

The power of QSFP112 transceivers

Redefining the 400G frontier



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What is QSFP112?

QSFP112 represents the evolution of the QSFP transceiver form factor. Its streamlined, four-electrical lane architecture delivers a remarkable reduction in power consumption compared to its predecessor, QSFP-DD.



Why QSFP112?

In the ever-expanding landscape of data center infrastructure, transceivers number in the thousands. As the pursuit of unparalleled efficiency marches on, QSFP112 emerges as the transceiver technology that significantly reduces power consumption in 400G interconnections.

2

What are the advantages of QSFP112 optics?

Lower cost



Fewer electrical connections mean a reduction in both internal electronics and manufacturing components. **Fewer components result in a significant drop in cost** per QSFP112 transceiver, as compared to its predecessor, the QSFP-DD.

Lower power consumption



QSFP112 transceivers typically consume 3.5 W less than other 400G transceivers. This **remarkable 29% reduction** in power consumption establishes the QSFP112 as the frontrunner in the high-speed transceiver market.

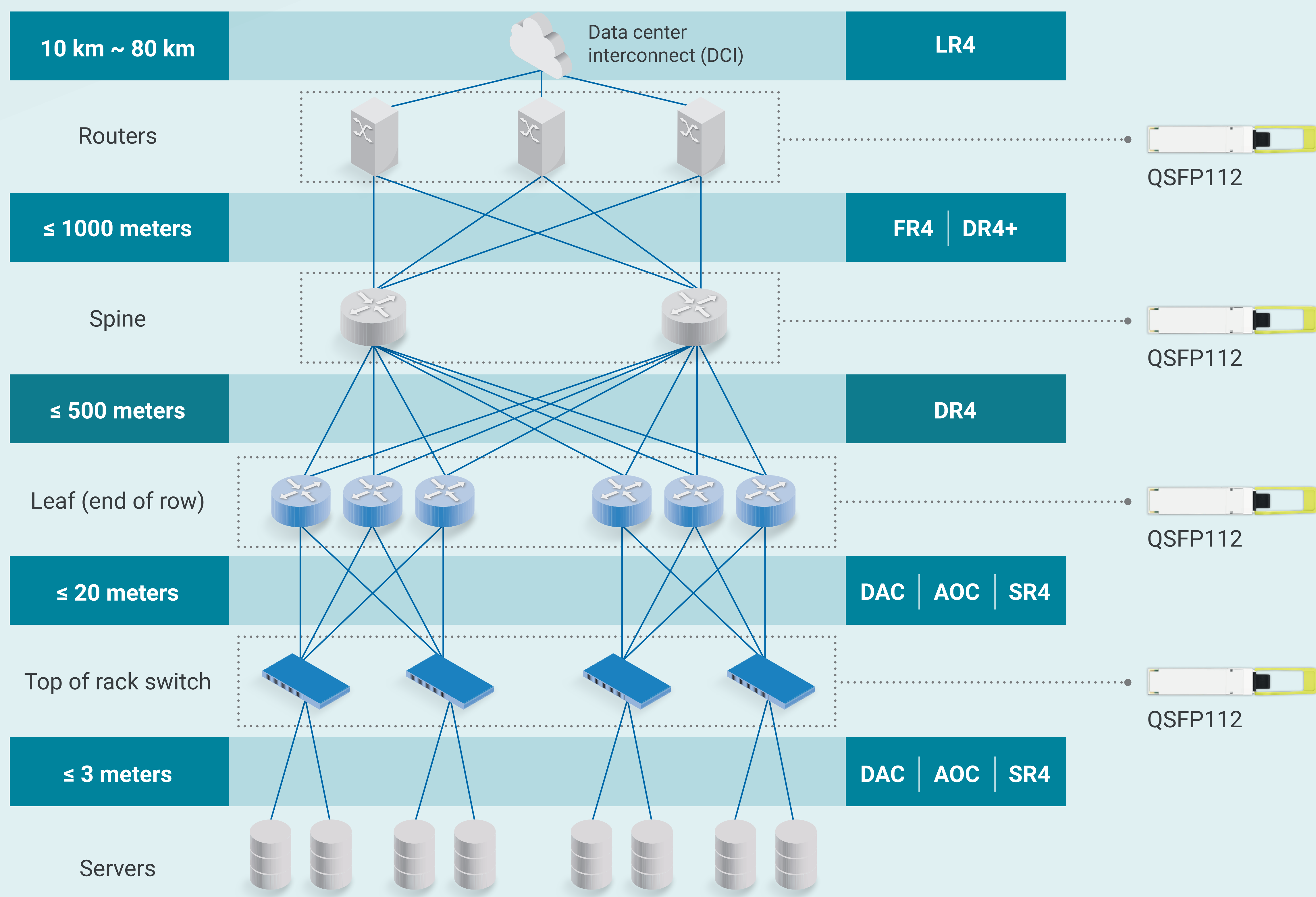
Reduction in carbon footprint



Data centers represent 1%-2% of global power consumption. Considering there are many thousands of transceivers per data center, a drop of 30% in transceiver power requirements delivers an enormous improvement in environmental impact.

