

Optical Transceiver, Transmitter, Receiver, and Transponder Components: Market Shares, Strategies, and Forecasts, Worldwide, 2013 to 2019

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Abstracts

WinterGreen Research announces that it has published a new study Optical Transceivers: Market Shares, Strategy, and Forecasts, Worldwide, 2013 to 2019. The 2013 study has 453 pages, 130 tables and figures. Worldwide optical transceiver markets are poised to achieve significant growth as the data in networks expands exponentially. As cloud systems proliferate and wireless data takes hold the efficiencies brought by high speed end-to-end optical networks are needed by carriers and in the data center.

According to Susan Eustis, lead author of the study, 'Optical transceivers are used to update the communications networks to manage broadband, to update the data center networks to make them manage traffic with higher speeds, to implement the backbone network for mobile communications. Everything is going mobile. This evolution is driven by mobile smart phones and tablets that provide universal connectivity. With 6 million cell phones in use and one million smart phones, soon to be 6 million smart phones, a lot of people have access to mobile communication. Video, cloud-based services, the internet, and machine-to-machine (M2M) provide mobile connectivity. All these devices are networked and drive significant traffic to the broadband network, stimulating the need for optical transceivers.'

The Optical Transport Network (OTN) is a set of optical network elements connected by optical fiber links. Optical network elements provide transport, multiplexing, switching, management, supervision and survivability of communication channels. Carrier Ethernet is emerging. Optical transceiver, transmitter, receiver, and transponders support the implementation of the new network capacity.

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.

Consultants with extensive experience are needed to bring optical component network design, installation, upgrade and maintenance into development. Optical components are being used to equip data centers, FTTx, metro access or core networks. They are used for long-haul and WAN.

A palette of pluggable optical transceivers includes GBIC, SFP, XFP, SFP+, X2, CFP form factors. These are able to accommodate a wide range of link spans. Vendors work closely with network planners and infrastructure managers to design high speed optical transport systems.

Optical transceivers are evolving that are compliant with the 10Gbps Small Form Factor Pluggable (XFP) Multi-Source Agreement (MSA) specification for next generation optical transceiver devices. The 10Gbps optical transceiver can be used in telecom and datacom (SONET/SDH/DWDM/Gigabit Ethernet) applications to change an electrical signal into an optical signal and vice versa.

The 10Gbps optical transceiver is generally compliant with XENPAK Multi-Source Agreement (MSA) specification for next generation optical transceiver.

A typical 1550nm chirp managed directly modulated laser is in a butterfly package and is used for 10G/200km. A solution for upgrading metro networks to 10Gbps is enabled by the transceivers. New components are more tolerant of dispersion. They provide a smaller footprint, lower power consumption, and cost savings for equipment vendors.

Optical transceiver market driving forces relate to the increased traffic coming from the Internet. The optical transceiver signal market is intensely competitive. There is increasing demand optical transceivers as communications markets grow in response to more use of smart phones and more Internet transmission of data. The market for network infrastructure equipment and for communications semiconductors offers attractive long-term growth:

There is expected to be tremendous investment in wireless cell tower base stations as the quantity of network traffic grows exponentially. Carriers worldwide are responding to

the challenges brought by the massive increase in wireless data traffic. The advent of big data and exponential growth of data managed by the enterprise data centers is a significant market factor.

The global optical transceiver market will grow to \$6.7 billion by 2019 driven by the availability of 100 Gbps devices and the vast increases in Internet data traffic.

Internet traffic growth comes from a variety of sources, not the least of which 1.6 billion new smart phones sold per year. Smartphone market growth is causing the need for investment in backhaul and cell tower technology.

Worldwide optical transport market revenues are forecast to grow through 2019. This is in the context of a world communications infrastructure that is changing. Technology is enabling interaction, innovation, and sharing of knowledge in new ways.

