



# Modular Photonics

Compact Mode Selective Solutions

[www.modularphotonics.com](http://www.modularphotonics.com)

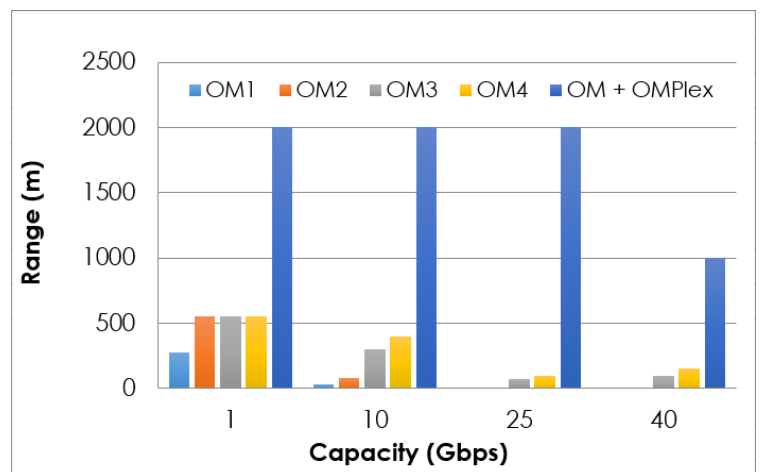
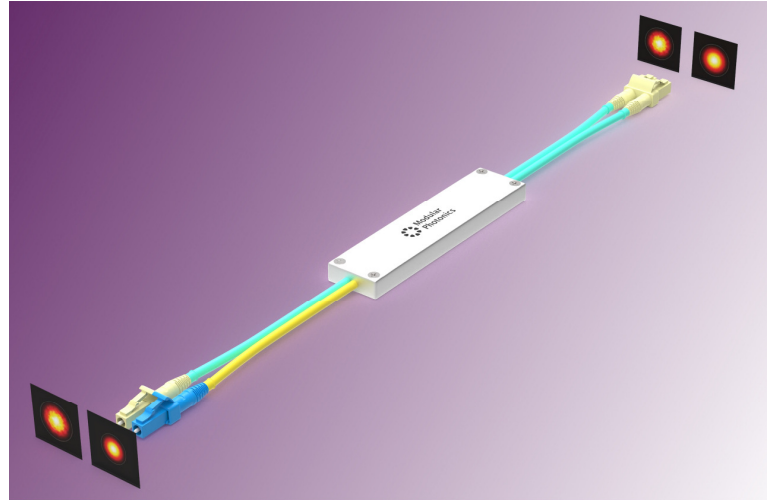
## OMPlex Series

### Key Features

- Cost-effective alternative to recabling for future-proofing multimode fibre networks
- Single-mode performance in legacy OM multimode fibre
- Up to 400× enhancement in data rate
- Simple installation
- Telecom reliability
- Dual-Band: 1310 nm, 1550 nm
- Insensitive to connector losses
- Compact module or 1U 19" rack form factor

### Applications

- Retrofitting any OM1-4 multimode fibre network
- Data centres, multi-building campuses, hospitals, sports arenas, etc



## OMPlex - Single-mode performance without recabling.

Connecting OMPlex devices to the ends of OM multimode fibre enables single-mode fibre performance of up to 40 Gbps to be realized across legacy multimode fibre. OMPlex by Modular Photonics allows for future-proofing your optical fibre networks without recabling, allowing for state-of-the-art data rates and transmission ranges. OMPlex devices provide ease of installation and telecom grade reliability.

## CONTACT

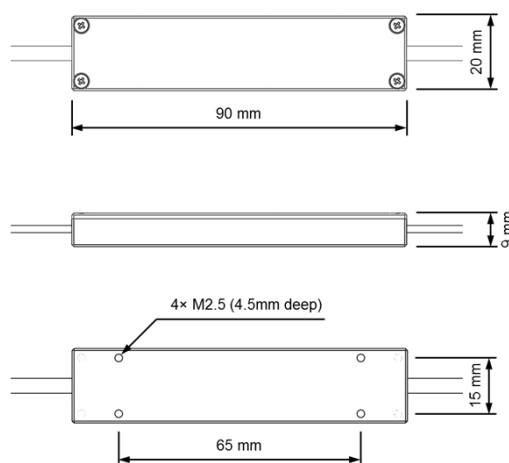
Modular Photonics  
[info@modularphotonics.com](mailto:info@modularphotonics.com)

## Specifications | OMplex Series

### Single-Mode Performance over Multimode Fibre

OMplex by Modular Photonics enables exclusive excitation of the fundamental mode in multimode optical fibres. By connecting OMplex devices onto the ends of multimode fibre, state-of-the-art single-mode transceivers with multimode fibre compatible Rx port can be operated across the legacy multimode fibre network, improving the capacity and transmission reach by up to 400x. The OMplex series is suitable for OM1, 2, 3, 4 and 5 fibre and has been validated using up to 40GBASE-LX4 transceivers. The device is compatible with 1000BASE-LX/LH, 10GBASE-LRM, 10GBASE-LR and 40GBASE-LX4 transceivers (enquire about others).

The technology uses high-precision connectors, or can be spliced directly onto OM fibre. Compared to the OMplex PRO devices, OMplex is insensitive to connector losses.



OMplex 2-Core Compact Module

Parameter	OM1	OM2/3/4/5
Max back-to-back insertion loss at 1310 nm (1550 nm)*	<1.0 dB (1.2dB)	<1.0 dB (1.2 dB)
Typical single device insertion loss at 1310 nm (1550 nm)	0.7 dB (0.8 dB)	0,7 dB (0.8 dB)
Max insertion loss at 1310 nm or 1550 nm	1.5 dB	1.5 dB
Operating temperature		-5 to 70 °C
Storage temperature		-40 to 85 °C
Maximum input power		300 mW
Humidity range		5 to 85%
Compatibility		IEC 60793, IEC 61754

\*Using fibre connectors between devices.

## CONTACT

Modular Photonics  
info@modularphotonics.com