

Wavelength Division Multiplexing (WDM) Equipment: Market Research Report

<https://marketpublishers.com/r/W7C83635958EN.html>

Date: January 2015

Pages: 265

Price: US\$ 4,500.00 (Single User License)

ID: W7C83635958EN

Abstracts

This report analyzes the worldwide markets for Wavelength Division Multiplexing (WDM) Equipment in US\$ Million. The report provides separate comprehensive analytics for the US, Canada, Japan, Europe, Asia-Pacific, Middle East & Africa, and Latin America. Annual estimates and forecasts are provided for the period 2014 through 2020. Also, a four-year historic analysis is provided for these markets. Market data and analytics are derived from primary and secondary research. Company profiles are primarily based on public domain information including company URLs. The report profiles 107 companies including many key and niche players such as -

ADTRAN Inc.

ADVA Optical Networking SE

Alcatel-Lucent

Aliathon Technology Ltd.

Ciena Corporation

Contents

I. INTRODUCTION, METHODOLOGY & PRODUCT DEFINITIONS

Study Reliability and Reporting Limitations
Disclaimers
Data Interpretation & Reporting Level
Quantitative Techniques & Analytics
Product Definitions and Scope of Study

II. EXECUTIVE SUMMARY

1. INDUSTRY OVERVIEW

A Prelude
Growing Uptake of 100G & Ultra-100G WDM OTN to Fuel Revenue Growth
Rapidly Growing FTTx Deployments Spur Demand for WDM Equipment
Market Outlook
Asia-Pacific: The Hotspot for Future Market Growth
Competitive Scenario

2. MARKET TRENDS & GROWTH DRIVERS

Long-Haul Fiber Optic Communication Networks Extend Huge Opportunities for WDM Equipment
DWDM Emerges as a Key Element in Long-Haul Networks
Deployment of WDM Equipment in Metropolitan Area Networks (MANs) Continues to Soar
Compact & Integrated Metro WDM Equipment Gain Traction in MANs
MANs Rely on L2 Switching in WDM for All IP Operations
Robust Demand for WDM Equipment from Metro Edge Vertical
Access Networks: A High-Growth End-Use Segment for WDM Equipment
High Tide in WDM-PON-based NGA Networks Drives Uptake of WDM in Access Networks
Growing IP Traffic Volumes & Subsequently Rising Bandwidth Needs Fuel Adoption of WDM Equipment in IP Backbone Networks

Table 1. Global IP Traffic Scenario (2014 & 2018): IP Traffic Volume in Exabytes

(includes corresponding Graph/Chart)

Table 2. Global IP Traffic Scenario (2014): Percentage Share Breakdown of Internet Consumption by Region/Country (includes corresponding Graph/Chart)

Table 3. Global IP Traffic Scenario (2014): Percentage Share Breakdown of Internet Consumption by Consumer Segment (includes corresponding Graph/Chart)

Table 4. Global IP Traffic Scenario (2014 & 2018): Percentage Share Breakdown of Traffic Volume by Connection Type (includes corresponding Graph/Chart)

Key Factors Influencing IP Traffic Growth: A Review
Sharp Increase in Number of Internet Subscribers

Table 5. Global Internet Service Market (2014): Breakdown of Number of Subscribers in Million by Region (includes corresponding Graph/Chart)

Table 6. Global Internet Service Market (2014): Penetration Rate of Internet Subscriptions as Proportion of Population by Region (includes corresponding Graph/Chart)

Growing Penetration of Smartphones and Tablets

Table 7. Global Smartphone Market (2014): Penetration Rate (In %) for Select Countries (includes corresponding Graph/Chart)

Table 8. Global Portable Devices Market (2014 & 2018): Percentage Share Breakdown of Unit Sales by Device Type (includes corresponding Graph/Chart)

Table 9. Global Wireless Communication Market (2014 & 2018): Percentage Share Breakdown of Traffic Volume by Device Type (includes corresponding Graph/Chart)

Faster Broadband Speeds
Proliferation of Bandwidth-Intensive Applications
IP Video: The Widely Used High-Bandwidth Application

Table 10. Global Internet Service Market (2014 & 2018): Percentage Share Breakdown of IP Traffic by Application Type (includes corresponding Graph/Chart)