Contents

OPTICAL TRANSCEIVER EXECUTIVE SUMMARY

Optical Transceiver Components Market Driving Forces

Optical Transceivers

Optical Transceiver Market Driving Forces

Ongoing Transition To Media For Communications

Optical Transceiver Key Themes

Optical Component Transceiver Market Shares

1. OPTICAL TRANSCEIVER MARKET DESCRIPTION AND MARKET DYNAMICS

1.1 Growth Of The Global Economy Becomes Steadily More Sluggish

1.1.1 Global Economic Conditions Impact Optical Transceivers

1.2 Enterprise Information Accessed By Mobile Workers

1.2.1 Cloud Technology Brings Rapid Time to Value

1.3 Optical Transceiver Applicable Networks

1.3.1 Carrier Networking

1.3.2 Data Centers

1.3.3 Data Center Storage

1.4 Transceiver Definitions

1.5 Customer Plans for Optical Network Implementation

1.5.1 AT&T As An Optical Component Customer

1.5.2 AT&T Fiber Networks Provide Backbone Connectivity To Data Center

1.5.3 AT&T Voice Over IP (VoIP)

1.5.4 AT&T Optical Network Investment

1.5.5 Financial Centers Invest in Optical Networking

1.5.6 JPMorgan Chase spends \$500 Million To Build A Data Center

1.5.7 Verizon Investment in Optical Networks

1.5.8 Verizon Investment in Data Center Networks

1.5.9 NTT Com Operation Of A Route That Connects Europe and Japan

1.5.10 Deutsche Telekom Application Delivery Network

1.6 Exponential Improvement In Silicon Manufacturing Will Soon Give Rise To Chips Containing One Billion Transistors

1.6.1 Moore's law and Silicon Manufacturing

1.6.2 Failure of Chip I/O To Scale With Exponential Improvement In Silicon Manufacturing

2. OPTICAL TRANSCEIVER MARKET SHARES AND FORECASTS

2.1 Optical Transceiver Components Market Driving Forces

2.2 Optical Transceivers

2.2.1 Optical Transceiver Market Driving Forces

2.2.2 Ongoing Transition To Media For Communications

2.2.3 Optical Transceiver Key Themes

2.3 Optical Component Transceiver Market Shares

2.3.1 JDS Uniphase

2.3.2 Finisar

2.3.3 Oclaro

2.3.4 Oclaro Transceivers

2.3.5 Oclaro Acquisition Of Opnext Extends Leadership Position

2.3.6 NEC Optical Communications

2.3.7 Oclaro Acquires Mintera

2.3.8 Oclaro/Opnext

2.3.9 Source Photonics

2.3.10 Reflex's 100GbE

2.3.11 Cube Optics

2.3.12 Transmode XFP Uses

2.3.13 Menara Networks Tunables

2.3.14 GigOptix

2.3.15 GigOptix Maximum Power Rating For An XFP

2.3.16 Avago Technologies

2.3.17 Luxtera

2.4 Optical Component Transceiver Market Forecasts

2.4.1 Optical Transceiver Market, Speeds 1 Gbps and less

2.4.2 Optical Transceiver Market, Speeds 10 Gbps

2.4.3 Optical Transceiver Market, Speeds 40 Gbps

2.4.4 Optical Transceiver Market, Speeds 100 Gbps And More

