NEOXPacketRaven Modular Fiber TAPs

THE KEY TO FULL VISIBILITY OF YOUR NETWORK DATA, BECAUSE YOUR NETWORK SECURITY TOOL IS AS GOOD AS THE DATA SOURCE!

PACKETRAVEN
WATCH YOUR NETWORK!

Fiber TAPs are passive decoupling elements for the secure and reliable tapping of network data in optical networks. These TAPs are looped into the fiber optic line to be monitored and transmit the entire data traffic without interruption.

Our optical TAPs do not require power, they are purely passive components and therefore cannot be detected in the network without expensive measurement equipment. Hackers and other attackers have no chance and because the integrity of the outgoing data remains unaltered due to this tapping method, network TAPs are increasingly used in the areas of network forensics, security and monitoring.

PacketRaven Fiber TAPs are designed for data centers and allow you to equip up to 30 network segments with TAPs using our innovative, modular 1U chassis. They support network speeds from 100Mbps up to 400Gbps.

Without risk, you get permanent network access and provide your monitoring and security tools with 100% reliable network data without introducing a single point of failure.

HIGHLIGHTS
Supported network speeds: 100M, 1G, 10G, 25G, 40G, 50G, 100G, 200G, and 400G
Alternative to SPAN ports - mirrors 100% of traffic including FCS/CRC errored packets that may be dropped by SPANs
Invisible in the network, no IP address, no MAC address, cannot be hacked
No power source required, 100% passive
Guaranteed no package loss
Plug & play, easy installation without configuration
Scalable and modular, supports installation of all TAP models regardless of media type, speed and connector type
Split ratios of 50:50, 60:40, 70:30, 80:20 and 90:10 are supported
Does not cause additional latency
Supported fiber type recognisable by TAP colour - no need to pull out
Assembled, certified and tested in Germany

Connector Colours & Fiber Types

The colours of our connectors allow you to identify the fibre types for which the respective connector is intended:

OS2 = Blue **OM3** = Aquamarine **OM4** = Violet **OM5** = Lime Green

Supported Standards

Here is an excerpt of the standards our **LC Singlemode** Fiber TAPs are supporting:*

- 100BASE-FX
- 1000BASE-EX
- 1000BASE-LX
- 1000BASE-LX10
- 1000BASE-ZX
- 10GBASE-ER
- 10GBASE-EW
- 10GBASE-LR
- 10GBASE-LRM
- 10GBASE-LW
- 10GBASE-ZR
- 10GBASE-ZW
- 25GBASE-ER
- 25GBASE-LR
- 40GBASE-ER4
- 40GBASE-FR
- 40GBASE-LR4
- 40GBASE-LX4/LM4
- 50GBASE-ER
- 50GBASE-FR
- 50GBASE-LR
- 100GBASE-DR
- 100GBASE-ER4
- 100GBASE-FR1
- 100GBASE-LR1
- 100GBASE-LR4
- 200GBASE-ER4
- 200GBASE-FR4
- 200GBASE-LR4
- 400GBASE-ER8
- 400GBASE-FR4
- 400GBASE-FR8
- 400GBASE-LR4-6
- 400GBASE-LR8
- 400GBASE-ZR

Here is an excerpt of the standards our **LC Multimode** Fiber TAPs are supporting:*

- 1000BASE-SX
- 10GBASE-SR
- 10GBASE-SW
- 25GBASE-SR
- 50GBASE-SR

Here is an excerpt of the standards our **MTP®/MPO Multimode** Fiber TAPs are supporting:*

- 40GBASE-SR4
- 100GBASE-SR2
- 100GBASE-SR4
- 200GBASE-SR4
- 400GBASE-SR4.2

* *If you are considering using a standard not listed here, please contact us.*

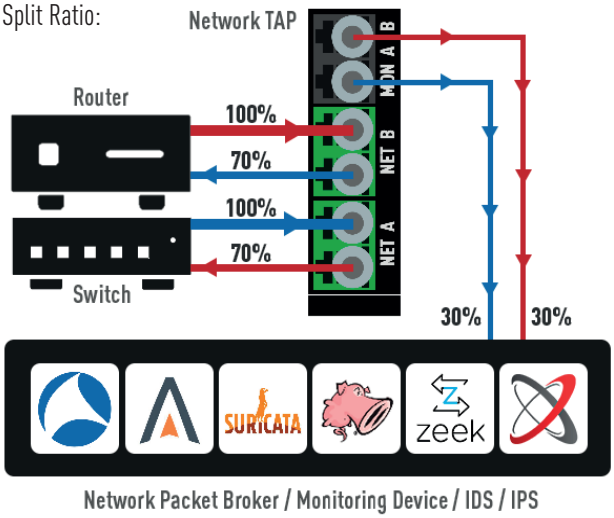
How does a Split Ratio work?

Due to its splitting technique using a prism, attenuations naturally occur which must be taken into account when selecting the TAP.

Fiber TAPs are available in 5 different variations and differ in their split ratio. Available are devices with the "split ratio" 50:50, 60:40, 70:30, 80:20, 90:10.