Table 11. Size of 5MB Audio Track Viewed in Video Mode by Resolution (includes corresponding Graph/Chart)

Surging Investments by Telecom Companies on Advanced Networking Infrastructure Fuels Market Growth

WDM Gaining Traction in Mobile Backhaul Operations

Enterprises Prioritize WDM amid Growing Bandwidth Needs

Managed Wavelength Services Gaining Traction in Enterprise WDM Market

Expanding Role of DCI in Corporate Data Centers Builds Huge Momentum for WDM Equipment

Data Center Interconnect (DCI) Related Needs of Enterprises by Sector: A Snapshot
Noteworthy Data Center Trends Influencing DCI Implementations

Rapid Growth in Data Center Traffic

Table 12. Global Data Center Traffic Scenario (2014 & 2018): Data Center Traffic in Exabytes (includes corresponding Graph/Chart)

Sharp Increase in Cloud Data Center Traffic

Table 13. Global Data Center Traffic Scenario (2014 & 2018): Percentage Breakdown of Data Center Traffic by Equipment Type (includes corresponding Graph/Chart)

Table 14. Global Cloud Data Center Market (2014 & 2018): Percentage Breakdown of Data Center Traffic by Type of Cloud (includes corresponding Graph/Chart)

Transition towards Data Center Consolidation

Growing Role of Virtualization

WDM Making Rapid Progress in Synchronous DCI

WDM Gaining Traction in Asynchronous DCI

ISPs Put Focus on WDM amid Soaring Demand for Gigabit Ultra-Broadband Access Services

Growing Proliferation of Cloud Model Contributes to Market Growth

Rising Demand for ROADM-based WDM

3. PRODUCT/TECHNOLOGY OVERVIEW

Introduction

Key Benefits of WDM Technology

Enhanced Network Capacity

Cost Benefits

Scalability

Upgradeability

Transparent Operations

Types of WDM

Dense Wave Division Multiplexing (DWDM)

Components in DWDM System

Terminal Multiplexer

Intermediate Line Repeater

Optical Add-Drop Multiplexer (OADM)

Terminal Demultiplexer

Optical Supervisory Channel (OSC)

Coarse Wave Division Multiplexing (CWDM)

Dense Wave Division Multiplexing (DWDM) Vs. Coarse Wave Division Multiplexing (CWDM)

Bidirectional Wave Division Multiplexing (BWDM)

Implementation of WDM by Network Type

Long-Haul Networks

Metropolitan Area Networks (MANs)

Access Networks

4. PRODUCT INTRODUCTIONS/LAUNCHES

XKL Rolls Out DarkStar DWDM

Alcatel-Lucent Unveils Universal TWDM

Huawei Introduces Fully Outdoor WDM System for Fronthaul Fiber Connectivity

Huawei Launches PtP WDM PON

EXFO Enhances Pol-Mux OSAs with WDM-Aware Pol-Mux Coherent Pol-Mux

40G/100G OSNR Testing Capabilities

Alcatel-Lucent Unveils Single-Carrier 100 Gbps (100G)/200G DWDM Optical Line Card

Huawei Develops New 400G WDM Prototype for Ultra-Long-Haul Optical Transmission

ZTE Achieves Single Carrier 400G WDM Ultra-Long Signal Transmission

Huawei Launches 200G PID for Metro WDM

PacketLight Integrates Cryptographic Capability into PL-1000TE DWDM Transponder

PacketLight Launches PL-1000T 100G Service Demarcation Unit

5. RECENT INDUSTRY ACTIVITY

Ciena Takes Over Cyan

JDSU to Establish Lumentum and Viavi Solutions

MRV Communications to Supply LambdaDriver WDM System to Atlantech Online

UFINET Upgrades Fiber-Optic Network with New DWDM Platforms

Infinera to Provide WDM DTN Platform to Service Electric Cable

Marlin Equity Partners to Merge Tellabs with Coriant

Comtek Takes Over IP of Sorrento Networks

ADVA Optical Networking Launches WDM-PON Trial in Austria

Alcatel-Lucent Partners with Ucom

Ericsson Signs Global Strategic Agreement with Ciena

ECI Telecom Deploys 100 Gbps Optical Network for Bezeq International

Huawei implements Live Trial of Transport SDN & WDM System for MTN in Africa

Marlin Equity Partners to Integrate Sycamore with Coriant

Marlin Equity Partners Establishes Coriant

Motorola Mobility and Fujitsu Test Interoperable GPON-WDM Solution for USDoD

Coriant Tests DWDM System for Netia

Huawei Implements Testing of 400G WDM System for EXATEL

KPN International Launches Second Generation SD FEC Technology on its 100G WDM Backbone

