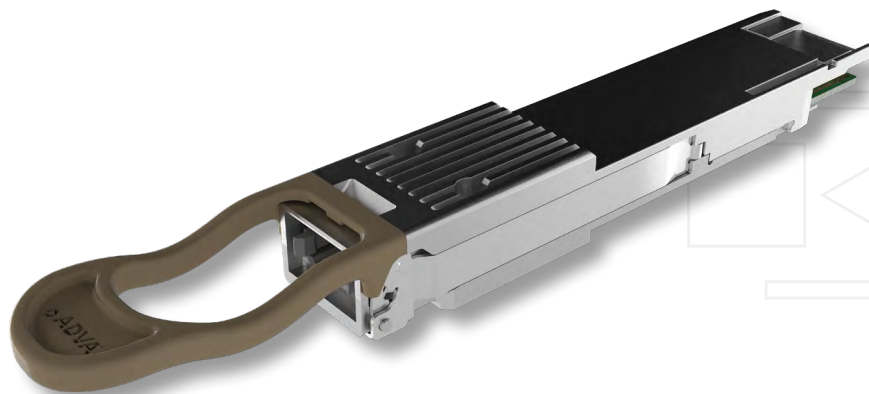


## MicroMux Quattro™

### 100GbE and 200GbE support in 400GbE slots without additional rack space

The growth of bandwidth demand has prompted network operators to introduce 400Gbit/s Ethernet-based connectivity. But this next-generation equipment offers little or no support for 100Gbit/s services. 100GbE services require additional costly equipment that also adds complexity, footprint and power consumption to the node. Our MicroMux™ Quattro plug solves this problem by transforming each 400GbE port into four 100GbE ports or two 200GbE ports with zero footprint increase.

Built as a standard-compliant QSFP-DD form factor, our MicroMux™ Quattro offers a simple and innovative solution to support 100GbE or 200GbE services where the deployed infrastructure is designed for 400GbE only. It packs the functionality of four independent 100GBase-SR4 or CWDM4 interfaces or two independent 200GBase-SR8 interfaces into a single QSFP-DD housing. Since there's no need for other expensive aggregation devices, MicroMux™ Quattro saves cost, rack space and power consumption. What's more, with less equipment and interconnecting points in the network, MicroMux™ Quattro significantly reduces operational complexity. Whether in data center, enterprise or service provider applications, our MicroMux™ Quattro helps you maximize the use of your existing hardware.



### Your benefits

- ✔ **Support 100GbE on 400GbE ports**  
 Converts a 400GbE QSFP-DD port into four independent 100GbE or two 200GbE ports
- ✔ **Flexible, software configurable**  
 Enables four 100GBase-SR4/CWDM4, two 200GBase-SR8 or one 400GBase-SR16 from a single 400GbE QSFP-DD slot
- ✔ **Save cost and operational complexity**  
 Eliminates the need for costly aggregation devices that also increase rack space and points of failure
- ✔ **Four times higher density of 100GbE ports**  
 By transforming each 400GbE port into four 100GbE ports, MicroMux™ Quattro offers higher port density than standard 100GbE pre-aggregation devices
- ✔ **Standard-compliant plug-and-play QSFP-DD**  
 Electrically and mechanical compliant to QSFP-DD standard cages; CMIS-Rev 3.0 compliant
- ✔ **FEC termination/creation**  
 KP2 FEC for 100GAUI-2 electrical interfaces and KR4 FEC for SR4 optical interfaces

## High-level technical specifications

Parameter	MicroMux Quattro™ SR4	MicroMux Quattro™ CWDM variant
Operating wavelengths	840nm (min.) to 860nm (max.)	1264.5nm (min.) to 1277.5nm (max.) 1284.5nm (min.) to 1297.5nm (max.) 1304.5nm (min.) to 1317.5nm (max.) 1324.5nm (min.) to 1337.5nm (max.)
Optical output power per channel	-8.4dBm (min.) to 2.4dBm (max.)	-6.5dBm (min.) to 2.5dBm (max.)
Extinction ratio	2dB	3.5dB
Transmitter dispersion penalty	4.4dB	3dB
Side-mode suppression ratio	N/A	30dB
Optical return loss tolerance	12dB	20dB
Eye mask {X1, X2, X3, Y1, Y2, Y3} Hit ratio of 5e-5 per IEEE	{0.3, 0.38, 0.45, 0.35, 0.41, 0.5}	{0.31, 0.4, 0.45, 0.34, 0.38, 0.4}
Receiver sensitivity per channel (BER 5e-5) (dBm)	-10dBm	-10dBm
Received optical power range per channel (dBm)	-10.3dBm (min.) to 2.4dBm (max.)	--11.5dBm (min.) to 2.5dBm (max.)
Clock accuracy	+/-100ppm	+/-100ppm
Case temperature range	0°C to 70°C	0°C to 70°C
Power consumption	14W	17W
Optical interface	MPO32	MPO12
Electrical interface	Standard-compliant QSFP-DD	Standard-compliant QSFP-DD

## Applications in your network

Enables 100GbE and 200GbE ports in latest 400GbE devices with just a hot-swappable QSFP-DD plug



MicroMux™ Quattro converts a 400GbE port into four 100GbE or two 200GbE ports with zero footprint increase



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