

External PowerSafe TAP 3296

Flexible, Low Cost Active Inline Bypass for nGenius 7000 Series Packet Flow Switch

HIGHLIGHTS

High Density

- Up to 4 field-replaceable modules in 1RU
- Up to 8 full bypass segments
- Each segment includes two network ports

and 2 appliance/monitor ports

Failsafe Connectivity

- System heartbeat monitoring
- Configurable fail open or fail forward per segment, upon loss of heartbeat or loss of EPT power

Wide Range of Network Links & Rates

- Copper, fiber singlemode and fiber multimode
- Copper speeds: 1G, 10G
- Fiber speeds: 1G, 10G, 25G, 40G, 100G
- No transceivers needed on the EPT

Appliance Connectivity

- Use with all nGenius 7000 series packet flow switches
- Connects via USB cable

Management and Heartbeat

- Managed and monitored seamlessly via PFOS running on the nGenius 7000 series and/or via PFS Fabric Manager

Power and Cooling

- Powered via USB cable to nGenius 7000 series
- No power supplies or fans required

Product Description

The External PowerSafe TAP (EPT) 3296 is a low-cost, flexible solution to provide active inline security, with bypass protection to guard against power failure.

The EPT supports a wide variety of network links, connected to the nGenius 7000 series packet flow switch. Management, power and heartbeat are maintained via USB cable to the nGenius 7000 series. Management is done via the PFOS management software on the nGenius 7000, seamlessly integrated with all other PFOS functions, and/or via PFS Fabric Manager.

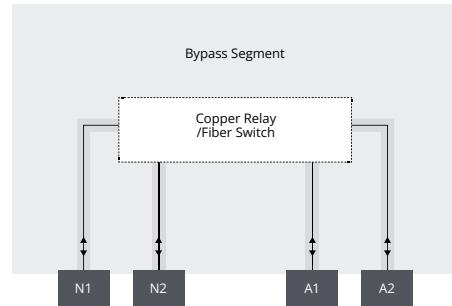
External PowerSafe TAP 3296 Modules:

| Network Link | Type | Connector | Segments per module |
|------------------------------------|-----------------|-----------|---------------------|
| 1G | Copper—Copper | RJ45—RJ45 | 2 2 2 2 |
| 1/10G | SM—LX/LR/LR4 | LC—LC | |
| 1/10/25/40/100G | MM 50µm SX/SR | | |
| 1/10/25/40/100G and BiDi (40/100G) | | | |
| 1/10G | MM 62.5µm SX/SR | LC | 2 |
| 40/100G | MM SR4 | MPO | 1 |



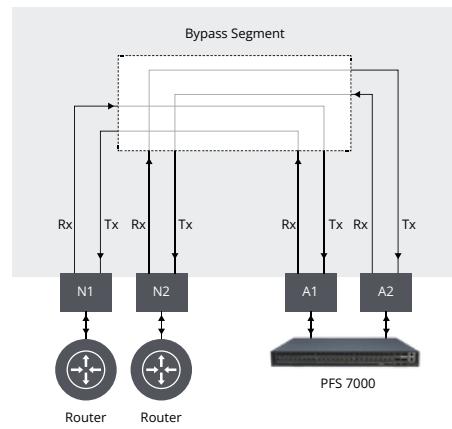
Bypass Segment

A full bypass segment comprises two network ports and two appliance ports. Type of ports varies by module.



Normal Active Mode

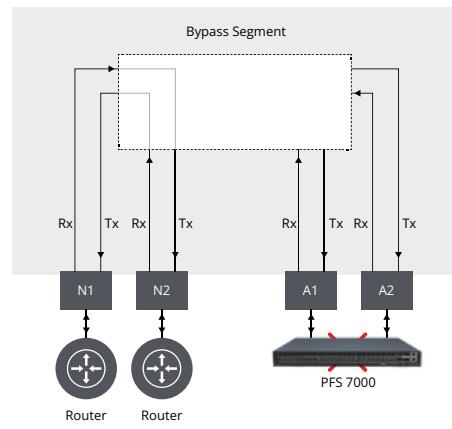
In normal active mode, traffic from one side of the network is forwarded to the nGenius 7000 series and from there to the inline tool(s), then back through the packet flow switch to the other side of the network.



