



Optical Communication Market forecast – OCTOBER 2020

Looking beyond the IMPACT of COVID-19

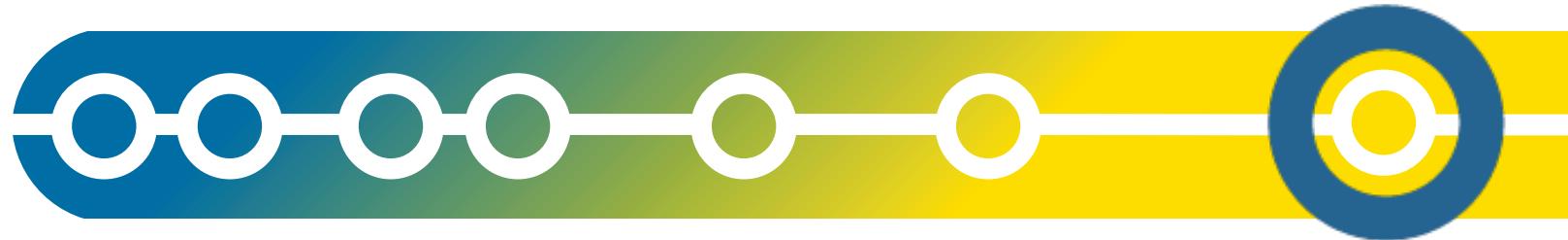
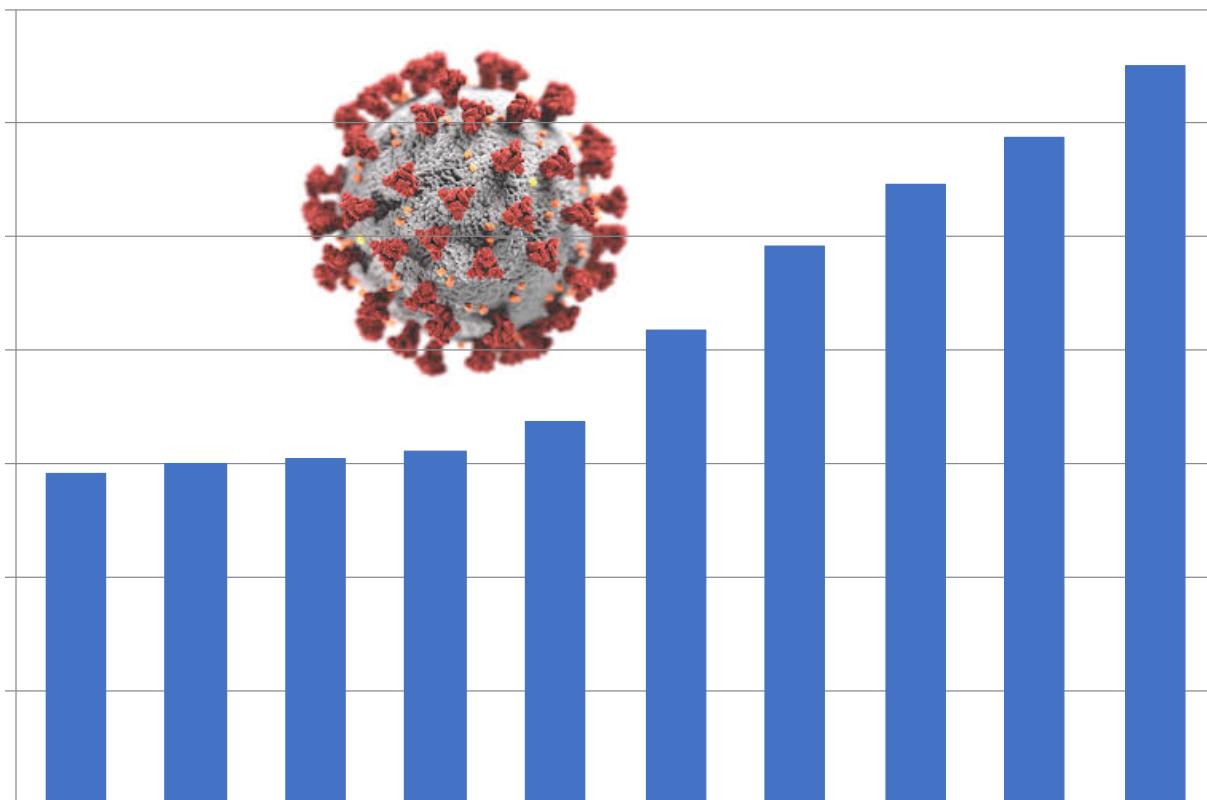


