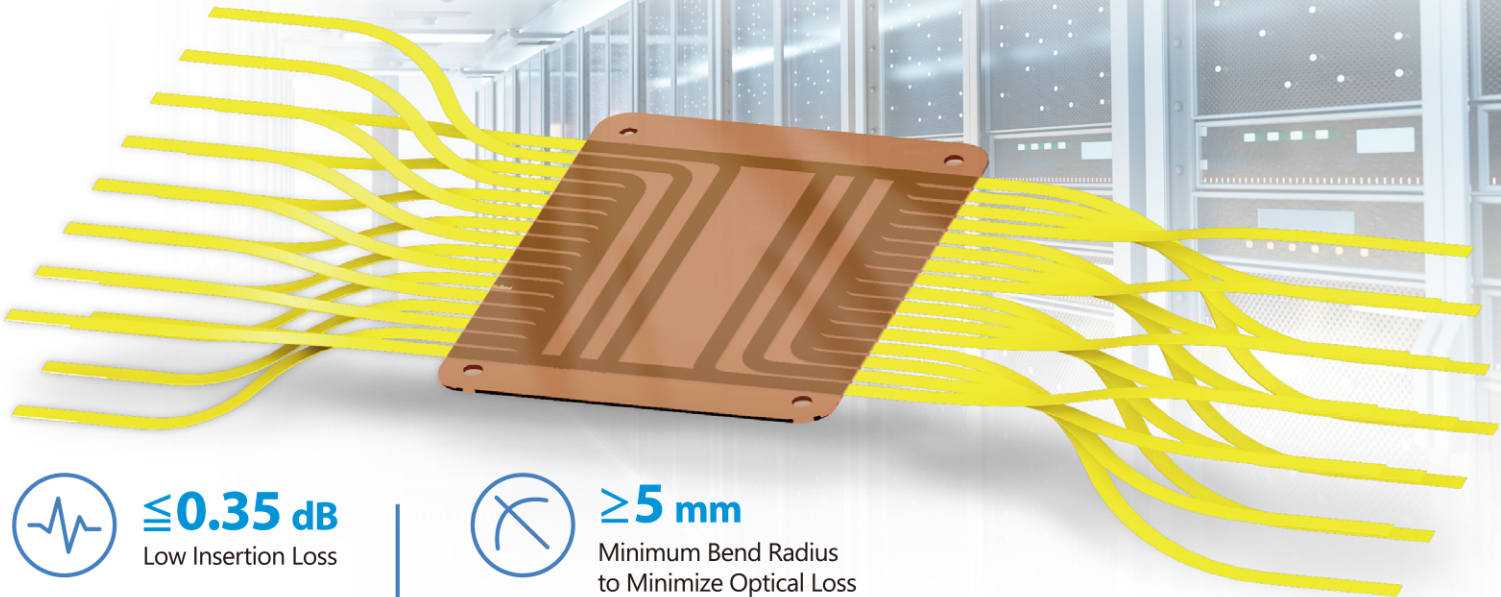


Fiber Shuffle

High-Density Fiber Management for AI Infrastructure



≤0.35 dB
Low Insertion Loss



≥5 mm
Minimum Bend Radius
to Minimize Optical Loss

The **ACON OPTICS Fiber Shuffle** is a Flexible Optical Backplane designed for AI data centers, Co-Packaged Optics (CPO), and high-performance computing (HPC) systems. Built on an **ultra-thin flexible substrate**, it enables precise, high-density fiber routing within a compact footprint, reducing cable congestion, improving airflow, and simplifying next-generation optical interconnections.

Features



Ultra-Thin Flexible Design for optimized routing space



Reduce Fiber Congestion for simplified cable management



Low Insertion Loss (≤0.35 dB) for reliable optical performance



Minimum Bend Radius ≥5 mm to minimize optical loss



High-Density Fiber Management with customizable routing architecture



Optimize Airflow & Rack Space for enhanced thermal management



Compatible with MT Ferrules, MPO/MTP & Fiber Arrays



Blind-Mate Ready for fast system integration

Applications



AI Data Centers



Co-Packaged Optics (CPO)



High-Performance Computing (HPC)



Optical Circuit Switches (OCS)



Optical Backplanes



Telecommunications Networks

ACON OPTICS COMMUNICATIONS INC.

TAIWAN-HEADQUARTER

5F., No.4, Aly. 9, Ln. 45, Baoxing Rd., Xindian Dist., New Taipei City 231, Taiwan
Tel:+886-2-2917-7668
contactus@aconoptics.com

CHINA-TIANJIN

No.32, Taixiang Road,TEDA, Tianjin, China.
Tel:+86-22-6633-2010
contactus@aconoptics.com

CHINA-SHENZHEN

No. 2, Lanjing Middle Road, Pingshan District, Shenzhen City, Guangdong, China
Tel:+86-755-3382-8888
contactus@aconoptics.com

AMERICA

Advanced-Connectek U.S.A. Inc.

3002 Dow Ave, Suite 506, Tustin, California 92780, U.S.A.
Tel: +1-714-573-1920
info@acon-us.com

www.aconoptics.com