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MARKETS FOR PAM4 AND COHERENT DSPs

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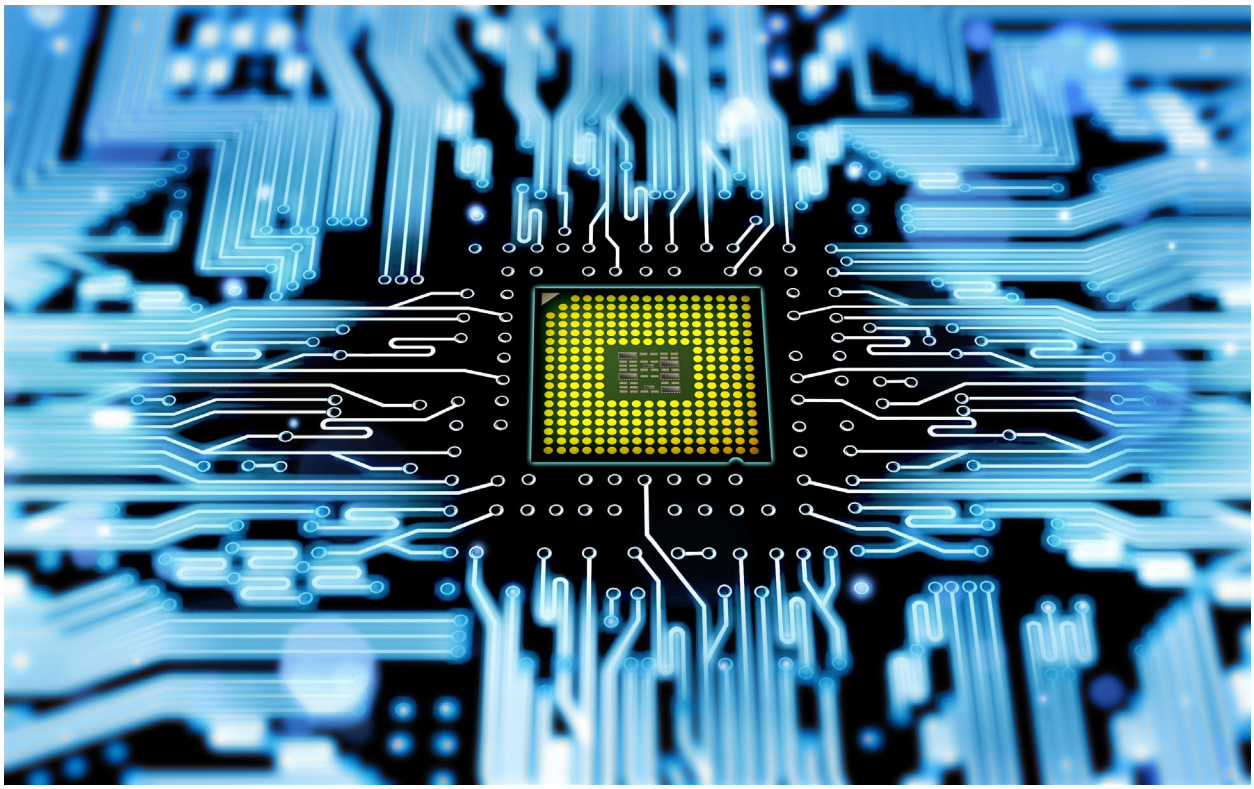

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Table of Contents

Abstract 1
Executive Summary 2
IC chipset sales will Triple by 2029 2
The battle between PAM4 and Coherent DSP Chipsets 6
Chapter 1: The Communications IC Market 8
Communication IC Technologies 8
Profiles of Leading Communication IC Vendors 9
Analog Devices (Maxim Integrated) 9
Broadcom 9
Credo Semiconductor 11
MACOM 13
Marvell (Inphi) 15
Maxlinear 19
Semtech 21
Coherent DSP chips developed by equipment and module vendors 22
Acacia (now part of Cisco) 22
Ciena 24
Huawei 25
Nokia 26
ZTE 27
Other Vendors 28
Coherent (formerly II-VI) 28
Effect Photonics 28
Infinera 29
NTT Electronics (NEL) 29
TeraSignal 29

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Chapter 2: PAM4 DSP and the market for ICs used in Ethernet optical transceivers ... 30
Evolution of 10GbE modules ... 31
40G and 100G Ethernet transceivers and IC chipsets ... 34
Tracking sales of 200G and 400G PAM4 DSPs ... 37
Emerging market for 800G and 1.6T products ... 39
Retimers and Line-Card PHY Chips ... 41
Chapter 3: Coherent DSP and the market for ICs used in DWDM optical interfaces. ... 43
Evolution of 10G DWDM ... 44
100G, 200G and 400G DWDM optics and IC Chipsets ... 45
To 800G DWDM and beyond ... 48
Coherent devices in edge and access networks ... 51
Coherent devices inside Datacenters? ... 53
APPENDIX: Chinese Semiconductor Vendor Profiles ... 55
AmpliPHY ... 55
Aluksen ... 55
Aroptics Tech ... 56
Elite Optotronics ... 57
EOChip ... 57
Fujian Z.K Litecore ... 57
Guangte Technology ... 58
Hengxin Semitech ... 59
InSiGa ... 59
Leaptek Photonics, Inc. ... 60
Lightip Technology ... 60

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Mindsemi 60
MiniSilicon 61
Photonic Tech 61
Shijia Photonics 62
UXFastic 62
Wingcomm 63
YouOpto Technology 64
Yuanjie Semiconductor 65
Zetta Semiconductor 65

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Abstract

This report analyses the market for semiconductor IC chipsets used in optical transceivers and related products. The chipsets include laser drivers, CDRs, TIAs and in some cases FEC, PAM4 and coherent DSP ICs. Demand for 400/800GbE connectivity inside mega datacenters and 400/800G DWDM optics on the outside boosted sales of PAM4 and coherent DSP chips in 2019-2023 and this market segment will continue to grow.

The report analyses the global market for IC chipsets by application, breaking the market down into CWDM/DWDM, Ethernet, Fibre Channel, FTTx, Wireless Fronthaul, AOC, AEC and EOM segments. PAM4 chips used as on-board re-timers are included in the Ethernet category. It also includes a database with historical data for 2021-2023 and a 2024-2029 forecast for shipments, average selling prices and sales revenue from IC chip sets sorted by type of transceivers or other modules where these are used. It also includes profiles of the leading suppliers of high-speed optical interface ICs and numerous Chinese IC companies, targeting this market.

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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 optical and semiconductor components, to modules, sub-systems and their applications in telecom and datacom systems. We recently added coverage of the global wireless infrastructure to our research.

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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