

# MMC Interface **Shuffle Enclosure** Enabled by Fiber Optic Flex Circuit (FOFC)

— — *Future-proof your spine-leaf core*

Modern hyperscale data centers demand ultra-high-speed parallel optical connections, but traditional spine-leaf architectures create cabling complexity—each leaf switch must connect to every spine switch, leading to tangled fiber bundles and inefficient layouts. T&S's 4U Shuffle Enclosure with FOFC (Fiber Optic Flex Circuit) Technology overcomes this challenge in a revolutionary way:

## Ultra-Compact Design

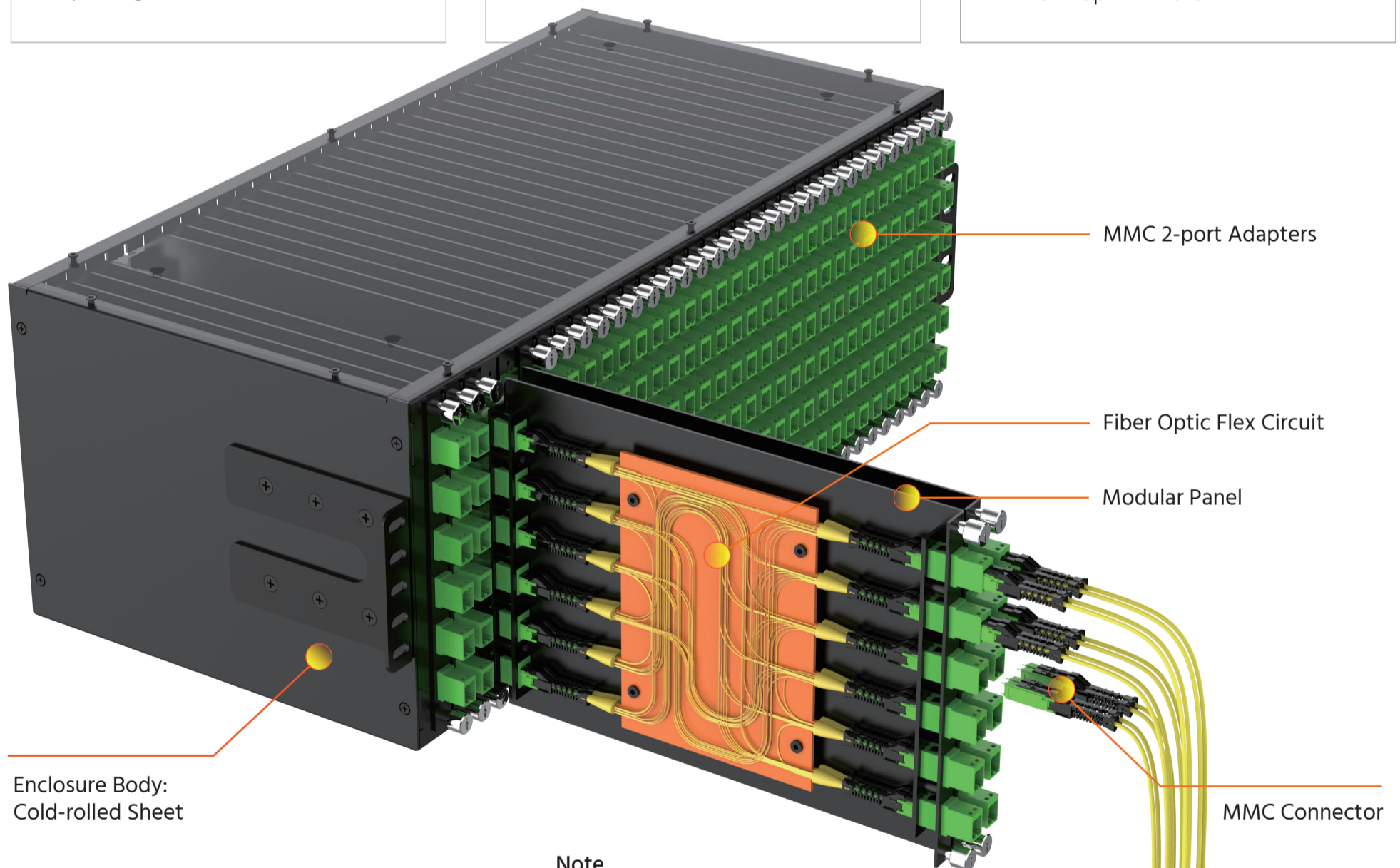
Modular 4U enclosure integrates a high-density shuffle structure, replacing bulky cable bundles.

## Zero On-site Patching

Pre-installed FOFC eliminates field fiber splicing, accelerating deployment.

## Custom Routing Flexibility

Adapts seamlessly to ToR/EoR or HPC layouts while maintaining airflow-optimized cleanliness.



Enclosure Body:  
Cold-rolled Sheet

### Note

Custom designs are available for 1U/2U/3U enclosures, with optional VSFF (Very Small Form Factor) connector configurations. For more information, please contact our sales team at: [info@china-tscom.com](mailto:info@china-tscom.com).

## Ultra-high Density

4U Enclosure achieves industry-leading 9,216-fiber cross-connect density in a single rack unit based on MMC-24F connectors, enabling unprecedented scalability without footprint expansion.

## Patching Capacity

MMC Interface Enclosure		Patching Capacity		
		MMC-12F	MMC-16F	MMC-24F
21-inch	32 panels	4608	6144	9216
19-inch	28 panels	4032	5376	8064