

# 800G QSFP-DD MULTIRATE HIGH-POWER COHERENT TUNABLE DWDM WITH FEC ZR/ZR+ WITH DUAL CDR

450 km, C-Band, Tx 1dBm, LC-Duplex, Singlemode

D.C0168HG.11 y1N  
QSFP-DD  
ZR/ZR+



- ✔ Universal multirate high-power coherent tunable QSFP-DD Transceiver
- ✔ Compliant to OIF 800GZR & OpenROADM
- ✔ Use FLEXBOX to configure to almost any vendor
- ✔ For 800GBASE-ZR/ZR+ Ethernet links
- ✔ Integrated Clock-Data-Recovery (CDR)
- ✔ DP-16QAM modulated signal
- ✔ Supported Data Rates: 850 Gbit/s
- ✔ Up to 450 km via Singlemode OS2
- ✔ LC-Duplex Connector

SPECS	Coherent high-power DWDM	450 km	850 G	Tunable
PROTOCOLS	2x 400G ETH	4x 200G ETH	800G ETH	8x 100G ETH

## SPECIFICATION

FORM FACTOR	QSFP-DD
CONNECTOR / POLISH	LC Duplex FC
INTERFACE	Singlemode high-power DWDM
COMPLIANCE CODE	ZR/ZR+
OPERATING TEMPERATURE	Standard
MODULATION	DP-16QAM
DISTANCE	450 km
TEMPERATURE RANGE	0°C - 70°C

BANDWIDTH	850 Gbit/s
DIGITAL DIAGNOSTIC MONITORING (DDM)	Yes, internally calibrated
POWER CONSUMPTION	29 W
CDR	TX and RX
SGMI	No
INBUILT FEC	Yes, cFEC, OFEC
POWERBUDGET (DB)	10 dB
TRANSMIT MIN/MAX PER LANE	-10 dBm / 1 dBm

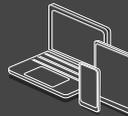
RECEIVER MIN/MAX PER LANE	-9 dBm / 0 dBm (overload) @800G
WAVELENGTH TX (TYPICAL)	tunable Coherent high-power DWDM
TX TUNABLE RANGE	1528.77 - 1567.13 nm
WAVELENGTH RX (RANGE)	1528.8 - 1567.1 nm
LASER	EML
RECEIVER TYPE	Coherent
MODULATION	DP-16QAM @800G
SUPPORTED PROTOCOLS	2x 400G Ethernet, 4x 200G Ethernet, 800G Ethernet, 8x 100G Ethernet

## TRANSCIEVER CONFIGURATION WITH FLEXBOX

It's that easy to use



Insert into the FLEXBOX



Select and Configure



Use with Device

[How to get your free FLEXBOX? >](#)

## COMPATIBILITY

ALL TRADEMARKS, REGISTERED COMPANIES & REFERENCES CITED ARE THE SOLE PROPERTY OF THEIR RESPECTIVE COMPANY AND ARE USED SOLELY TO ASSIST IN THE IDENTIFICATION OF PRODUCTS.  
MSA STANDARD COMPATIBLE

## WHAT CUSTOMERS SAY

Our engineers spend a lot of time in data centers connecting switches and routers from different vendors. With the FLEXOPTIX service not only their task gets easier, also the back office doesn't have to have a broad range of optics from different vendors in stock anymore. The days that an engineer stand next to a router with an optic from the wrong vendor are over. With the FLEXOPTIX FLEXBOX the engineer simply reconfigures the optic, and that's that. As an added benefit with the FLEXBOX there is no need to connect a new cross-connect to a device to see if it is connected on the other side. The measurement option that comes with the FLEXBOX are very handy!

**Thomas Verschuren**  
Technical Consultant / IP-Visie Networking B.V.

As a network engineer responsible for programming universal transceivers, I can confidently say that the FLEXBOX is a true game-changer in the field. Its unparalleled capabilities and user-friendly interface makes the process effortless and highly efficient.

One of the standout features of the FLEXBOX is its ability to support a wide range of transceiver types and brands. Whether you're dealing with SFP, SFP+, QSFP the FLEXBOX has got you covered.

**Martin Fiegl**  
Network Engineer / SOA People

Formerly a System & Network Engineer at the service of French Academic and Research Network and currently developing my own IT services business, I have been a strong advocate of FLEXOPTIX "one-SFP-fits-all" approach since 2015!

Having purchased close to 1500 optics over the last few years for different kinds of projects (Metropolitan & Campus Networks, Datacenter, Nexans FTTO projects), I have always been completely satisfied with FLEXOPTIX products.

I have had the opportunity to test several competing solutions and for me "FLEXBOX" is by far the most advanced in terms of functionality, ease of use and compatibility.

Beyond the flawless technical aspects, the many human qualities of the different people I have had the opportunity to exchange with are a priceless advantage: sympathy, reactivity, impressive know-how, infallible logistics and after-sales services, FLEXOPTIX is a company you enjoy working with and you can trust one hundred percent. Thanks a lot guys!

**Francis Monestier**  
System & Network Engineer / JigWan

I have received my orders from them in blistering speed. Happy to the nth degree.

**Pat Cluney**  
Senior Technical Officer / Waterford Institute of Technology