2.4.5 Optical Transceiver Market Industry Segments, Carrier and Data Center

Networking

2.4.6 Impact of Cloud and Virtualization on Network Performance

2.4.7 10G, 40GBPS and 100GBPS Optical Transceiver Market

2.4.8 Optical Transceiver Form Factors

2.4.9 Component Needs For Next-Generation Fixed And Mobile Access

2.4.10 40G, 100GBPS Transceiver Shipments Evolving; Utilities Hone In On M2M

2.4.11 Managing 10GBPS While Preparing For 40Gbps and 100Gbps

2.4.12 100Gbps Optical Transceivers

2.4.13 Using 10 Gbps Devices To Implement 40 Gbps and 100 Gbps Port Capacity

2.4.14 Need For More Compact Pluggables Than The CFP

2.4.15 Tunable XFP Optical Transceivers

2.4.16 Utilities Hone In On M2M Cellular Communications Nodes/Optical Transceiver

Market

2.4.17 Types of Transceiver

2.4.18 Telecom Transceivers

2.4.19 High-Speed Optical Receiver Market

2.4.20 CFP MSA for 40 and 100 GiGbps

2.4.21 Managing 10Gbps While Preparing For 40Gbps And 100Gbps

2.4.22 Networks Moving To Embrace An Ethernet Protocol

2.4.23 Modulation 2-57

2.4.24 40Gbps Coherent Channel Position Must Be Managed

2.4.25 100Gbps modules vs. 40Gbps Modules

2.4.26 Carrier Networking

2.4.27 Enterprise Networking

2.4.28 Return on Investment (ROI) of Component Needs For Next-Generation Fixed And Mobile Access

2.4.29 Technological Trends and Vendor Consolidation Impact Carriers Push for 100Gbps Transponders

2.5 Smart Phone Business

2.5.1 Smart Phone Market Forecasts

2.5.2 Measuring Cost -Per-Bit-Per-Kilometer

2.6 Optical Component Transceiver Prices

2.6.1 Avago Technologies Fiber Optic Transceiver Cost structures

2.7 Optical Component Transceiver Regional Market Segments

2.7.1 Finisar Net Regional Sales

2.7.2 JDSU Regional Revenue

2.7.3 Oclaro Regional Sales

3. OPTICAL TRANSCEIVER PRODUCT DESCRIPTION

3.1 Finisar Transmitter/Transceivers

3.1.1 Finisar DM200-01

3.1.2 Finisar DM200-02

3.1.3 Finisar DM80-01

3.1.4 Finisar DM80-02

3.2 Finisar

3.2.1 Finisar S7500

3.2.2 Finisar S7610

3.3 JDSU Ethernet/Fibre Channel Transceivers

3.3.1 JDSU Transceiver, 10 GbE Compatible, SFP+, 850 nm, Limiting

3.3.2 JDSU Transceiver, 10 GbE Compliant, SFP+, 1310 nm, Limiting

3.3.3 JDSU Transceiver, 10 GbE, 10 GFC, XFP, 850 nm

3.3.4 JDSU Transceiver, 10 GbE, 10 GFC, XFP, 850 nm, CRET

3.3.5 JDSU SONET/SDH Transceivers

3.3.6 JDSU Transceiver, 100 Mb/s to 3.1 Gb/s, SFP, DWDM, 1550 nm, 180 km Reach

3.3.7 JDSU Transceiver, 155 Mb/s to 3.1 Gb/s, OC-48 SR, SFP, 1310 nm FP, 2 km

Reach

3.3.8 JDSU Transceiver, 2.5 Gb/s OC-48, Multirate, SFP, CWDM

3.4 Oclaro TRC5E20ENF-xx000/TRC5E20FNF-xx000

3.4.1 Oclaro LD5038

3.4.2 Oclaro LD7064

