper Bypass TAP Appliance Specifications

Network Ports	5 pairs 100M/1G Copper Bypass TAPs Bypass mode: traffic bypasses the appliance Monitor mode: traffic is sent to the appliance for analysis
Appliance Ports	5 pairs 100M/1G/10G Ethernet (SFP/SFP+) Enable up to 5 inline appliances Enable up to 10 monitor ports
SFP/SFP+	100MBase-FX, 1000BASE-T/SX/LX, 10GBASE-SR/LR
Heartbeat	Monitors appliance health Bypass when Heartbeat fails Select interval 100 ms to 5 sec Select missed Heartbeat packet threshold
Management	Easy-to-use WebXR GUI plus CLI 1 LAN management port 1 CLI management port HTTPS and SSH for secure access TACACS+, Radius and LDAP authentication
IntellaFlex Features (unpaired appliance ports only)	Aggregation, Filtering, Load Balancing, Trunking, Any-to-Any and Multicast Connections, Multi Stage Filtering, and Port Tagging

Size (H×W×D)	1.75 × 17.2 × 25.0 in (4.5 × 43.7 × 63.5 cm) 1RU
Weight	21 lbs (9.53 kg)
Power	200W / 680 BTU/hr without transceivers*
Power Supply	AC: 100 to 240 VAC, 50 to 60 Hz DC: -48 VDC to -60 VDC, 16.5A maximum Dual redundant power supplies available
Operating Temp	32 to 122 °F (0 to 50 °C)
Storage Temp	-40 to 158 °F (-40 to 70 °C)
Relative Humidity	0-90% non-condensing
Safety	UL 60950, EN 60950, CSA C22.2 60950
EMC	EN 55022, EN61000, FCC part 15, ICES 003
Compliance	CE mark and ROHS compliant

Ordering / Part Number

ACI-3430-C05-AC-1	IntellaFlex Copper Bypass TAP Appliance [AC,DC] indicate AC or DC power
ACI-3430-C05-DC-1	

* Power requirement with transceivers will vary based on the actual transceivers being used, refer to transceiver data sheet for exact calculation.