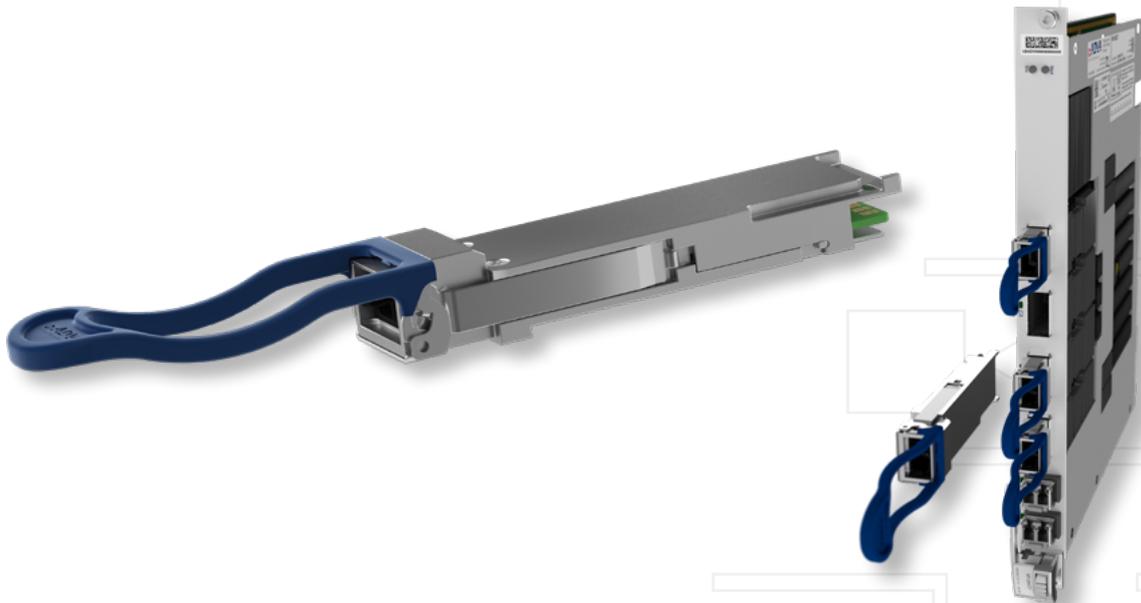


MicroMux™

Convert 100GbE ports into 10x 10GbE ports with zero footprint increase

With massive and ever-increasing traffic growth, network operators are having to upgrade transport network infrastructure to support data rates of 100Gbit/s and above. However, there is still a large demand for lower data rate services. Internet and cloud service providers are struggling to balance current need with future demand. Our MicroMux™ solves this problem.

Our MicroMux™ is an active QSFP28 interface that converts 100 Gigabit Ethernet (GbE) client ports into ten 10GbE ports without compromising power, space or spectral efficiency. By simply adding this small form-factor pluggable, a 100Gbit/s-based device can support 10GbE services. There's no need for additional costly aggregation devices that add operational complexity and consume rack space. Our MicroMux™ also increases flexibility. Service providers can seamlessly mix 10GbE and 100GbE clients into 100Gbit/s-based switches, routers or optical terminals without any footprint increase. Our MicroMux™ module provides highest client port flexibility with minimum operational complexity.



Your benefits

✔ **Support 10GbE on 100GbE ports**

Convert a 100GbE QSFP28 client port into ten 10GbE ports with just a pluggable QSFP28

✔ **Zero footprint increase**

MicroMux™ fits existing QSFP28 cages without modification and with unchanged energy efficiency

✔ **Support legacy infrastructure**

Serve legacy 10GbE links with your newest 100Gbit/s-based infrastructure without additional aggregation devices

✔ **Highest flexibility**

Single-mode and multi-mode variants; configurable for 100GBase-SR10 or breakout into ten 10GBase-SR

✔ **Save cost and operational complexity**

Reduce cost, points of failure and operational complexity with less equipment in the network

✔ **10GbE services on demand**

Easily increase or decrease the number of 10GbE ports in your 100Gbit/s-based switch, router or optical terminal

High-level specifications

| Parameters | Multi-mode variant | Single-mode variant |
|---|---|-------------------------------------|
| Operating wavelengths | 840nm to 860nm | 1260nm to 1355nm |
| Optical output power per channel | -7.3dBm to -1dBm | -8.2dBm to 0.5dBm |
| Extinction ratio | 3dB | 4dB |
| Transmitter dispersion penalty | 3.9dB | 3.2dB |
| Side-mode suppression ratio | N/A | 30dB |
| Eye mask {X1, X2, X3, Y1, Y2, Y3} Hit ratio of 5e-5 per IEEE | {0.25, 0.4, 0.45, 0.25, 0.28, 0.40} | {0.25, 0.4, 0.45, 0.25, 0.28, 0.40} |
| Receiver sensitivity per channel (BER 5e-5) | -9.9dBm | -14.4dBm |
| Maximum receiver input | 3.4dBm | 1dBm |
| Clock accuracy | +/-100ppm | +/-100ppm |
| Maximum link length | 150m OM4 for 100GBase-SR10 400m OM4 for 10GBase-SR | 10Km |
| Case temperature range | 0°C to 70°C | 0°C to 70°C |
| Power consumption | 6W | 6W |
| Optical interface | MPO24 MM | MPO24 SM |
| Electrical interface | CAUI-4 | CAUI-4 |

Applications in your network

Enable 10Gbit/s client support to 100Gbit/s-based switches, routers or optical terminals



MicroMux™ converts a 100GbE port into ten 10GbE ports with zero footprint increase



For more information please visit us at www.adva.com
© 02 / 2020 ADVA. All rights reserved.

Product specifications are subject to change without notice or obligation.