3.4.3 Oclaro Tier-One Provider Volume Production For Integrated 100 Gbps PM-QPSK MSA Transceiver Module

3.5 Sumitomo

3.5.1 Sumitomo 10Gbps XFP Transceivers

3.5.2 Sumitomo SC Duplex Transceivers

3.5.3 Sumitomo Digital Transmission

3.6 Fujitsu

3.6.1 Fujitsu 100GE CFP Transceiver

3.6.2 Fujitsu XFP Transceiver

3.6.3 Fujitsu XENPAK Transceiver

3.7 Advanced-Connectek/Acon Transceivers

3.8 Broadcom VariRate Multirate Transceiver with SONET Rate Adaptation and PM

3.9 Oplink

3.9.1 Oplink Switching/Routing

3.10 Avago Technologies Fiber Optic Transceivers

3.10.1 Avago AFCT-5750ALZ Transceiver

3.10.2 Avago HFBR-5208MZ Transceiver

3.10.3 Avago AFCT-5755APZ

3.11 Emcore J-Type Medallion 6000 Series Transmitter

3.11.1 Emcore 2809 CATV Receiver

3.12 Source Photonics

3.13 GigOptix

3.13.1 GigOptix

3.14 NeoPhotonics FTTH Transceivers

3.14.1 NeoPhotonics NGPON OLT/ONU

- 3.14.2 NeoPhotonics Compact SFP
- 3.14.3 NeoPhotonicsTelecom Transceivers
- 3.14.4 Neophotonic XFP Transceivers
- 3.14.5 NeoPhotonic SFP+ Transceivers
- 3.14.6 NeoPhotonix Sonet/SDH Transceivers
- 3.14.7 NeoPhotonix Transceivers
- 3.15 NEC Optical Communications
 - 3.15.1 NEC Optical Transceivers for Backbone Network
 - 3.15.2 NEC Optical Transceivers for Client interface
 - 3.15.3 NEC Optical Transceivers for Access Network
- 3.16 Delta
- 3.17 Altera
- 3.18 Beyond Optics
 - 3.18.1 Beyond Optics GBIC Module Compatibility
- 3.19 Reflex Photonics
 - 3.19.1 Reflex Photonics CFP Parallel Optical Modules
 - 3.19.2 Reflex Photonics QSFP+ Transceiver 3-83
 - 3.19.3 Reflex Photonics Specifications and Features Highlights
 - 3.19.4 Reflex Photonics
 - 3.19.5 Reflex Photonics SNAP12 Parallel Optical Modules
 - 3.19.6 Reflex Photonics LightABLE
- 3.20 Cube Optics
- 3.21 Menara Networks
 - 3.21.1 Menara OTN XFP 10Gb/s Transceiver with Integrated G.709 and FEC
 - 3.21.2 Menara Networks Tunable OTN XFP 10Gb/s Transceiver with Integrated G.709 and FEC
 - 3.21.3 Menara OTN XENPAK 10Gb/s Transceiver with Integrated G.709 and FEC
 - 3.21.4 Menara Networks OTN XFP DWDM transceiver Description

4. OPTICAL TRANSCEIVER TECHNOLOGY

- 4.1 CFP vs. CXP Transmitter And Receiver Capabilities
 - 4.1.1 CFP Form Factor
 - 4.1.2 Finisar Opnext and Sumitomo Electric Industries/Excelight Communications CFP
 - 4.1.3 CFP MSA Form Factor Standard for Pluggable 40Gb/s and 100Gb/s Optical Modules
 - 4.1.4 CXP Form Factor
 - 4.1.5 CXP GigOptix Long Reach And Ultra Long Reach Drivers For Terrestrial And Undersea Optical Cable

4.2 IEEE802 Standards Bodies

4.2.1 ITU-T CWDM/DWDM Optical Wavelength Grids

4.2.2 100-Gigabit Ethernet (IEEE 802.3.ba Specifications)