BTI Systems Implements Intelligent DCI Networking Services to Equinix

Huawei Test 2 Tbit/s Optical Fiber Transmission Technologies for Vodafone

China Unicom Selects Fiberhome Telecommunication to Build a 40G WDM System

Huawei Teams Up with Telefonica Chile to Implement OTN-based 400G WDM Network

Huawei Deploys 100G DWDM System for Idea Cellular

6. FOCUS ON SELECT GLOBAL PLAYERS

ADTRAN Inc. (US)

ADVA Optical Networking SE (Germany)

Alcatel-Lucent (France)

Aliathon Technology Ltd. (UK)

Ciena Corporation (US)

Cisco Systems, Inc. (US)

Coriant (US)

ECI Telecom Ltd. (Israel)

Ericsson (Sweden)
eWAVE Networks Ltd. (China)
Finisar Corporation (US)
Fujitsu Limited (Japan)
Huawei Technologies Co., Ltd. (China)
Infinera Corporation (US)
Lumentum Holdings Inc. (US)
MRV Communications, Inc. (US)
NEC Corporation (Japan)
NTT Electronics Corporation (Japan)
Oclaro, Inc. (US)
PacketLight Networks Ltd. (Israel)
United Telecoms India Pvt. Ltd. (India)
ZTE Corporation (China)

7. GLOBAL MARKET PERSPECTIVE

Table 15. World Recent Past, Current and Future Analysis for Wavelength Division Multiplexing (WDM) Equipment by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin American Markets Independently Analyzed with Annual Revenues in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 16. World Historic Review for Wavelength Division Multiplexing (WDM) Equipment by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin American Markets Independently Analyzed with Annual Revenues in US\$ Million for Years 2010 through 2013 (includes corresponding Graph/Chart)

Table 17. World 11-Year Perspective for Wavelength Division Multiplexing (WDM) Equipment by Geographic Region - Percentage Breakdown of Revenues for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin American Markets for Years 2010, 2015, and 2020 (includes corresponding Graph/Chart)

III. MARKET

1. THE UNITED STATES

A. Market Analysis

Outlook

WDM Equipment Market Sees Growing Opportunities in the US Metro Networks Vertical

Long-Haul Networks Extend Huge Opportunities for WDM Equipment

Network Operators in the US Prioritize WDM Equipment in Access Networks

Growing Uptake of 100G & Ultra-100G WDM OTNs to Fuel Revenue Growth

Product Launch

Strategic Corporate Developments

Key Players

B. Market Analytics

Table 18. US Recent Past, Current and Future Analysis for Wavelength Division Multiplexing (WDM) Equipment Market with Annual Revenues in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 19. US Historic Review for Wavelength Division Multiplexing (WDM) Equipment Market with Annual Revenues in US\$ Million for Years 2010 through 2013 (includes corresponding Graph/Chart)

2. CANADA

A. Market Analysis

FTTx Network Deployment Fuels Market Growth

Product Launch

B. Market Analytics

Table 20. Canadian Recent Past, Current and Future Analysis for Wavelength Division Multiplexing (WDM) Equipment Market with Annual Revenues in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 21. Canadian Historic Review for Wavelength Division Multiplexing (WDM) Equipment Market with Annual Revenues in US\$ Million for Years 2010 through 2013 (includes corresponding Graph/Chart)

3. JAPAN

- A. Market Analysis
 - An Overview
 - Select Players
- B. Market Analytics

Table 22. Japanese Recent Past, Current and Future Analysis for Wavelength Division Multiplexing (WDM) Equipment Market with Annual Revenues in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 23. Japanese Historic Review for Wavelength Division Multiplexing (WDM) Equipment Market with Annual Revenues in US\$ Million for Years 2010 through 2013 (includes corresponding Graph/Chart)

