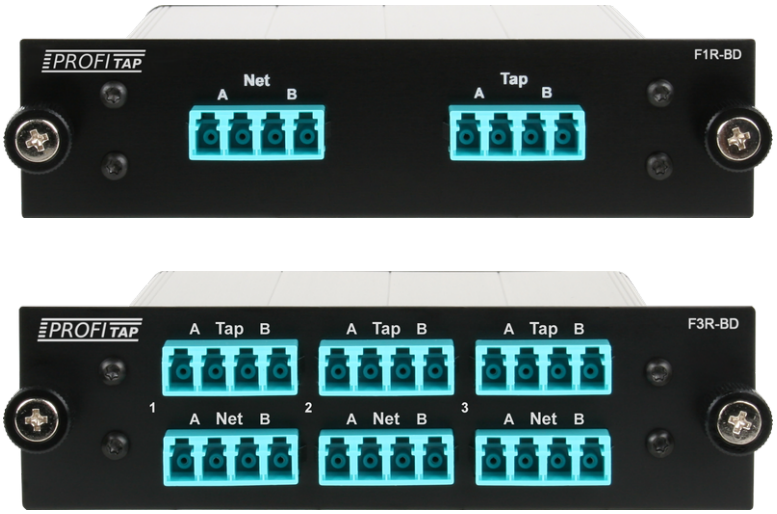

40/100G BiDi Fiber Optic TAPs

USER MANUAL

If you have any questions, visit our Knowledge Base:

https://kb.profitap.com/

You can also contact us through our website:

https://www.profitap.com/contact-us/

Or directly by email:

support@profitap.com

For the latest documentation and software, visit our Resource Center:

https://resources.profitap.com/

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1. Description

The Profitap 40/100G BiDi fiber optic TAPs were specifically designed for the monitoring of Cisco bidirectional links.

The Cisco bidirectional standard uses two parallel multi-mode fiber strands to transmit the signal, rendering standard tapping systems inadequate for the monitoring of such links. The Profitap 40/100G BiDi fiber optic TAP transmits traffic to monitoring tools from all fiber optic signals, enabling total visibility over your network.

For complete security and optimum performance, the 40/100G BiDi TAPs are fully passive, requiring no power for operation. They are available with OM4 and OM5 fiber optic cabling, in single and triple density (up to 9 TAP points in a 1U footprint), and use low insertion loss zirconia sleeve adapters.

2. Installation

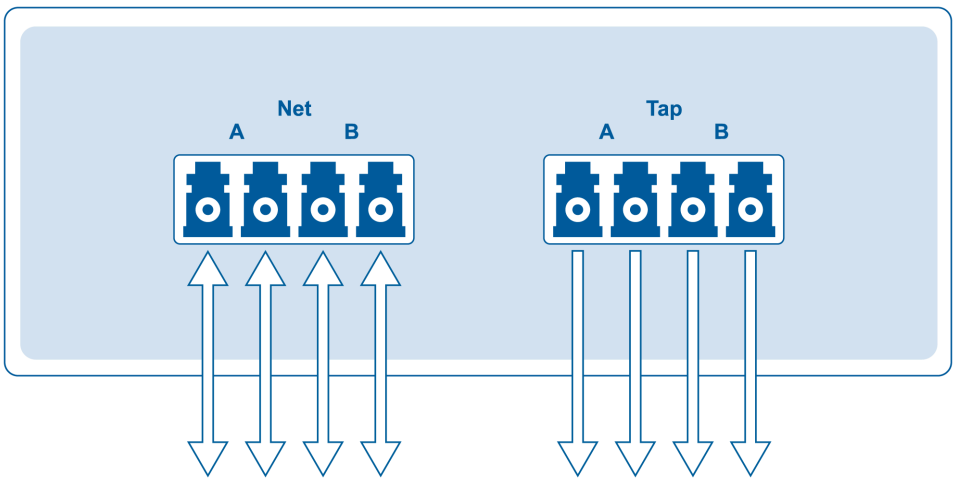
2.1. Rack mounting

The TAP modules are designed to fit in a Profitap Rackmount Frame, for up to 3 modules in a 19″, 1U rack space. First attach the frame into the desired rack location using appropriate screws, then slide the TAP modules into the frame and secure them using the thumbscrews.

