

HIGH-DENSITY MPO FIBER CONNECTIVITY SOLUTIONS

Built for scalable, high-density
performance, distributed networks

L-COM MPO SOLUTIONS & APPLICATIONS

- **High-Density Performance**

Maximizes bandwidth in minimal space for backbone connectivity and high-density patching across enterprise, hyperscale, edge, and micro data centers

- **Scalable & Future-Ready**

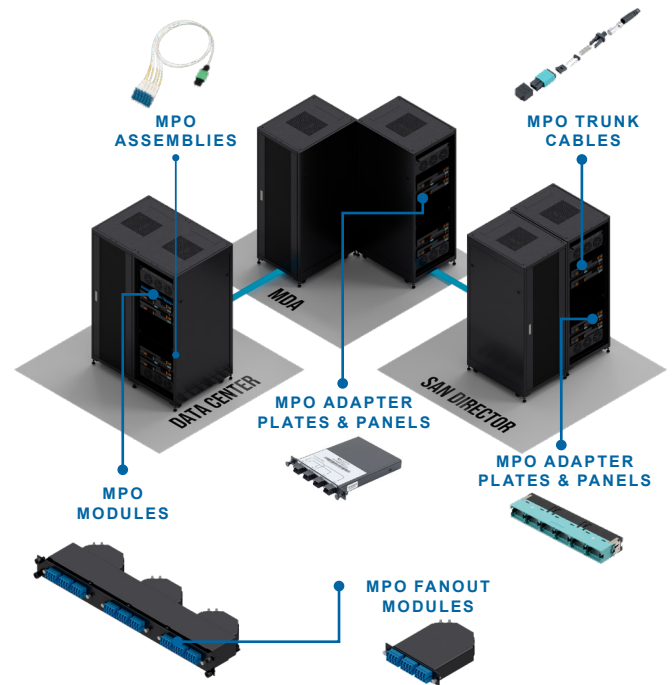
Supports 10G → 400G/800G for seamless growth in spine-leaf and distributed architectures

- **Simplified Deployment**

End-to-end MPO ecosystem streamlines breakout, aggregation, and upgrades, ideal for space-constrained environments

- **Reliable Performance**

Factory-terminated, tested assemblies ensure consistent, high-performance connections



INDUSTRY MARKETS

Enterprise & Colocation – Scalable data center and campus infrastructure

Hyperscale & Cloud – High-density, next-gen optical deployments

Edge & Micro Data Centers – Compact, high-performance connectivity

Structured Cabling – Standardized upgrades

CORE MPO CAPABILITIES

- OM1, OM2, OM3, OM4, OM5 & OS2
- Type A & Type B polarity
- LSZH, Riser, Plenum jackets
- MPO / MTP® compatibility
- Male (pinned) or Female (unpinned)

SOLUTION ARCHITECTURE

L-com's MPO solutions support the full fiber lifecycle

Product Type	SKU	Key Technical Features
MPO Trunk (Backbone)	8-Fiber MPO Trunk Cable MPMM8SMAP-3	Optimized for QSFP+/QSFP28 SR4 applications, full fiber utilization (4 Tx / 4 Rx), simplified polarity management
	12-Fiber MPO Trunk Cable MPMF12SMAR-10	Industry-standard structured cabling solution; compatible with MPO-to-LC fan-out modules; supports migration from 10G to 40G/100G
	24-Fiber MPO trunk cable MPFF24OM5AR-25	Ultra-high-density connectivity, supports MPO-24 to MPO-24 and MPO-24 to dual MPO-12 configurations; optimized for 400G/800G architectures
	MPO Patch Cord Assemblies FCA-MMS108A00P / FCA-MMS124A91P	Available in 8-, 12-, and 24-fiber configurations; 250 μm and 900 μm options; supports multiple polarity types (Neutral, Type B, Type C); MPO-to-LC fan-out capability
Fan-Out (Breakout)	8-Fiber MPO-to-LC/SC Cable MPFA8OM4-20LCUZ-10	Enables efficient breakout from trunk to equipment interfaces
	12-Fiber MPO-to-LC Cable MPM12OM5-LCZ-05	Supports high-density equipment connectivity
	24-Fiber MPO-to-LC cable; MPM24OM3-LCR-10	Ideal for high-port-count switch and server connections
Aggregation Harnesses	12- Fiber MPO MPF24212OM3R-CA-10	16-fiber equivalent, combines multiple MPO links into a single high-density port, supports 2×40G to 100G and 2×100G to 200G aggregation
	24-Fiber MPO MPF24308OM3Z-CA-5	24-fiber aggregates 3×40G to 120G and 3×100G to 300G, optimized for high-density network architectures
	MPO MPF308212OM3R-CA-5	Converts 2×MPO-12 to 3×8-fiber configurations; enables efficient port utilization and traffic consolidation
Conversion Harnesses	MPO MPF24-MPF212OM3R-1	Converts 24-fiber MPO to 2×12-fiber MPO; supports flexible network migration
	MPO MPF24-MPF308OM3Z-5	Converts 24-fiber MPO to 3×8-fiber configurations; enables breakout and migration flexibility
	MPO MPF308-MPF212OM5Z-5	Converts 2×12-fiber MPO to 3×8-fiber configurations; supports reconfiguration of existing fiber infrastructure

WHY PARTNER WITH L-COM

L-com supports industrial organizations with solutions that address immediate application requirements while strategically aligning with future system expansions and evolving technology demands through scalable, high-performance connectivity solutions.

- Expansive Product Portfolio
- Custom & Standard Solutions
- Rapid Turnaround
- Quality Assurance
- Tech and Customer Service Excellence



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Through scalable global operations and rapid development capabilities, Infinite helps customers accelerate innovation and bring new ideas to market.

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