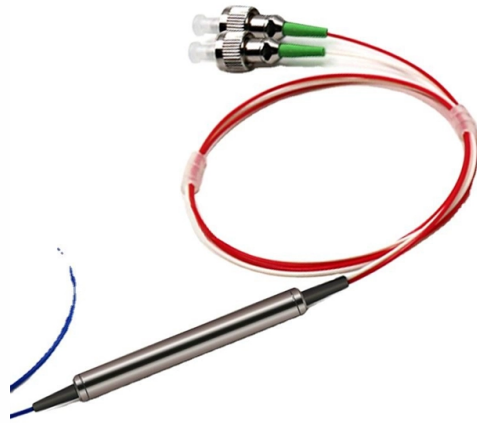


Network monitoring splitter



Article Overview

Network monitoring splitters are devices that duplicate network traffic for monitoring purposes without disrupting the original data flow.

Overview

Network monitoring splitters, also known as network taps or optical splitters, are used to mirror or split network traffic so that monitoring tools can analyze data without affecting the live network. They are essential for network performance monitoring, security analysis, and troubleshooting.

Types of Network Monitoring Splitters

1. **Passive Fiber-Optic Network Taps** Passive fiber taps, such as the G-TAP M Series, split optical signals to provide full-duplex monitoring of fiber links without requiring power or software. They typically have four ports: network A, network B, monitor A, and monitor B. Traffic flows uninterrupted through the network ports while a copy is sent to the monitor ports, which can feed tools like intrusion detection systems, packet analyzers, and VoIP recorders. These taps support speeds from 1Gb to 400Gb and various configurations including unidirectional, bidirectional, and breakout links .
2. **Optical Splitters for FTTH Networks** Optical splitters, commonly used in Fiber To The Home (FTTH) networks, distribute light from a single fiber to multiple fibers, enabling point-to-multipoint communication. They are available in bare, connectorized, or module formats and support various split ratios. These splitters reduce the number of fibers needed, lowering deployment costs while allowing network monitoring and management .
3. **PLC Splitters** Planar Lightwave Circuit (PLC) splitters are used to split optical signals into multiple outputs. They are commonly used in network monitoring and management .

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For more information, pricing, or custom solutions, please contact us:

Website: <https://www.chromadecksigns-eastrand.co.za>

Email: sales@chromadecksigns-eastrand.co.za

Phone: +32 2 318 5792

Address: Avenue Louise 500, 1050 Brussels, Belgium

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