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Global 312.5 MHz High-End Differential Crystal Oscillators Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global 312.5 MHz High-End Differential Crystal Oscillators market size was valued at US$ 88.61 million in 2025 and is forecast to a readjusted size of US$ 1323 million by 2032 with a CAGR of 44.6% during review period.

A 312.5 MHz high-end differential crystal oscillator refers to a high-performance active oscillator with an output frequency of 312.5 MHz and differential logic outputs such as LVDS, LVPECL, HCSL, and HS-LVDS. Its key specifications include low RMS phase jitter, low phase noise, wide-temperature stability, a compact package, and low power consumption. Typical applications include providing reference clocks for high-speed SerDes, PAM4 DSPs, optical module CDRs, switch chips, DPUs/NICs, and FPGAs/ASICs.

Development Trends

The trend toward higher speeds in optical modules is driving demand. 312.5 MHz has become a critical frequency for reference clocks in 800G and 1.6T optical module DSPs, SerDes, and CDRs. Cignal AI reports that shipments of high-speed modules will exceed 40 million units in 2025, and LightCounting has also revised upward its forecasts for 800G, 1.6T, and 3.2T Ethernet transceivers, predicting that the high-speed Ethernet optical module market will continue to experience strong growth in 2025.

Jitter specifications are evolving from the ps range to the tens of fs range. During the 100G/400G era,

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Contents

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3 COMPETITIVE ENVIRONMENT: 312.5 MHZ HIGH-END DIFFERENTIAL CRYSTAL OSCILLATORS BY MANUFACTURER

4 CONSUMPTION ANALYSIS BY REGION

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List Of Tables

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List Of Figures

LIST OF FIGURES

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