Copper connectivity. Your high speed, cost effective solution

ProLabs

Unlock your connectivity

Constantly exploring and developing connectivity solutions to maximise your productivity.

While small form factor pluggable transceivers (SFP) are commonly associated with fibre optic transmission, there are circumstances where a copper interface is required. In addition to a wide array of optical SFP/SFP+ transceivers, Prolabs also offers the following RJ-45 interface copper transceivers:

10/100/1000TX – Prolabs offer both SGMII and SERDES variants of this popular transceiver with 10/100/1000Mb Link speeds over standard Cat5 and above cabling.

IEEE 802.3bz/NBase-T SFP+ - the transceiver is compliant with the IEEE 802.3bz standard and is specifically designed for high speed communication links that require 5G over Cat6a cabling or 2.5G over Cat5e cabling.

10GBASE-T Copper SFP - The PROLABS SFP-10G-T is specifically designed for high speed communication links that require 10 Gigabit Ethernet over Cat 6a/7 cable.

ProLabs copper transceiver solutions provide a cost effective way of increasing throughput over existing infrastructure without the added expense of media converters, ProLabs offers innovative solutions that enable up to 10G transmission over standard copper cabling, whist deferring the cost of new terminal equipment or structured cable upgrades.

NBase-T Copper SFP+

The NBASE-T SFP+ is specifically designed for high speed communication links that require either 2.5 or 5 gigabit Ethernet over Cat 5e/6a cabling.
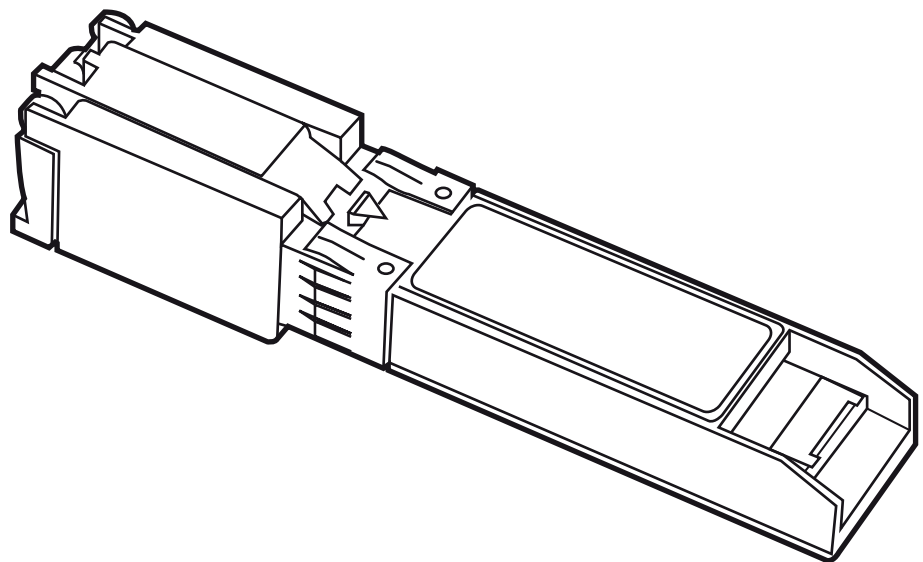
The copper transceiver module is a high performance integrated duplex device for bi-directional communication over copper cable.

It supports Links of up to 100m using Cat 5e/6a, is SFF-8431 and SFF-8432 MSA Compliant, has Lower EMI Emissions and a RJ45 Connector.

Key Product Benefits

Architecture Flexibility: Use existing Cat 5e cabling without it being a bottleneck. Enables Cat 5e to operate at data rates exceeding 1 Gbps. Works whenever there is a requirement to extend the throughput of the installed cabling infrastructure.

Allows hybrid NBASE-T/SFP+ architectures and is ideal for the upcoming deployments of Wave-2 wireless access points.
Allows utilization of current cabling assets, negating the need to run fibre to increase bandwidth. Easy upgrade from 1G, reuse structured cabling Upgrade.

10/100/1000 TX Copper SFP

The 10/100/1000 TX SFP is ideal to allow connectivity over standard cabling to devices that may not have the capability to accept SFP+ interfaces.

The copper transceiver module is a high performance integrated duplex device for bi-directional communication over copper cable.

It has up to 1.25 GB bi-directional data links, SERDES or SGMII variants and 10/100/1000Mb RJ45.

Key Product Benefits

Architecture Flexibility: Works whenever there is a requirement for Gigabit connectivity over standard cabling. Allows utilization of current cabling assets.

10G Copper SFP+

The 10GBASE-T is specifically designed for high speed communication links that require 10 gigabit Ethernet over Cat 6a/7 cable. This is the first SFP+ transceiver that offers 10Gb/s communication over this type of media.

The copper transceiver module is a high performance integrated duplex device for bi-directional communication over copper cable.

It supports Links of up to 30m using Cat 6a/7, Is SFF-8431 and SFF-8432 MSA Compliant, has lower EMI Emissions and a RJ45 Connector.

Key Product Benefits

Cost effective at up to 30m distance on UTP cables.
Equip SFP+ ports of servers/switches with 10GBASE-T SFP+.
Architecture Flexibility: Supports Top of Rack, Middle of Row or End of Row architectures.
Easy upgrade from 1G, reuse structured cabling.
Allows hybrid NBASE-T/SFP+ architectures.
Upgrade path to 25/40GBASE-T.

Is it possible to pay as you grow for Nbase-T/10G copper deployments?

As bandwidth growth moves to the network edge, decision makers will want to take advantage of the cost savings, convenience, and flexibility provided by deploying NBase-T/10 Gb/s technology over existing copper cabling infrastructure.

The NBase-T/10G Copper SFP+ modules provide the ability to incrementally add NBase-T/10G copper ports to existing network infrastructure, without capital investment to purchase new switches or upgrading cabling infrastructure.

Explain the features of Cost and Interoperability?

NBase-T/10GBASE-T technologies have the advantage of being an interoperable, standards-based technology that uses the familiar RJ45 connector and provides backwards compatibility with legacy networks.

Which vendors will these products be compatible with?

At launch, these Copper transceivers will be compatible with a wider range of the most diffused equipment vendors, including Cisco, Dell, Brocade, Arista, Juniper, Extreme and IBM.

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.

Product Information

Key products stocked locally for next day delivery. More than 4 million devices deployed globally. Advanced replacement service. Reputation for competitive pricing, flexibility, quality and reliability. Trusted supplier for long standing customers (distributors, resellers and end-users).

Visit www.prolabs.com for more connectivity solutions.

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