



NEWS RELEASE

Adtran unlocks full potential of ZR and ZR+ optics with FSP 3000 M-Flex800™

2024-03-21

News summary:

- IP-over-DWDM offers cost benefits but comes with disadvantages, including lack of demarcation and complex management
- New FSP 3000 M-Flex800™ leverages ZR and ZR+ pluggable optics and simpler client multiplexing for a cost-efficient IP-to-DWDM approach
- New addition to Adtran’s coherent optical portfolio offers a gateway to 800Gbit/s with unprecedented efficiency and flexibility

HUNTSVILLE, Ala.--(BUSINESS WIRE)-- Adtran today launched its **FSP 3000 M-Flex800™**, enabling network operators to unlock the full potential of ZR and ZR+ optics for high-capacity transport solutions across edge, metro and core networks. This single-slot card – the newest addition to Adtran’s coherent optical technology suite – offers a universal host for ZR and ZR+ optics and addresses many of the shortfalls of IP-over-DWDM (IPoWDM) solutions. Compared to classical OTN muxponder solutions, M-Flex800™ supports much simpler demarcation and multiplexing technology. Combined with the use of a wide range of ZR optics, this enables a new way to develop compact and low-power transport solutions from the edge to the core. This new IP-to-DWDM approach enables flexible, cost-efficient networking with separated IP and optical layers.

Adtran’s FSP 3000 M-Flex800™ is a one-slot card that acts as a universal host for ZR, ZR+ and OpenROADM coherent interfaces. (Photo: Business Wire)

“Initially developed for DCI, ZR optics are now expanding their reach into diverse operational



environments. Today's launch will be key in that transition. Our new FSP 3000 M-Flex800™ will be a gateway between classical DWDM and the latest IPoDWDM, bringing the benefits of standardized ZR optics to a broad spectrum of operators," said Christoph Glingener, CTO of Adtran. "Our versatile one-slot card acts as a universal host for ZR, ZR+ and OpenROADM coherent interfaces, seamlessly integrating into any open line system and enabling multiple use cases. Whether you're looking to deploy in carrier infrastructure or DCI environments, in central offices or street cabinets, our M-Flex800™ can be easily slotted into any FSP 3000 chassis."

The Adtran FSP 3000 M-Flex800™ is a versatile, multi-rate line card able to support an extensive range of grey and coherent interfaces, including 100Gbit/s, 400Gbit/s, 800Gbit/s, ZR, ZR+, OpenROADM and other types of coherent optics. Designed to meet the high-capacity connectivity needs of telecom operators, cloud providers and enterprises, it facilitates a range of applications from the edge to the core. This universal host simplifies upgrades to 800Gbit/s line speeds and Ethernet services and can multiplex 100GbE, 400GbE and OTU4 services into line speeds up to 800Gbit/s. Suited for tasks such as IP and optical demarcation, ZR-to-ZR interconnects and edge OTN applications, the Adtran FSP 3000 M-Flex800™ offers a cost-effective and low-power solution in a single-slot card.

"With its exceptional flexibility, operational simplicity and compact footprint, our FSP 3000 M-Flex800™ caters to diverse environments, from data centers to space-restricted street cabinets. Its ability to reduce power consumption while supporting high-capacity, open and scalable transport is a testament to our commitment to driving the next generation of transport infrastructure," commented Ryan Schmidt, GM of optical transport at Adtran. "We're addressing the core needs of network operators across a broad spectrum of applications, even beyond the traditional transponder/muxponder use cases. Today's launch marks a big step towards more efficient, versatile and cost-effective infrastructure."

Further information on the FSP 3000 M-Flex800™ is available in these [slides](#).

A supporting product video is also available to [watch](#).

About Adtran

ADTRAN Holdings, Inc. (NASDAQ: ADTN and FSE: QH9) is the parent company of Adtran, Inc., a leading global provider of open, disaggregated networking and communications solutions that enable voice, data, video and internet communications across any network infrastructure. From the cloud edge to the subscriber edge, Adtran empowers communications service providers around the world to manage and scale services that connect people, places and things. Adtran solutions are used by service providers, private enterprises, government organizations and millions of individual users worldwide. ADTRAN Holdings, Inc. is also the largest shareholder of Adtran Networks SE, formerly ADVA Optical Networking SE. Find more at [Adtran](#), [LinkedIn](#) and [X](#).

Published by

ADTRAN Holdings, Inc.

www.adtran.com

For media

Gareth Spence

+44 1904 699 358

public.relations@adtran.com

For investors

Steven Williams

+49 89 890 665 918

investor@adtran.com

Source: Adtran