

Global 312.5 MHz High-End Differential Crystal Oscillators Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 312.5 MHz High-End Differential Crystal Oscillators market size is expected to reach \$ 1323 million by 2032, rising at a market growth of 44.6% CAGR during the forecast period (2026-2032).

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. Signal 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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