Table of Contents

TABLE OF CONTENTS.....	2
ABSTRACT	4
EXECUTIVE SUMMARY.....	5
THE OPTICAL COMMUNICATIONS INDUSTRY WILL BE AMONG THE FIRST TO EMERGE FROM COVID-19 DISRUPTIONS	5
IMPACT OF COVID-19	ERROR! BOOKMARK NOT DEFINED.
Q1 RESULTS AND Q2 GUIDANCE FROM SUPPLIERS	ERROR! BOOKMARK NOT DEFINED.
CHANGES TO THE LONG-TERM FORECAST.....	ERROR! BOOKMARK NOT DEFINED.
CHAPTER 1: CARRIER REVENUE, CAPEX OVERVIEW	10
IMPACT OF COVID-19 ON SERVICE PROVIDERS	ERROR! BOOKMARK NOT DEFINED.
COMPANY SPECIFIC HIGHLIGHTS.....	ERROR! BOOKMARK NOT DEFINED.
CHAPTER 2: INTERNET INFRASTRUCTURE DRIVERS	10
INTERNET INFRASTRUCTURE SPENDING	21
QUARTERLY SPENDING PATTERN SHOWS CAPEX GROWTH LAGGING.....	ERROR! BOOKMARK NOT DEFINED.
COVID-19 PANDEMIC AND ICP SPENDING	22
SPENDING REMAINS CONCENTRATED IN THE TOP FIVE ICPs (87% OF TOTAL SPENDING IN 2019).....	23
CLOUD SERVICES REVENUE INCREASING AS SHARE OF TOTAL	24
INTERNET COMPANIES HAD \$627 BILLION IN READY CASH BY THE END OF 2019	25
WILL GOVERNMENTS SLOW THE MARCH OF THE TOP CLOUD COMPANIES?	25
EUROPE IS LEADING THE PUSH FOR GREATER REGULATION	25
REGULATORY ACTION AGAINST 'BIG TECH' IS RAMPING UP IN THE UNITED STATES	27
REGULATORY IMPACT ON DATACENTER OPTICS DEMAND.....	28
CHAPTER 3: FORECAST FOR OPTICAL COMPONENTS AND MODULES USED IN TELECOM APPLICATIONS	30
SUMMARY.....	30
CWDM AND DWDM TRANSCEIVERS AND TOTAL DWDM PORTS	35
TUNABLE LASERS, MODULATORS AND RECEIVERS FOR DWDM APPLICATIONS	40
WAVELENGTH SELECTIVE SWITCH (WSS) MODULES.....	42
FTTx OPTICAL COMPONENTS.....	45
OPTICAL TRANSCEIVERS FOR WIRELESS FRONTHAUL AND BACKHAUL	49
BACKHAUL SHOWS SLOWER BUT STEADIER GROWTH.....	54
CHAPTER 4: FORECAST FOR OPTICAL TRANSCEIVERS AND INTERCONNECTS USED IN DATACOM APPLICATIONS	58
SUMMARY.....	58
ETHERNET TRANSCEIVERS	59
FIBRE CHANNEL TRANSCEIVERS.....	60
OPTICAL INTERCONNECTS	61

CHAPTER 5: FORECAST METHODOLOGY **63**

INTERNET AND DATACENTER TRAFFIC GROWTH..... 63

FORECAST METHODOLOGY 66

Abstract

This report provides a detailed market demand forecast through 2025 for optical components and modules used in Ethernet, Fibre Channel, CWDM/DWDM, wireless infrastructure, FTTx, and high-performance computing (HPC) applications.

Key inputs include an analysis of the business and infrastructure spending of the top 15 service providers and of the leading Internet companies, and sales data from 2016 through H1, 2020 for more than 30 transceiver vendors, including more than 20 vendors that shared their confidential sales information with LightCounting. The forecast is based on LightCounting's proprietary forecast model, which correlates transceiver sales with network traffic growth and the projected deployments of 5G and FTTx systems for broadband access.

LightCounting is also grateful to many industry experts for their critical review of the forecast projections.