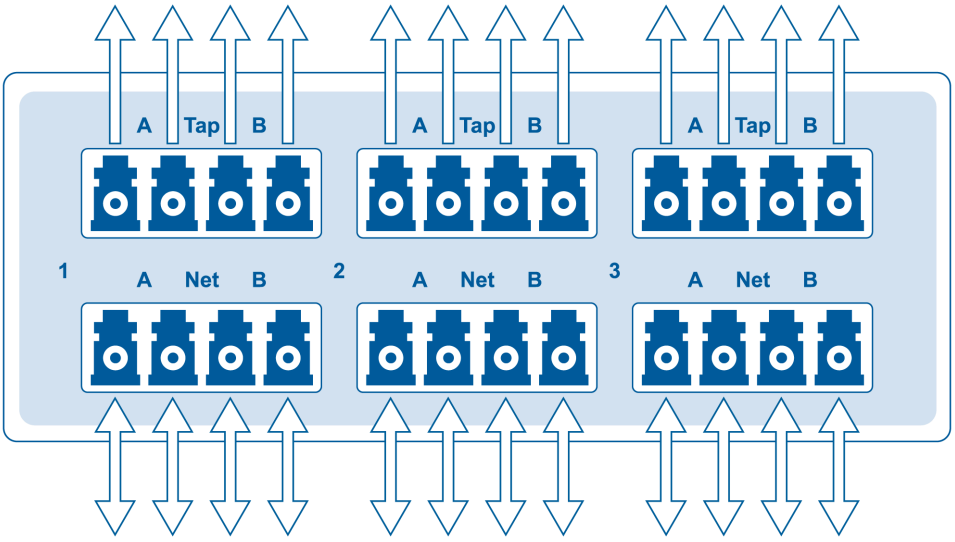
2.2. Connection

Note: Fiber optic end-face cleanliness is critical for proper signal transmission, as dust and other microscopic particles can disturb or block the optical signal. Keep dust caps on unused connectors to minimize contamination risk. Always clean the connector end-faces using proper fiber optic cleaning equipment before mating them. In the event of a weak or absent signal, the first troubleshooting step should be to clean the connector end-faces.

Connect the **Net** ports to the network and the **Tap** ports to the analyzer, as shown below.



1-link BiDi TAP



3-link BiDi TAP

Note: Use **RX-only transceivers** on the monitoring appliance.

3. Technical Specifications

Model	Connectors	Links	Fiber type	Wavelengths	Split ratio	Maximum insertion loss (dB) NET / TAP
F1R-BD	LC	1	OM4 MM 50 µm	832–912 nm	50/50	3.8 / 3.8
F1R-BD2	LC	1	OM5 MM 50 µm	832–912 nm	50/50	3.8 / 3.8
F3R-BD	LC	3	OM4 MM 50 µm	832–912 nm	50/50	3.8 / 3.8
F3R-BD2	LC	3	OM5 MM 50 µm	832–912 nm	50/50	3.8 / 3.8

	F1R-BD / F1R-BD2	F3R-BD / F3R-BD2
Connectors	2 x quad LC, zirconia sleeve	6 x quad LC, zirconia sleeve
Dimensions (WxDxH)	112 x 128 x 30 mm 4.4 x 5 x 1.2 in	112 x 128 x 30 mm 4.4 x 5 x 1.2 in
Front panel dimensions (WxH)	143 x 35 mm 5.6 x 1.4 in	143 x 40 mm 5.6 x 1.6 in
Weight	220 g 0.49 lb	265 g 0.58 lb
Compliance	RoHS CE	RoHS CE

Legal

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