A typical attenuation value of a 70:30 Fiber TAP is about 2dB on the network side and 6dB on the monitoring ports.

Here you can see an example of a 70/30 Split Ratio:



Spezifications & Item Numbers

SUPPORTED MEDIA TYPE		SPECIFICATIONS	
Multimode 850 nm / 1300 nm:	OM1, OM2	Height x Width x Length (Chassis):	4.80 cm x 19.40 cm x 42.50 cm
Multimode 850 nm:	OM3, OM4	Operating Temperature:	-40°C - +85°C
Multimode 850 nm - 950 nm:	OM5	Operating Humidity:	5% - 85%
Singlemode 1310 nm / 1550 nm:	OS1, OS2	Reliability:	GR-1221-CORE

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MAXIMUM INSERTION LOSS			
Split Ratio (more on request)	50:50	60:40	70:30
Multimode OM1, OM2	4.0 dB / 4.0 dB	3.0 dB / 5.0 dB	2.4 dB / 6.3 dB
Multimode OM3, OM4, OM5	3.8 dB / 3.8 dB	2.8 dB / 4.8 dB	2.2 dB / 6.1 dB
Singlemode OS1, OS2	3.4 dB / 3.4 dB	2.5 dB / 4.5 dB	1.7 dB / 5.8 dB

PacketRaven MULTIMODE TAP OPTIONEN

ITEM NUMBER	NETWORK	FIBER TYPE	WAVELENGTH	CONN. NET / MON		SPLIT RATIO	SLOTS NEEDED
PRM-OM3-LL-50	1G/10G/25G/50G	OM3	850 nm	LC	LC	50:50	1
PRM-OM3-LL-60	1G/10G/25G/50G	OM3	850 nm	LC	LC	60:40	1
PRM-OM3-LL-70	1G/10G/25G/50G	OM3	850 nm	LC	LC	70:30	1
PRM-OM4-LL-50	1G/10G/25G/50G	OM4*	850 nm	LC	LC	50:50	1
PRM-OM4-LL-60	1G/10G/25G/50G	OM4*	850 nm	LC	LC	60:40	1
PRM-OM4-LL-70	1G/10G/25G/50G	OM4*	850 nm	LC	LC	70:30	1
PRM-OM5-LL-50	1G/10G/25G/50G	OM5	850 nm – 950 nm	LC	LC	50:50	1
PRM-OM5-LL-60	1G/10G/25G/50G	OM5	850 nm – 950 nm	LC	LC	60:40	1
PRM-OM5-LL-70	1G/10G/25G/50G	OM5	850 nm – 950 nm	LC	LC	70:30	1
PRM-OM4-MM-50	40G/100G/200G/400G	OM4*	850 nm	MTP	MTP	50:50	3
PRM-OM4-MM-60	40G/100G/200G/400G	OM4*	850 nm	MTP	MTP	60:40	3
PRM-OM4-MM-70	40G/100G/200G/400G	OM4*	850 nm	MTP	MTP	70:30	3
PRM-OM5-MM-50	40G/100G/200G/400G	OM5	850 nm – 950 nm	MTP	MTP	50:50	3
PRM-OM5-MM-60	40G/100G/200G/400G	OM5	850 nm – 950 nm	MTP	MTP	60:40	3
PRM-OM5-MM-70	40G/100G/200G/400G	OM5	850 nm – 950 nm	MTP	MTP	70:30	3
PRM-OM4-ML-50	40G/100G/200G/400G	OM4*	850 nm	MTP	LC	50:50	3
PRM-OM4-ML-60	40G/100G/200G/400G	OM4*	850 nm	MTP	LC	60:40	3
PRM-OM4-ML-70	40G/100G/200G/400G	OM4*	850 nm	MTP	LC	70:30	3
PRM-OM5-ML-50	40G/100G/200G/400G	OM5	850 nm – 950 nm	MTP	LC	50:50	3
PRM-OM5-ML-60	40G/100G/200G/400G	OM5	850 nm – 950 nm	MTP	LC	60:40	3
PRM-OM5-ML-70	40G/100G/200G/400G	OM5	850 nm – 950 nm	MTP	LC	70:30	3

** OM3 compatible*

PacketRaven SINGLEMODE TAP OPTIONS

ITEM NUMBER	NETWORK	FIBER TYPE	WAVELENGTH	CONN. NET / MON		SPLIT RATIO	SLOTS NEEDED
PRM-OS2-LL-50	100M/1G/10G/25G/40G/50G/100G/200G/400G	OS2	1310 / 1550 nm	LC	LC	50:50	1
PRM-OS2-LL-60	100M/1G/10G/25G/40G/50G/100G/200G/400G	OS2	1310 / 1550 nm	LC	LC	60:40	1
PRM-OS2-LL-70	100M/1G/10G/25G/40G/50G/100G/200G/400G	OS2	1310 / 1550 nm	LC	LC	70:30	1

PacketRaven CHASSIS

ITEM NUMBER	DESCRIPTION
PRM-CH-1U30	Supports installation of up to 30 single TAP modules (30 slots)

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