

FAIL-SAFE IN-LINE PROTECTION FOR UP TO 4 x 10G NETWORK LINKS

The F4-10G-BP Bypass TAP allows the monitoring of up to 4 in-line 10G links, and keeps the network link operational even when the connected security or monitoring tools become unavailable.

It represents a fail-safe solution that actively checks their availability by sending heartbeat packets. If the tools' availability is compromised in any way, the TAP automatically switches to a bypass mode, maintaining the network link up until the issue is fixed.

Similarly, the F4-10G-BP also allows network engineers to manually bypass the in-line tool, to keep the network fully operational during maintenance and troubleshooting.



TECHNICAL SPECIFICATIONS

CONNECTORS

2 x MPO (MM&SM) 2 x QSFP+ 2 x RJ45 8 pins 2 x 12 VDC

SPEED

4 x 10 Gbps

WEIGHT

1360 g — 2.99 lb

COMPLIANCE

RoHS – CE

LEDs

10 x Link/Activity 2 x Power 1 x Bypass 1 x Fan

DIMENSIONS (WxDxH)

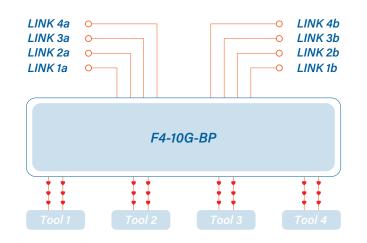
120 x 315 x 40 mm — 4.7 x 12.4 x 1.6 in

POWER CONSUMPTION

45 W

ACCESSORIES

2 x 100–240 VAC to 12 VDC PSU included



FEATURES

Protects the network link availability
 Up to 3 units in 1U rack space
 Centralized management
 Bidirectional and configurable heartbeats
 Supports link failure propagation (LFP)
 SNMP V2c and SNMP V3 supported
 No point of failure
 Redundant powering
 Secure and completely invisible to the network
 Remote management through SSH, Web Interface (HTTPS) and SNMP Browsers

LINK FAILURE PROPAGATION

Profitap Bypass TAPs transmit link failure errors between ports, allowing the network to activate a redundant path, while the TAP stays available for auto-negotiation.

LFP ensures less downtime, and is essential for high availability networks.

ORDER REFERENCES

Single-Mode 9/125 µm:	F4-10G-BP-S
Multi-Mode 50/125 µm:	F4-10G-BP-Z
RACKMOUNT REFERENCE:	ARKB-1U



CENTRALIZED MANAGEMENT

Device Overview & Administration

Information								
Device			Administrator					
ID	F4-10G-BP		Name					
Hardware revision	3		Phone					
Software version	6.1.6	E-mail	E-mail					
Date and time			Network					
Date	21/04/2020		DHCP	Enabled	I			
Time	13:22:06		IP	192.168	.1.64			
Uptime	15M - 46S		Netmask	255.255	.255.0			
			Gateway	192.168	.1.1			
			DNS	192.168	.1.242			
Sensors			Bypass					
Hardware state	ОК							
FPGA temperature	59.68 °C / 139.42 °F			Bypass 1	Bypass 2	Bypass 3	Bypass 4	
Fan state	ОК		Appliance	ок	ОК	ОК	ОК	
Fan speed	15,562 RPM		Bypass	OFF	OFF	OFF	OFF	
PSU 1 state	ок							
PSU 2 state	FAILURE							

Device Configuration

lanual Bypass ON OFF	ON TAP Mode ON	 Physical Bypass ON (fail open) 	In case of heartbeat failure (timeout) Bypass ON Bypass OFF	In case the TAP link is DOWN (# Bypass ON (B Bypass OFF
Source MAC	54:10:EC:6D:21:07	Editing custom packet	Load pa	acket Import raw binary
estination MAC	54:10:EC:6D:19:AC	Load pre-defined packet	Save pa	acket Export raw binary
0000000 0000010 0000020	41 70 72 20 30 36 20 32 3a 35 34 20 46 31 6f 6e 24 62 70 3a 20	1 5f 31 30 47 20 64	61 65 6d 2:54.F	. 2020.08:5 1 100.daem hardware
ffset: 0x0			Payload	size 48 Set 🕀 🕀
eartbeat B				
Source MAC	54:10:EC:6D:19:AC	Editing custom packet	Load pa	acket Import raw binary
Destination MAC	54:10:EC:6D:21:07	Load pre-defined packet	Save pa	soket Export raw binary
0000000 0000010 0000020	88 64 11 00 18 b2 00 e3 00 00 00 00 00 00 00 00 00 00 00 00 00	0 00 00 00 00 00 00	οο οο οο π	
offset: 0x0			Payload	size 48 Set 🖸 🕀
eartbeat rate 🛈		10	microseconds	*
eartbeat failure tim	eout ①	15	microseconds	•
eartbeat recovery a	fter (number of packets) 🕕	5		

