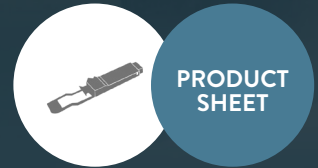# T1 NEXUS TRANSCEIVERS

T1Nexus offers an extensive range of optical transceivers in all major form factors, modes, and speeds to include SFP, SFP28, QSFP, QSFP28, QSFP-DD, and QSFP56. T1Nexus supports data rates from 100M to 400G with a roadmap to 800G. Our transceivers deliver consistent quality and reliability through the incorporation of quality assurance systems including ISO9001, ISO14001, and TL9000 and are backed by a lifetime warranty.

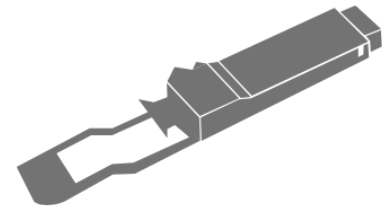## RELIABLE, FLEXIBLE, AND COST EFFICIENT

T1Nexus' universal transceivers provide customers the ability to break free from major brands with unique customizations that meet all optic requirements. T1Nexus supports over 90 OEM brands with an extensive test bed of OEM switches for assured compatibility. With the ability to support multiple OEM brands on a single transceiver, our universal transceivers allow for seamless integration across many platforms delivering ease and simplicity that eclipses our competition.

T1 NEXUS ADVANTAGE

Committed to continuous innovation, T1 can help you lower inventory costs and operating overhead by providing recoding capability and providing more energy-efficient transceivers. Our designs emphasize high reliability, low power consumption, and availability. We also offer a full portfolio of extended temperature range modules for deployment in challenging environments.

T1 NEXUS INNOVATION

T1Nexus offers software defined optics enabled by our line of Aperto compatible coding solutions. From portable mobile connected tools to large volume coding platforms, the cloud-based Aperto platform delivers an OEM compatible code supporting hundreds of devices. This full range of OEM compatible optics comes with the ability to multi-code or support multiple vendors on the same transceiver or cable, creating a single universal part that any individual OEM could never provide. T1Nexus can work with you to create exactly the multi-code part that you need for your network, or use Aperto to load any OEM profile from our Cloud Library – either way T1Nexus gives you the power to define the exact part you need when you want it, where you want it.

GLOBAL HEADQUARTERS

T1Nexus
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Santa Clara, CA 95054, USA
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VISIT WWW.T1NEXUS.COM FOR MORE INFORMATION

T1 OFFERS A COMPLETE RANGE OF TRANSCEIVERS TO MEET ALL OPTIC REQUIREMENTS

At T1, we provide several different distance ranges for all our transceiver models

LX/LR Long haul ranging up to 10km.

SX/SR Short haul with up to a 2km range.

ZX/ZR/EZX Extended reach with range up to 120km with SFP as well as with 10GB/s transceivers.

EX/ER Extended reach ranging to 40km with SPF as well as with 10Gb/s transceivers.

T1Nexus offers DWDM, Ethernet, SONET, CWDM, fiber channel, dual rate, and unidirectional or bidirectional. transceivers. Our transceivers are available in E-temp (-20oC to +75oC) or I-Temp (-40oC to +85oC) ranges as well as C-Temp (0oC to +70oC).

PRODUCT OVERVIEW

T1Nexus transceivers come in a variety of form factors covering different reaches, applications, data rates, and connector types. Form factors we offer include:

SFP Small form factor pluggable transceivers with up to 6Gb/s in data rates, available in 850nm, 1310nm, and 1550nm, DWDM and CWDM channel options, bidirectional option for 1310nm/1490nm and 1310nm/1550nm, and distance ranging up to 160km.

XFP Transceivers with up to 10Gb/s in data rates and up to 80km in distance ranging, along with DWDM and CWDM channel options.

SFP+ Transceivers with data rates from 8Gb/s to 10Gb/s and up to 80km in distance ranging, with DWDM and CWDM channel options and full range of DAC/Twinax cables available.

QSFP+ Quad small form factor pluggable transceivers with up to 40Gb/s data rates. Range of DAC and AOC cables available.

CFP/CFP2 Transceivers with data rates up to 100Gb/s and distance ranging up to 10km. Best for use in datacenters, metropolitan area networks, IP switches, DWDM systems, and storage area networks. CFP2 transceivers increase front panel port density up to 2-4 times more than a traditional CFP.

QSFP28 Quad small form factor pluggable transceivers with up to 100Gb/s in data rates and up to 10km in distance ranging. Best for use in large enterprise networks and datacenters.

QSFP-DD 200G and 400G transceivers ranging up to 10km in distance and provides 12W in power consumption. Offers compatibility with both QSFP and QSFP28 transceivers.

OSFP 200G and 400G transceivers ranging up to 10km in distance and provides 15W in power consumption.

SOLUTIONS

At T1Nexus, we offer advanced technologies that exceed competitors. Solutions we provide include:

- 40km SFP over 1310nm Singlemode
- 2km SFP over Multimode
- Bidirectional SFP, 1490nm/1310nm, 60km
- Birdirectional SFP, 1590/1510nm, 120km
- Single fiber, single channel CWDM transceiver
- 10G copper SFP+

In addition to our SFP/SFP+ transceivers, we offer an array of RJ-45 electrical interface transceivers:

10/100/1000TX

SGMII and SERDES transceivers with 10/100/1000Mb link speeds over standard Cat5 and above cabling.

10GE COPPER SFP

Transceiver designed for high speed communication links that require 10 Gigabit Ethernet over Cat 6a/7 cable.

IEEE 802.3BZ/ NBASES−T

Transceiver designed for high speed communication links that require 5G over Cat6a cable or 2.5G over Cat 5e cable.