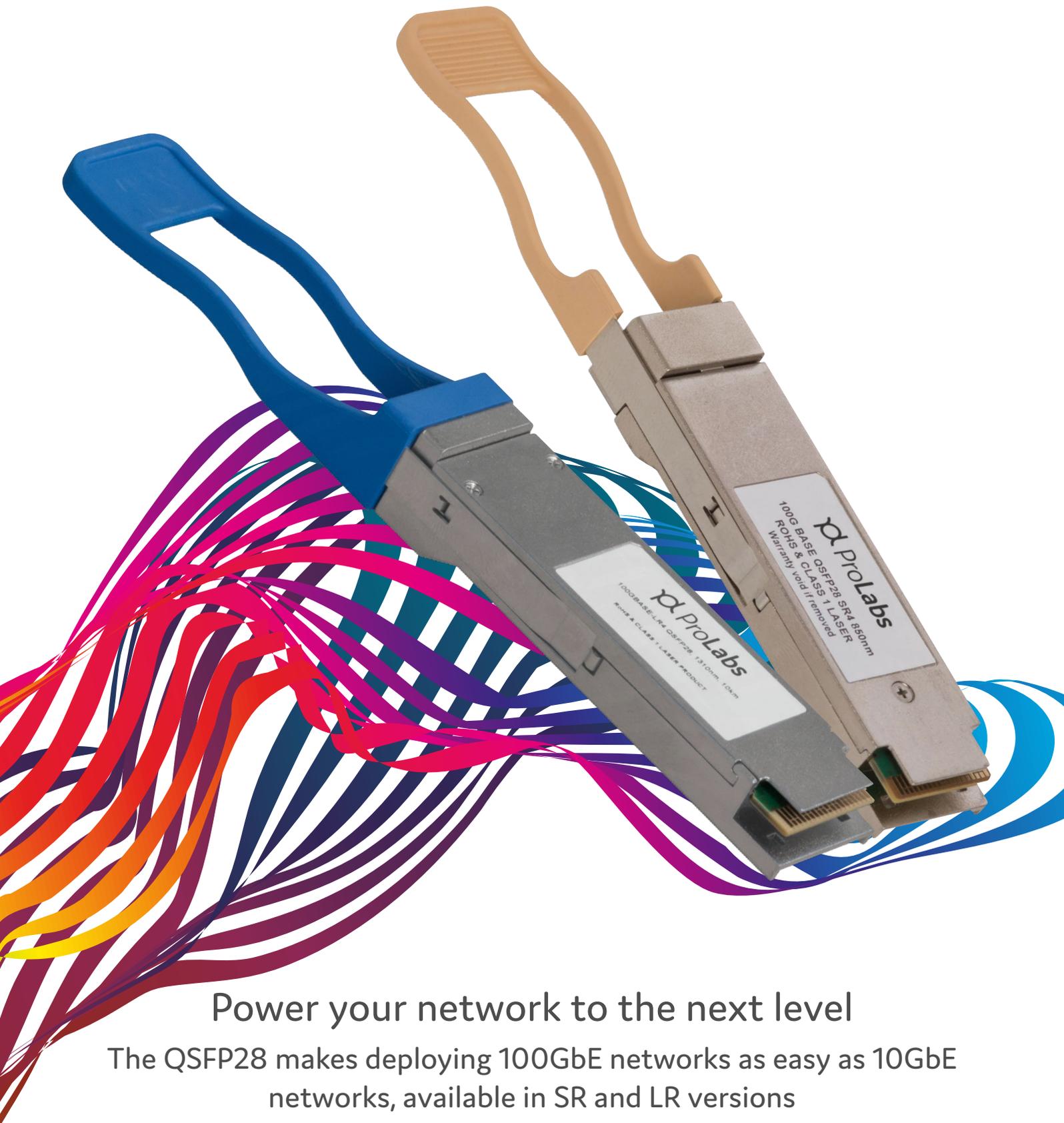ProLabs
Unlock your connectivity

100G QSFP28 Optical Transceivers

Power your network to the next level

The QSFP28 makes deploying 100GbE networks as easy as 10GbE networks, available in SR and LR versions
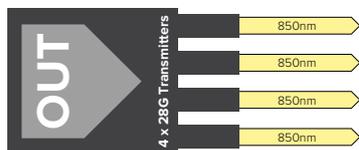
100G QSFP28 Optical Transceivers

QSFP28 transceivers make deploying 100GbE networks as easy as 10GbE networks, having a strong ability to increase density, decrease power consumption, and decrease price per bit.
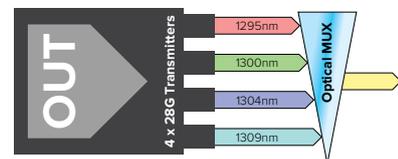
Key Product Features