4.3 WDM-PON Technologies

4.3.1 PON Progress

4.3.2 GPON and WDM-PON

4.3.3 10G GPON

4.4 Phase Modulation Minimizes Size And Power Of 40Gbps Transponders

4.4.1 Europe Scalable Advance Ring-Based Passive Dense Access Network Architecture (SARDANA)

4.4.2 Fujitsu Optical Components Key Technology

4.5 FTTx Device Management

4.6 Finisar Technology

5. OPTICAL COMPONENTS COMPANY DESCRIPTION

5.1 3SP Group

5.1.1 3S Photonics Group becomes 3SPGroup

5.2 Accelink

5.2.1 Accelink Global Sales

5.3 ACON

5.4 Advanced Photonix

5.4.1 Advanced Photonix - Picometrix, LLC

5.4.2 Advanced Photonix Revenue

5.4.3 Advanced Photonix Development Systems and Strategic Relationship with Appleton Papers

5.5 Agilent Technologies

5.6 Alcatel-Lucent

5.6.1 Organization

5.6.2 Alcatel-Lucent Innovation & Technology

5.6.3 Alcatel-Lucent History

5.7 Analog Devices

5.7.1 Analog Devices Focus On Key Strategic Markets

5.7.2 Analog Devices Broad Line Of High-Performance ICs

5.7.3 Analog Devices Digital Signal Processing Products

5.7.4 Analog Devices Revenue

5.7.5 Analog Devices Revenue Trends by End Market

5.7.6 Analog Devices Industrial

5.7.7 Analog Devices Automotive

- 5.7.8 Analog Devices Consumer
- 5.7.9 Analog Devices Communications
- 5.7.10 Analog Devices Markets and Applications
- 5.7.11 Analog Devices Industrial and Instrumentation Segments
- 5.7.12 Analog Devices Defense/Aerospace Segment
- 5.7.13 Analog Devices Energy Management Segment
- 5.7.14 Analog Devices Healthcare Segment
- 5.7.15 Analog Devices Automotive Segment
- 5.7.16 Analog Devices Consumer Segment
- 5.7.17 Analog Devices Communications Segment
- 5.7.18 Analog Devices Segment Financial Information and Geographic Information
- 5.7.19 Analog Devices Revenue Trends by Product Type
- 5.7.20 Analog Devices Revenue Trends by Geographic Region
- 5.7.21 Analog Devices Sales by Regional Segment
- 5.8 Avago Technologies
 - 5.8.1 Avago Technologies Announces Enhancements to Versatile Link Plastic Optical Fiber Product Family
 - 5.8.2 Avago Revenue
- 5.9 Broadcom
 - 5.9.1 Broadcom Digital Subscriber Line (DSL)
 - 5.9.2 Broadcom Revenue
 - 5.9.3 Broadcom Broadband Communications Solutions
 - 5.9.4 Broadcom Mobile & Wireless (Solutions for the Hand)
 - 5.9.5 Broadcom Infrastructure & Networking (Solutions for Infrastructure)
 - 5.9.6 Broadcom Customers and Strategic Relationships
- 5.10 Cube Optics
- 5.11 Emcore
 - 5.11.1 EMCORE Revenue Third Quarter Ended June 30, 2012
- 5.12 Finisar
 - 5.12.1 Finisar Wavelength Selective
 - 5.12.2 Finisar's Industry-Leading Optical Products
 - 5.12.3 Finisar Net Sales
 - 5.12.4 Finisar Optical Subsystems And Components
 - 5.12.5 Mobile Traffic Is Increasing
 - 5.12.6 Finisar Revenue
 - 5.12.7 Finisar Business Strategy
 - 5.12.8 Finisar Ten Largest Customers
 - 5.12.9 Finisar Customers
 - 5.12.10 Finisar/Ignis

- 5.12.11 Sytune (Acquired by Ignis/Finisar)
- 5.13 Foxconn Technology Group
 - 5.13.1 Foxconn eCMMS Model
- 5.14 Fujitsu Next Generation 100GbE Optical Transceiver
- 5.15 Furukawa Electric Business Segments
 - 5.15.1 Furukawa Electric Pump Laser Modules And Signal Laser Modules
 - 5.15.2 Furukawa Electric Co., Ltd. Revenue
- 5.16 Gigoptix
 - 5.16.1 Gigoptix Segment And Geographic Information
 - 5.16.2 GigOptix Has Incurred Negative Cash Flows
- 5.17 Huawei
 - 5.17.1 Huawei Vision & Mission
 - 5.17.2 Huawei Strategy
 - 5.17.3 Huawei Financial Highlights
 - 5.17.4 Huawei Corporate Governance
 - 5.17.5 Huawei Research & Development
 - 5.17.6 Huawei Cyber Security
 - 5.17.7 Huawei Milestones
 - 5.17.8 Huawei Annual Report
- 5.18 Ikanos
 - 5.18.1 Ikanos Markets
- 5.19 JDSU
 - 5.19.1 JDSU Revenue
 - 5.19.2 JDSU Communications and Commercial Optical (CCOP) Products
 - 5.19.3 JDSU Customers
 - 5.19.4 JDSU Advanced Optical Technologies
 - 5.19.5 JDSU Innovation
 - 5.19.6 JDSU Market Strategy
 - 5.19.7 JDSU Strategy
 - 5.19.8 JDSU Acquisition of Dyaptive Systems and QuantaSol Limited
 - 5.19.9 JDSU Expands Global Market Presence
 - 5.19.10 JDSU Optical Thin Film Coatings and Components
 - 5.19.11 JDSU Optical Communications
 - 5.19.12 JDSU Test and Measurement
 - 5.19.13 JDSU Lasers
 - 5.19.14 JDSU Advanced Optical Technologies
 - 5.19.15 JDSU Customers
 - 5.19.16 JDSU Optical Communications Equipment Customers
 - 5.19.17 JDSU View of Long-Term Trends

