



PRESS RELEASE

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Glass Core Substrates: What Will it Take to Get Us There?

TechSearch International's latest Advanced Packaging Update report provides a deep analysis of the research on glass core substrates with an update on progress and remaining challenges. The report describes the potential advantages of glass core substrates but addresses the trade-offs required to commercialize the technology. The problem with micro cracks is discussed, with causes and preventive measures described. New methods for fabrication and singulation of substrates are presented. Alternatives to glass core are investigated.

Developments in hybrid bonding are highlighted, with a timeline for adoption for new applications. Drivers for the use of hybrid bonding in high-bandwidth memory are presented, as well as challenges and alternatives. New solutions such as polymer coating are discussed.

The report tracks energy and water use challenges of data centers and explores options for orbital data centers. Shortages caused by data center hardware demand, including substrates and materials shortages such as glass fiber for substrate cores, will ease next year but could be a problem again in the future due larger body sizes and more glass layers.

TechSearch International's analysis of OSAT financials is included, with revenue projections. Substrate trends are discussed and a section is dedicated to substrate design rules from each supplier. The Update is a 122-page report with full references and a set of more than 100 PowerPoint slides.

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