

ETHERNET, INFINIBAND AND OPTICAL SWITCHES FOR CLOUD DATACENTERS

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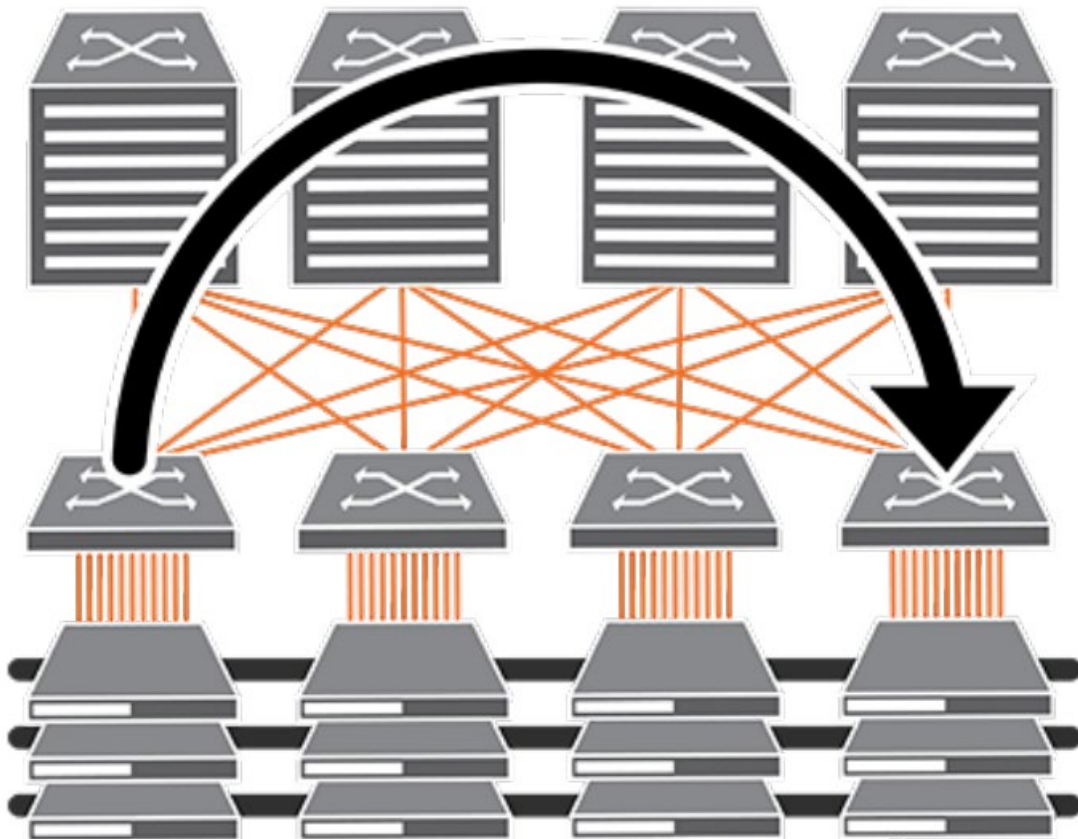


Table of Contents

Abstract.....	4
Executive Summary	5
Adoption of co-packaged optics	8
Chapter 1: Applications and Technologies	11
How it all started.....	12
Where we are now	14
Improving power and cost efficiency	16
Keeping up with the servers	17
Scaling AI clusters using InfiniBand	20
Optical switches in AI clusters.....	22
Chapter 2: Switching ASIC Supply Chain, Catching up with Broadcom	27
Broadcom	27
Cisco	31
Marvell (Innovium).....	33
Nvidia (Mellanox).....	35
Other vendors.....	37
Chapter 3: Ethernet Switch Equipment Manufacturers in Pursuit of Cloud Customers	40
Arista	40
Cisco	43
Edgecore Networks	45
H3C	46
Huawei	47
Juniper.....	50
ZTE.....	52
Chapter 4: Forecast Models and Assumptions	53
Data traffic growth in mega-datacenters	53
Optical transceiver forecast assumptions.....	54
From optical transceivers to ethernet switches	55
Forecast model for Meta	56

Forecast model for Google	62
Forecast model for Amazon	67
Alibaba and Microsoft	70
Chapter 5: Optics Co-Packaged with Switching ASICs	71
CPO demos at OFC	72
Linear drive pluggable transceivers (LPO)	74
It is all about power consumption	76
Market adoption	77
Forecast for CPO	78

Abstract

This report offers analysis and a forecast for the most interesting segment of the switching ASIC market – high bandwidth (3.2T and above), low latency chips deployed in Cloud datacenters. In addition to Ethernet switches, the report now includes InfiniBand and Optical Circuit Switch markets. It excludes products developed for enterprise and telecom networks as well as switch ASICs developed for routers.

Demand for Ethernet switches from Cloud companies created a new market segment for very high bandwidth switches and switch ASICs. It also transformed the industry supply chain as Cloud companies started using internally designed Ethernet switches and opening these “white box” designs to a broader community.

Increasing focus on AI applications, boosted demand for low latency InfiniBand switches. Google also disclosed their work on using optical circuit switches to improve performance, while reducing cost and power consumption of AI Clusters. We expect both solutions to be widely adopted by the industry.

The report offers brief profiles of the leading suppliers of merchant switch ASIC and system integrators, offering products to Cloud companies, and includes a forecast for sales of 25.6T-and-above switch ASICs with co-packaged optics (CPO).

LightCounting is a market research company focused on the in-depth study of high-speed interconnects for the datacom, telecom, and consumer communications markets. Our research covers the whole supply chain from wireless to optical and semiconductor components, to modules, sub-systems, and their applications in telecom, datacom and AI clusters.

Our industry reputation was built by providing solid market data and objective analysis to help industry executives in making tactical and strategic business decisions and to see past all the market hype, rumors, press reports, blogs and other distortions that so often complicate and confuse many decision-making processes.

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