- 5.19.18 JDSU Photonic Power and Photovoltaics
- 5.20 Luxtera
 - 5.20.1 Luxtera and STMicroelectronics to Enable High-Volume Silicon Photonics Solutions
- 5.21 Menara Networks
- 5.22 MRV
- 5.23 NEC
 - 5.23.1 NEC Supplies Government Agencies
 - 5.23.2 NEC Revenue
- 5.24 NeoPhotonics
 - 5.24.1 Neophotonics Customers
 - 5.24.2 Neophotonics Revenue
 - 5.24.3 NeoPhotonics PIC-Based Products
 - 5.24.4 NeoPhotoni: Huawei Technologies Key Customer
 - 5.24.5 NeoPhotonix Global Customer Base
 - 5.24.6 NeoPhotonics
 - 5.24.7 NeoPhotonics Announces New FTTH Component Technology
- 5.25 NTT
- 5.26 Oclaro
 - 5.26.1 Oclaro Vision
 - 5.26.2 Oclaro Optical Components, Modules And Subsystems
 - 5.26.3 Oclaro Market Focus
 - 5.26.4 Optical Communications
 - 5.26.5 Oclaro Product Portfolio
 - 5.26.6 Oclaro Business Strategy
 - 5.26.7 Oclaro Worldwide Support and Manufacturing Strength
 - 5.26.8 Oclaro Segment Sales 5-138
 - 5.26.9 Oclaro 2013 First Fiscal Quarter Revenues
 - 5.26.10 Oclaro/Opnext
 - 5.26.11 Oclaro Acquires Mintera
 - 5.26.12 Oclaro
- 5.27 Oplink
 - 5.27.1 Oplink Fourth Quarter And Fiscal Year 2012 Revenue
- 5.28 Photon-X
- 5.29 POLYSYS
- 5.30 Reflex Photonics
- 5.31 Rohm Semiconductor
- 5.32 Santec Creating Optopia
 - 5.32.1 Santec ICC

- 5.32.2 Santec Satellite Organization System
- 5.33 Source Photonics
 - 5.33.1 Source Photonics and China Mobile Communications
- 5.34 Sumitomo
 - 5.34.1 Sumitomo Revenue
 - 5.34.2 Sumitomo Strategy
 - 5.34.3 Sumitomo Electric Europe
- 5.35 Triquint
 - 5.35.1 Triquint Innovation
 - 5.35.2 New Dual-Channel SMT Driver Sets High Performance Standards
- 5.36 Transmode
 - 5.36.1 Transmode Revenue
- 5.37 Vitesse0
- 5.38 Zhong Technologies
- 5.39 Other Optical Component Companies
 - 5.39.1 JDSU Competition
 - 5.39.2 Advanced Photonix Competition
 - 5.39.3 Oclaro Competition
 - 5.39.4 Finisar Competition

List Of Tables

LIST OF TABLES AND FIGURES

Table ES-1 Optical Transceiver Market Aspects

Table ES-2 Optical transceiver Market Driving Forces

Figure ES-3 Optical Component Transceiver, Transmitter, Receiver, and Transponder Market Shares, Dollars, Worldwide, First Three Quarters, 2012

Figure ES-4 Optical Component Transceiver, Transmitter, Receiver, and Transponder Market Shares, Dollars, Worldwide, 2011

Table ES-5 Optical Transceiver Market, Dollars, Worldwide, 201ES-2018

Figure 1-1 Optical Transceiver Applicable Networks

Figure 1-2 NTT Communications Global IP Network

Table 1-3 Ways To Increase Electrical Processor Chip I/O Bandwidth

Table 2-1 Optical Transceiver Market Aspects

Table 2-2 Optical transceiver Market Driving Forces

Figure 2-3 Optical Component Transceiver, Transmitter, Receiver, and Transponder Market Shares, Dollars, Worldwide, First Three Quarters, 2012

Figure 2-4 Optical Component Transceiver, Transmitter, Receiver, and Transponder Market Shares, Dollars, Worldwide, 2011

Table 2-5 Optical Component Transceiver, Transmitter, Receiver, and Transponder Market Shares, Dollars, Worldwide, 2011 and First Three Quarters 2012

Figure 2-6 JDS Uniphase's Tunable XFP

Figure 2-7 NEC High Speed WAN, FTTX, and Datacom Network Implementation

Figure 2-8 Oclaro/Mintera Optical Transceiver

Table 2-9 GigOptix GX3222B Key Features

Table 2-10 Optical Transceiver Market, Dollars, Worldwide, 2013-2019

Table 2-11 Optical Transceiver Market, Dollars, Worldwide, 2013-2019

Table 2-12 Optical Transceiver Market, Speeds 1 Gbps and less, 10 Gbps, 40 Gbps, and 100 Gbps and More, Dollars, Worldwide, 2013-2019

