

Press Release

Smartoptics launches the dual DCP-802 transponder for scalable 800G networking

Oslo, Norway – April 1, 2025 – Smartoptics, a leading provider of optical networking solutions, today announced the launch of the new DCP-802 transponder. The dual 400G/800G transponder is designed to maximize the potential of 800ZR technology for flexible and cost-efficient network scaling.

The DCP-802 transponder enables 800G networking in a compact form factor, significantly reducing power consumption and latency. It supports 1:1 transponder mode for direct conversion to DWDM. With support for 800G breakout, a single connection can be split into two 400G links (2×400G) or eight 100G links (8×100G) to maximize fiber utilization. This optimizes cost per bit for communication service providers, enterprises and internet exchanges.

The DCP-802 is designed for three use cases:

- **1:1 transponder mode:** Convert 800G, 400G or 100G gray signals to coherent DWDM.
- **Get more out of switches and routers with 800G breakout:** Extend the life of 100G/400G ports with increased capacity or break out 800G ports into multiple lower-rate links for broader compatibility.
- **Enable signal hand-off with performance monitoring:** Use the transponder's demarcation point to measure performance before handing off the signal to another system.

The dual 400G/800G transponder features two client ports supporting a flexible range of QSFP-DD transceiver types. On the line side, it supports coherent DWDM 400G and 800G modulation formats, with optional Layer 1 encryption for easily securing data in transit.

To optimize capacity and reach for specific network needs, the transponder supports programmable line rates from 100G to 800G in small increments. These flexible data rates are made possible with cutting-edge technologies such as dynamically adjusting modulation and constellation shaping.

“The DCP-802 transponder is a key addition to our 800G portfolio along with our 800G-capable open line systems, ROADMs, and transceivers. One of the biggest drivers for 800G is maximizing cost efficiency with breakout, and our first 800G transponder is purpose-built for this need. True to our smart design principles, it enhances cost efficiency and simplifies network architectures with its compact form factor and flexible support for pluggable optics. We look forward to helping customers make the most of 800G with the DCP-802,” says Kent Lidström, CTO Smartoptics.

The DCP-802 is planned to be available for the first deliveries to the market in Q3 2025.

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About Smartoptics

Smartoptics provides innovative optical networking solutions and devices for the new era of open networking. Our customer base includes thousands of enterprises, governments, cloud providers, Internet exchanges as well as cable and telecom operators. We have an open networking approach in everything we do which allows our customers to break unwanted vendor lock-in, remain flexible and minimize costs. Our solutions are used in metro and regional network applications that increasingly rely on data center services and specifications. Smartoptics is a Scandinavian company founded in 2006. We partner with leading technology and network solution providers such as Brocade, Cisco and Dell and have a global reach through more than 100 business partners.

For additional information about Smartoptics, please visit <https://smartoptics.com/>