
Description: High-speed serial transceivers form the backbone of networks. Communications, servers and many other electronic systems depend on high-speed serial transceivers. Global adoption of the Internet is driving rapid growth of the mega datacenter. Data centers support online commerce, streaming video, social networking, and cloud services. Software as a Service (SaaS) is a primary offering.

Leading vendors offer a broad product selection. They are positioned with innovative technology. Optical module manufacturers address the needs of all major networking equipment vendors worldwide. Leading vendors have taken a leading role in transforming the data communications and tele-communications equipment market.

The shift has been away from utilizing discrete optical components to leveraging the design and pay-as-you-grow flexibility offered by pluggable modules. Optical transceiver products are compliant with Ethernet, Fibre Channel, SONET/SDH/OTN and PON standards. They generally operate at data rates of 10 Gb/s, 40 Gb/s and 100 Gb/s.

Transmitter / Transceivers are capable of distances ranging from very short reach within a datacenter to campus, access, metro, and long-haul reaches. They feature outstanding performance. Units work over extended voltage and temperature ranges. They are positioned to minimize jitter, electromagnetic interference (EMI) and power dissipation.

Optical transceiver components are an innovation engine for the network. Optical transceiver components support and enable low-cost transport throughout the network. Optical transceivers are needed for high speed network infrastructure build-outs. These are both for carriers and data centers. Network infrastructure build-out depends on the availability of consultants who are knowledgeable.

The global optical transceiver market at $3.2 billion in 2013 is anticipated to grow to $9.9 billion by 2020 driven by the availability and cost effectiveness of 40 Gbps, 100 Gbps, and 400 Gbps devices. Next generation devices use less power, are less expensive, and are smaller. The adoption of widespread use of the 100 Gbps devices, and the vast increases in Internet traffic are core to change in the communications infrastructure markets.

This is the 602nd report in a series of market research reports that provide forecasts in communications, telecommunications, the internet, computer, software, and telephone equipment. The project leaders take direct responsibility for writing and preparing each report. They have significant experience preparing industry studies. Forecasts are based on primary research and proprietary data bases. Forecasts reflect analysis of the market trends in the segment and related segments. Unit and dollar shipments are analyzed through consideration of dollar volume of each market participation in the segment. Market share analysis includes conversations with key customers of products, industry segment leaders, marketing directors, distributors, leading market participants, and companies seeking to develop measurable market share. Over 200 in-depth interviews are conducted for each report with a broad range of key participants and opinion leaders in the market segment.

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