Table 2-13 Optical Transceiver Market, Speeds less than 1 Gbps, 1 Gbps to 10 Gbps, 40 Gbps, and 100 Gbps and more, Percent, Worldwide, 2013-2019

Table 2-14 Optical Transceiver Market, Speeds 1 Gbps and less, Dollars, Worldwide, 2013-2019

Table 2-15 Optical Transceiver Market, Speeds 10 Gbps, Dollars, Forecasts, Worldwide, 2013-2019

Table 2-16 Optical Transceiver Market, Speeds 40 Gbps, Dollars, Worldwide, 2013-2019

Table 2-17 Optical Transceiver Market, Speeds 100 Gbps And More, Dollars,

Worldwide, 2013-2019

Table 2-18 Optical Transceiver Market Total Industry Segments, Carrier/Service Provider, Ethernet Access, Data Center, Dollars and Percent, Worldwide, 2013-2019

Table 2-19 Optical Transceiver Market Industry Segments, Carrier and Service Provider Fiber to the X, Carrier Ethernet, and Data Center Networking, Dollars, Worldwide, 2013-2019

Table 2-20 Optical Transceiver Market Industry Segments, Carrier and Service Provider Fiber to the X, Carrier Ethernet, and Data Center Networking, Percent, Worldwide, 2013-2019

Table 2-21 40G, 100GBPS Transceiver Target Markets

Figure 2-22 Smart Phone Handset Market Forecasts, Units, Worldwide, 2013-2019

Figure 2-23 Optical Transceiver Regional Market Segments, Dollars, 2012

Table 2-24 Optical Transceiver Regional Market Segments, Dollars, 2012

Figure 3-1 Finisar DM200-01

Table 3-2 Finisar DM200-01

Figure 3-3 Finisar DM200-02

Table 3-4 Finisar DM200-02

Figure 3-5 Finisar DM80-01

Table 3-6 Finisar DM80-01

Figure 3-7 Finisar DM80-02

Table 3-8 Finisar DM80-02

Figure 3-9 Finisar S7500

Table 3-10 Finisar S7500/Finisar S7610

Figure 3-11 JDSU Transceiver, 10 GbE Compatible, SFP+, 850 nm, Limiting

Table 3-12 JDSU Transceiver, 10 GbE Compatible, SFP+, 850 nm, Limiting Features

Figure 3-13 JDSU Transceiver, 10 GbE Compliant, SFP+, 1310 nm, Limiting

Table 3-14 JDSU Transceiver, 10 GbE Compliant, SFP+, 1310 nm, Limiting

Figure 3-15 JDSU Transceiver, 10 GbE, 10 GFC, XFP, 850 nm

Table 3-16 JDSU Transceiver, 10 GbE, 10 GFC, XFP, 850 nm

Table 3-17 JDSU Transceiver, 10 GbE, 10 GFC, XFP, 850 nm, CRET

Figure 3-18 JDSU Transceiver, 100 Mb/s to 3.1 Gb/s, SFP, DWDM, 1550 nm, 180 km Reach

Table 3-19 JDSU Transceiver, 100 Mb/s to 3.1 Gb/s, SFP, DWDM, 1550 nm, 180 km Reach

Figure 3-20 JDSU Transceiver, 155 Mb/s to 3.1 Gb/s, OC-48 SR, SFP, 1310 nm FP, 2 km Reach

Table 3-21 JDSU Transceiver, 155 Mb/s to 3.1 Gb/s, OC-48 SR, SFP, 1310 nm FP, 2 km Reach