3

Key use case: data center connectivity



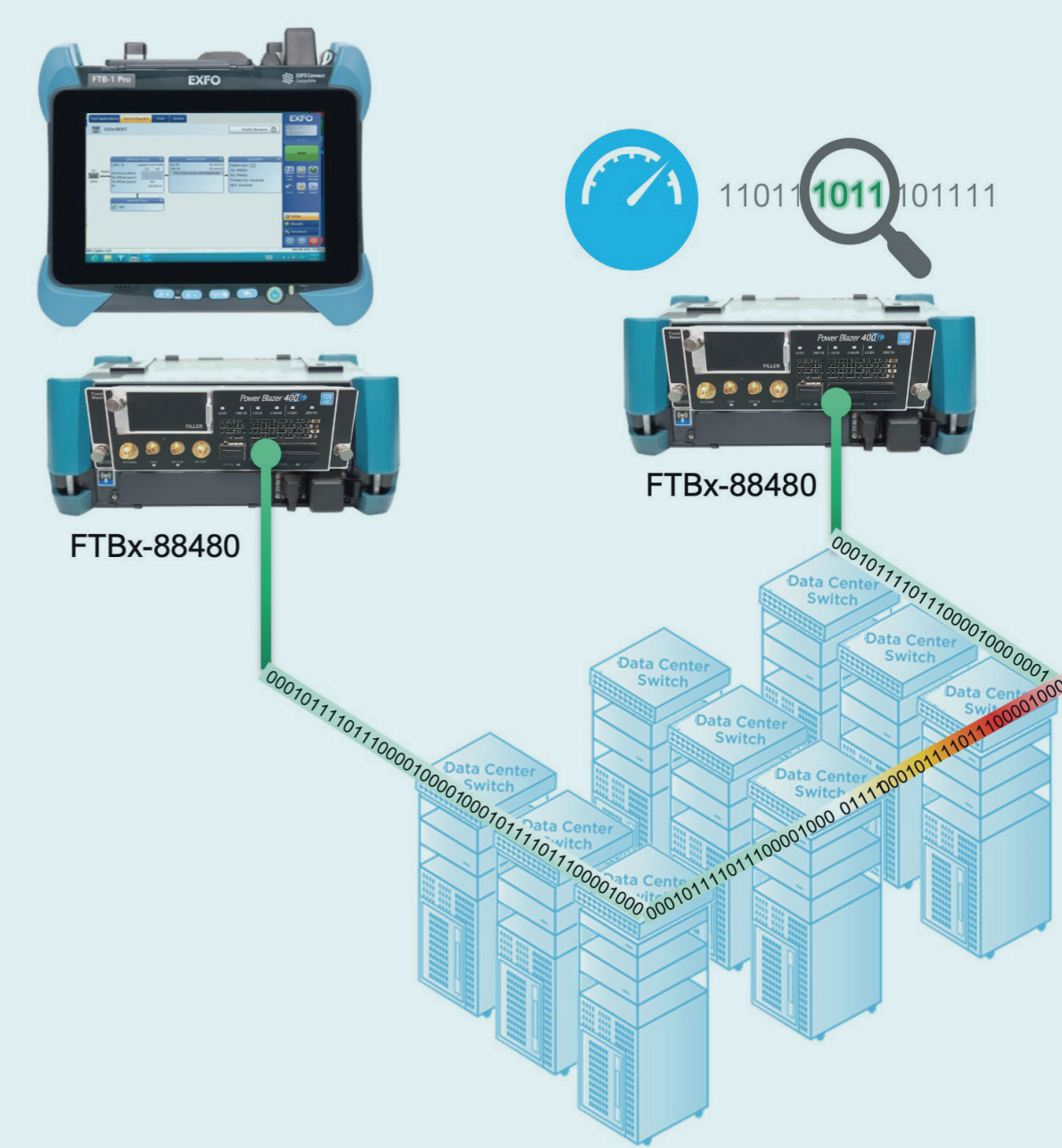
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EXFO's QSFP112 transceiver test solution

Available on the FTBx-88480 Series

The FTBx-88480 Series 400G test solution offers advanced capabilities for **validating cables and transceivers (including QSFP112) in laboratory, manufacturing and field applications**. When paired with EXFO's latest FTB-1 Pro platform, it's the **industry's only portable QSFP112 test solution**.

400G-link performance check



Validate on-site data transmission performance

Validate fiber installations; ensure compliance with industry standards

Quickly troubleshoot issues

Transceiver and cable validation, I2C control, etc.



Multi-port, QSFP112 configuration (3 ports on the FTBx-88482)

QSFP112-types supported: FR4, DR4, SR4, LR4, AOC, DAC

FTBx-88480 Series
*using a QSFP-DD port



These key testing parameters are achieved using EXFO's compact, dual-port FTBx-88480 Series solutions. For more information, talk to our experts today at EXFO.com