QSFP28 SR4

- Compliant to IEEE 802.3bm 100GBASE-SR4
- Up to 100m OM4 MMF transmission
- Operating case temperature: 0 to 70°C
- Maximum power consumption 3.5W
- MTP/MPO optical connector
- 4 independent full duplex channels
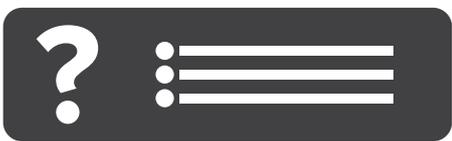- Up to 28Gb/s datarate per channel

QSFP28 LR4

- Compliant to IEEE 802.3ba 100GBASE-LR4
- Up to 10km reach for G.652 SMF
- Operating case temperature: 0 to 70°C
- Maximum power consumption 4.0W
- Duplex LC receptacle
- Transmitter: cooled 4x25Gb/s LAN WDM EML TOSA (1295.56, 1300.05, 1304.58, 1309.14nm)
- Receiver: 4x25Gb/s PIN ROSA

100GBASE-SR4 QSFP28

100GBASE-LR4 QSFP28

Key Product Benefits

- Lower power consumption compared to other form factor 100G transceivers – the maximum power consumption for SR & LR is 4.0W
- Compact form factor increases port density – the QSFP28 is even smaller than CFP4 – up to 36 QSFP's can be fitted into one switch

- Lower cost – effectively reducing cost per bit compared to other 100G solutions
- Server to switch, TOR Switch, Core Switch interconnectors can all use QSFP28
- Compatibility with Cisco, Juniper and Arista
- All versions are MSA compliant

Reasons to buy QSFP28 Transceivers

What makes QSFP28 different from QSFP+?
It has the same size form factor and the maximum number of ports as a QSFP+ transceiver, but the lane speeds are increased from 10Gbps to 25 Gbps. The increase in panel density is even more dramatic when compared to some of the other 100 Gbps form factors: 450% versus the CFP2 and 360% versus the CPAK (Cisco proprietary).

How many QSFP28's can fit into one switch?
With QSFP28 transceivers, a one rack-unit switch can accommodate up to 36 QSFP28 ports. Many more varieties of transceivers and cables can plug into these ports. The cables can plug into these ports. The cables can be either copper direct attach cables (DACs) or active optical cables (AOC's)

Which vendors will this product be compatible with?
At launch, the QSFP28 transceiver will be compatible with Cisco, Arista and Juniper.

Where is the demand driven from?
The target audience for QSFP28 transceivers is large scale data centres and carriers.

SR – Servers, switches, storage and host card adapters for Data center interconnect

LR – Same as SR for Data centers and client side 100G Telecom connections

Will it affect OEM Warranties?
Absolutely not, All ProLabs products are designed to comply with industry standard MSA (Multi-Source Agreements) and come with lifetime warranties.

Why buy from ProLabs?
▸ Competitively priced compared to OEM's

▸ Compatible with a number of vendors

▸ Short lead-times that beat the competition.

▸ Expertise – technical and product knowledge

QSFP28 Optical Transceiver Comparison

	QSFP28 SR	QSFP28 LR
Fiber Type	Multi-Mode	Single-Mode
Reach	100m over OM3 125m over OM4	10km over SMF
Transmission Type	Parallel MM (4x25G)	CWDM (4x25G)
Wavelength(s)	4 x 850nm	1295nm - 1309nm
Application	Data Centres	Data Centres Carriers
Price Point	$$	$$$$

We are passionate and dedicated

Our experience comes as standard; for over 15 years ProLabs has delivered optical connectivity solutions that give our customers freedom and choice through our ability to provide seamless interoperability. At the heart of our company is the ability to provide state-of-the-art optical transport and connectivity solutions that are compatible with over 55 optical switching and transport platforms.

Complete Portfolio of Network Solutions

ProLabs is focused on innovations in optical transport and connectivity. The combination of our knowledge of optics and networking equipment enables ProLabs to be your single source for optical transport and connectivity solutions from 100Mb to 100G while providing innovative solutions that increase network efficiencies. We provide the optical connectivity expertise that is compatible with and enhances your switching and transport equipment.

Trusted Partner

Customer service is our number one value. ProLabs has invested in people, labs and manufacturing capacity to ensure that you get immediate answers to your questions and compatible product when needed. With Engineering and Manufacturing offices in the U.K. and U.S. augmented by field offices throughout the U.S., U.K. and Asia, ProLabs is able to be our customers best advocate 24 hours a day

Would you like to know more?

info@prolabs.com

www.prolabs.com

@prolabs_global

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