Figure 3-22 JDSU Transceiver, 2.5 Gb/s OC-48, Multirate, SFP, CWDM

Table 3-23 JDSU Transceiver, 2.5 Gb/s OC-48, Multirate, SFP, CWDM

3-24 Oclaro TRC5E20ENF-xx000/TRC5E20FNF-xx000 Features

Table 3-25 Oclaro LD5038 Features

Table 3-26 Oclaro LD7064 Features

Figure 3-27 Sumitomo 10Gbps XFP Transceivers

Table 3-28 Sumitomo 10Gbps XFP Transceivers Features

Table 3-29 Sumitomo SC Duplex Transceivers Features

Table 3-30 Sumitomo Digital transmission Features

Figure 3-31 Fujitsu 100GE CFP Transceiver

Table 3-32 Fujitsu 100GE CFP Transceiver

Figure 3-33 Fujitsu XFP Transceiver

Table 3-34 Fujitsu XFP Transceiver Features

Figure 3-35 Fujitsu XENPAK Transceiver

Table 3-36 Fujitsu XENPAK Transceiver Features

Figure 3-37 Acon Transceivers

Table 3-38 Acon Transceivers Features

Table 3-39 Broadcom VariRate Multirate Transceiver with SONET Rate Adaptation and PM Features

Figure 3-40 Avago AFCT-5750ALZ

Table 3-41 Avago AFCT-5750ALZ Optical Transceivers Features

Figure 3-42 Avago HFBR-5208MZ Optical Transceiver

Table 3-43 Avago HFBR-5208MZ Features

Figure 3-44 Avago AFCT-5755APZ Optical Transceivers

Table 3-45 Avago AFCT-5755APZ Optical Transceiver Features

Figure 3-46 Emcore J-Type Medallion 6000 Series

Table 3-47 Emcore J-Type Medallion 6000 Series Features

Figure 3-48 Emcore 2809 CATV Receiver

Table 3-49 Emcore 2809 CATV Receiver Features

Table 3-50 GigOptix GX3222B Key Features

Figure 3-51 NeoPhotonics NGPON OLT/ONU

Table 3-52 NeoPhotonics NGPON OLT/ONU Features

Figure 3-53 NeoPhotonics Compact SFP

Table 3-54 NeoPhotonics Compact SFP Features

Table 3-55 Neophotonic XFP Transceivers Features

Figure 3-56 NeoPhotonic SFP+ Transceivers

Table 3-57 NeoPhotonic SFP+ Transceivers Features

Table 3-58 Beyond Optics Fiber Optic Transceivers

Figure 3-59 Beyond Optics Fiber Optic Transceivers

Figure 3-60 Menara Transceiver Network

Figure 3-61 Menara Transparent And Efficient OTN Transport Across The Network

Table 3-62 Menara OTN XFP Features

Table 3-63 Menara Tunable OTN XFP Features

Table 3-64 Menara OTN XENPAK Features

Table 3-65 Menara Networks OTN XFP DWDM Transceiver Applications

Table 3-66 Menara Networks OTN XFP DWDM Transceiver Features

Figure 4-1 Explosion of Protocols

Table 4-2 10G GPON Intermediate GPON Technology Development Equipment Vendor Support

Table 4-4 Motorola GPON Optical Network Terminal (ONT) Features

Table 4-5 ONT Product-Portfolio Development Functions

Table 5-1 ACON Vision

Table 5-2 Advanced Photonix Target Markets And Applications

Figure 5-3 Picometrix, LLC

Table 5-4 Analog Devices Embedded In Electronic Equipment

Table 5-5 Analog Devices Industrial And Instrumentation Market Applications

Table 5-6 Analog Devices Defense/Aerospace Products

Table 5-7 Analog Devices Energy Management Segment Products

Table 5-8 Analog Devices Healthcare Segment Innovative Crosspoint Switch Technologies

Table 5-9 Analog Devices Green Automotive Segment

Table 5-10 Analog Devices Safety Automotive Segment

Table 5-11 Analog Devices Comfort Automotive Segment

Table 5-12 Analog Devices Communications Segment Systems

Table 5-13 Analog Devices Crosspoint Switches

Figure 5-14 Avago

Table 5-15 Broadcom Broadband Communications Solutions

Table 5-16 Broadcom Customers and Strategic Relationships

Figure 5-17 Emcore

Table 5-18 Finisar Business Strategy

Figure 5-19 Cumulative Broadband Subscribers

Figure 5-20 JDSU Tunable XFP

Table 5-21 JDSU Market Strategy

Table 5-22 NeoPhotonix Global Customer Base Of Network Equipment Vendors

Table 5-23 Oclaro Competitive Positioning

Table 5-24 Rohm Goals for Education and Training

Figure 5-25 Source Photonics Global Presence, Global Scale: Facilities

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