Bypass Mode

In case of loss of heartbeat or EPT/PFS 7000 power failure, a segment configured as "Poweroff Mode = Bypass" (fail open) will cause traffic to bypass the PFS 7000 and continue on the network.

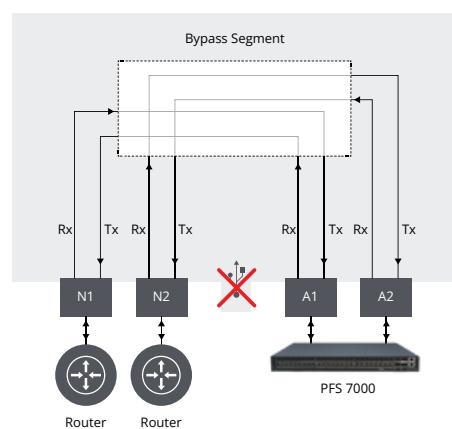
This is also the behavior of a segment with Manual Mode = Bypass.



Forward Mode

In case of loss of heartbeat or EPT/PFS 7000 power failure, a segment configured as "Poweroff Mode = Forward" will cause traffic to continue to be forwarded to the PFS 7000, just as normal active mode. However, the effective result depends on the nature of the failure. If the heartbeat or EPT power has failed (for example, due to USB cable removal), but PFS 7000 is still running, then traffic will continue to flow as per normal active mode. However, if the PFS 7000 has failed, then the system will behave as "fail-closed", and all traffic will be halted.

This is also the behavior of a segment with Manual Mode = Forward.



SPECIFICATIONS

| | |
|--------------------|--|
| Dimensions | 1.75in (44.5mm) Height 17.33in (440mm) Width 10.07in (256mm) Depth |
| Weight | 8.8lb (3.39kg), fully configured |
| Operating Humidity | 5-95% RH, non-condensing |
| BTU/Hr | 8.53 |
| Fan-Less | Passive cooling |
| Altitude | 15,000 ft (4572m) |
| Max Power | 2.5 Watts |
| DC | 5V DC USB |

| Module Type | Max Insertion Loss (dB) | Max Failover Time (msec) |
|----------------------|-------------------------|--------------------------|
| LC Fiber (MM and SM) | 2 3 2.25 2.29 | 8 8 4 10 |
| MPO Fiber (MM) | | |
| 1G Copper | | |
| 10G Copper | | |

| SKU | Description |
|-----------------|---|
| 3296-MN | External PowerSafe TAP 3296 Chassis, USB power, up to 4 modules (not included) |
| 3296-SG-1TX-2B | External PowerSafe TAP 3296 Module, 1G Copper, RJ45 CAT5e, 2 segments |
| 3296-SG-10TX-2B | External PowerSafe TAP 3296 Module, 10G/1G Copper, RJ45 CAT6a, 2 segments |
| 3296-SG-SM-2B | External PowerSafe TAP 3296 Module, 1G/10G/25G/40G/100G SM LC, 2 segments |
| 3296-SG-MM-2B | External PowerSafe TAP 3296 Module, 1G/10G/25G/40G/100G BiDi 50um MM LC, 2 segments |
| 3296-SG-MM5-2B | External PowerSafe TAP 3296 Module, 1G/10G 62.5um MM SX/SR LC, 2 segments |
| 3296-SG-MMPO-1B | External PowerSafe TAP 3296 Module, 40G/100G MM SR4 MPO, 1 segment |

| Safety | Certifications |
|--|---|
| <ul style="list-style-type: none"> UL/CUL 62368-1, EN 62368-1, IEC 62368-1 CB Scheme with all national differences | <ul style="list-style-type: none"> North America (NRTL) European union (EU) VCCI (Japan) Korea (R-R-nNs-3296-MN) China (Exempt) Taiwan (BSMI) Mexico (NOM) 2014/35/EU Low Voltage Directive 2014/30/EU EMC Directive 2011/65/EU RoHS Directive 2012/19/EU WEEE Directive |



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