4. EUROPE

- A. Market Analysis
 - Current & Future Analysis
 - Expanding Role of DCI in European Data Center Market Extends Opportunities for WDM Equipment
 - Growing Proliferation of Cloud Model Contributes to Market Growth
 - Key Regional Markets
 - Germany: The Largest European Market for WDM Equipment
 - The United Kingdom: A Major Market
 - Product Launches
 - Strategic Corporate Developments
 - Select Key Players
- B. Market Analytics

Table 24. European Recent Past, Current and Future Analysis for Wavelength Division Multiplexing (WDM) Equipment by Region/ Country - France, Germany, Italy, UK, Spain, Russia, and Rest of Europe Markets Independently Analyzed with Annual Revenues in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 25. European Historic Review for Wavelength Division Multiplexing (WDM) Equipment by Region/Country - France, Germany, Italy, UK, Spain, Russia, and Rest of Europe Markets Independently Analyzed with Annual Revenues in US\$ Million for Years

2010 through 2013 (includes corresponding Graph/Chart)

Table 26. European 11-Year Perspective for Wavelength Division Multiplexing (WDM) Equipment by Region/Country - Percentage Breakdown of Revenues for France, Germany, Italy, UK, Spain, Russia, and Rest of Europe Markets for Years 2010, 2015, and 2020 (includes corresponding Graph/Chart)

5. ASIA-PACIFIC

A. Market Analysis

An Overview

Telecom Companies Drive Demand for WDM Equipment in China

Product Launches

Strategic Corporate Developments

Select Key Players

B. Market Analytics

Table 27. Asia-Pacific Recent Past, Current and Future Analysis for Wavelength Division Multiplexing (WDM) Equipment by Region/Country - China, India, and Rest of Asia-Pacific Markets Independently Analyzed with Annual Revenues in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 28. Asia-Pacific Historic Review for Wavelength Division Multiplexing (WDM) Equipment by Region/Country - China, India, and Rest of Asia-Pacific Markets Independently Analyzed with Annual Revenues in US\$ Million for Years 2010 through 2013 (includes corresponding Graph/Chart)

Table 29. Asia-Pacific 11-Year Perspective for Wavelength Division Multiplexing (WDM) Equipment by Region/Country - Percentage Breakdown of Revenues for China, India, and Rest of Asia-Pacific Markets for Years 2010, 2015, and 2020 (includes corresponding Graph/Chart)

6. MIDDLE EAST & AFRICA

A. Market Analysis

Outlook

Product Launches

Strategic Corporate Developments

Select Players

B. Market Analytics

Table 30. Middle East & Africa Recent Past, Current and Future Analysis for Wavelength Division Multiplexing (WDM) Equipment Market with Annual Revenues in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 31. Middle East & Africa Historic Review for Wavelength Division Multiplexing (WDM) Equipment Market with Annual Revenues in US\$ Million for Years 2010 through 2013 (includes corresponding Graph/Chart)

7. LATIN AMERICA

A. Market Analysis

Outlook

Corporate Development

B. Market Analytics

Table 32. Latin American Recent Past, Current and Future Analysis for Wavelength Division Multiplexing (WDM) Equipment by Region/ Country - Brazil, and Rest of Latin America Markets Independently Analyzed with Annual Revenues in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 33. Latin American Historic Review for Wavelength Division Multiplexing (WDM) Equipment by Region/Country - Brazil, and Rest of Latin America Markets Independently Analyzed with Annual Revenues in US\$ Million for Years 2010 through 2013 (includes corresponding Graph/Chart)

Table 34. Latin American 11-Year Perspective for Wavelength Division Multiplexing (WDM) Equipment by Region/Country - Percentage Breakdown of Revenues for Brazil, and Rest of Latin America Markets for Years 2010, 2015, and 2020 (includes corresponding Graph/Chart)

IV. COMPETITIVE LANDSCAPE

Total Companies Profiled: 107 (including Divisions/Subsidiaries - 109)

The United States (46)

Canada (4)
Japan (5)
Europe (21)
 France (1)
 Germany (6)
 The United Kingdom (5)
 Italy (1)
 Rest of Europe (8)
Asia-Pacific (Excluding Japan) (28)
Latin America (1)
Middle East (4)

I would like to order

Product name: Wavelength Division Multiplexing (WDM) Equipment: Market Research Report

Product link: <https://marketpublishers.com/r/W7C83635958EN.html>

Price: US\$ 4,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/W7C83635958EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970