

Networking

100G ZR QSFP28 DIGITAL COHERENT OPTICS TRANSCEIVER



High Tx output power (0dBm) w/o TOF, 100GE, C-temp, 0°C to 70°C, SFF-8636.

Built around the Coherent Steelerton DSP, the 100G ZR QSFP28-DCO transceiver is fully compliant to the IEEE 802.3™-2022 100GBASE-ZR standard, ensuring interoperability with other solutions. The Steelerton DSP is the first purpose-built DSP for 100G ZR applications, optimized for the lowest power dissipation and smallest size.

In the QSFP28 module the DSP is paired with a highly efficient silicon photonics optical front-end and a power-optimized tunable laser, resulting in a typical module power dissipation of less than 5W. To facilitate deployment in a wide variety of edge network locations, including street cabinets or pole mount enclosures, the 100G ZR QSFP28-DCO module will also be offered in a version that supports industrial temperature ranges.

To simplify network installation and operation, the module offers value-add software features like:

- Flexitone™ automatic wavelength configuration, where the transceiver autonomously searches for the right wavelength that allows end-to-end connectivity across the DWDM network, enabling zero-touch provisioning with significant OpEx savings (faster installation, minimizing risk for technician error, ...).
- Remote digital diagnostics, where a transceiver in a central office location can access the digital diagnostics of the transceiver at the remote end of the link and feed that information back to the network management system, without the need for a separate supervisory channel to the remote location. For details of our compliance standards, click

[here](#)

[Contact Sales for Complete Datasheet](#)



Coherent, Inc.

5100 Patrick Henry Drive, Santa Clara, CA 95054
p. (800) 527-3786 | (408) 764-4983
f. (408) 764-4646

tech.sales@coherent.com www.coherent.com

Parameter	FTLC3352R3PL1
Description	100G ZR QSFP28 Digital Coherent Optics transceiver, high Tx output power (0dBm) w/o TOF, 100GE, C-temp, 0°C to 70°C, SFF-8636
Operating Distance	300 km
Data Transfer Rate	100G
Form Factor	QSFP28
Wavelength (by band type)	C-Band 5THz DWDM Tunable
Transmitter Optical Output Power (dBm)	0dBm
Receiver	coherent
Management Interface	SFF-8636
Low End Case Temperature (°C)	0 °C
High End Case Temperature (°C)	70°C
Transmitter	Tunable DP-16QAM/8QAM/QPSK
Connector	LC
Media Type	Duplex SMF
Data Rate	100 Gb/s
Diagnostics	digital

**Coherent, Inc.**

5100 Patrick Henry Drive, Santa Clara, CA 95054

p. (800) 527-3786 | (408) 764-4983

f. (408) 764-4646

tech.sales@coherent.com www.coherent.com