

Wavelength Division Multiplexer (WDM) Market by Type (CWDM and DWDM) and Industry Vertical (IT & Telecommunication, Military & Defense, Oil & Gas, and Medical & Healthcare): Global Opportunity Analysis and Industry Forecast, 2020–2027

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Abstracts

The global wavelength division multiplexer market was valued at \$3.65 billion in 2019, and is projected to reach \$5.61 billion by 2027, registering a CAGR of 6.4% from 2020 to 2027. The fiber optics communications technology, which multiplexes multiple optical carrier signals onto a single optical fiber by using different colors or wavelengths of lights is known as wireless division multiplexer (WDM). Two-way communication over single optical fiber is possible by using this technology. Several signals from different optical fibers are converted into single optical fiber by using multiplexer, which is kept at the transmitting end. The operators these days have to meet the rise in requirements of bandwidth as there is tremendous rise in internet usage by all sectors. Therefore, WDM being the fundamental block for high capacity optical communications network is used by network providers to meet the increase in demand and yield maximum capacity.

The global wavelength division multiplexer market is anticipated to witness significant growth over the forecast period. Factors, such as a demand for high capacity network and effective communication; rapid growth in number of internet users as well as network traffic around the globe; and surge in telecommunication applications, drive the growth of the market. In addition, new product launches are projected to flourish the WDM market. However, the cost associated with dark fiber network may hamper growth of the market. On the contrary, rise in advanced network infrastructure and increase in cloud and IP traffic are anticipated to create lucrative opportunities for the market growth.

The global wavelength division multiplexer market is segmented into type, industry vertical, and region. By type, the market is bifurcated into CWDM and DWDM. The industry vertical segment is divided into IT & telecommunication, military & defense, oil & gas, and medical & healthcare. Region-wise, the wavelength division multiplexer market trends are analyzed across North America (the U.S., Canada, and Mexico), Europe (Sweden, France, Germany, Russia, and Rest of Europe), Asia-Pacific (China, Japan, India, and Rest of Asia-Pacific), and LAMEA (Latin America, the Middle East, and Africa).

The key players operating in the market are Alcatel-Lucent, Ciena Corporation, Fujitsu Ltd., Huawei Technologies, ZTE, Cisco Systems, Inc., Infinera Corporation, ADVA Optical Networking SE, Aliathon Technology Ltd., and ADTRAN Inc.

KEY MARKET SEGMENTS

BY TYPE

CWDM

DWDM

BY INDUSTRY VERTICAL

IT & Telecommunication

Military & Defense

Oil & Gas

Medical & Healthcare

BY REGION

North America

U.S.

Canada

Mexico

Europe

Sweden

France

Germany

Russia

Rest of Europe

Asia-Pacific

China

Japan

India

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

KEY PLAYERS

Ciena Corporation

Fujitsu Ltd.

Huawei Technologies

ZTE

Cisco Systems, Inc.

Infinera Corporation

ADVA Optical Networking SE

Aliathon Technology Ltd.

ADTRAN Inc.

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