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Connector Types and Technologies Poised for Growth

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Abstracts

Bishop & Associates has just released a new market research report that identifies 18 specific connector types that are expected to grow at a significantly faster rate than the general market over the next five years. This 24-chapter, 185-page report defines the key characteristics of each of the connectors, as well as provides typical applications, major manufacturers along with projected market values and five year CAGR to 2016. This report also reviews emerging trends and technologies that are likely to have major impact on connector design and applications over this same period.

Each connector type is defined with a product description including key mechanical and electrical performance characteristics, as well as the rational for its selection. Typical applications are also identified. A global market value and forecast to 2016 documents our growth expectations for each connector type.

Many of the selected interfaces have existed in the market for several years, but emerging applications will propel their growth well beyond that of the general connector market. Some legacy connector types, for instance, are being adapted to high-speed differential signaling, which will allow implementation in next-generation equipment. In other cases, entirely new interfaces will show logarithmic percentage growth from near zero as they are implemented in new high-volume applications.

Issues explored in this report include:

Which existing connector types are poised for exceptional sales growth?

What new electronic products and technologies are driving this connector growth?

Which industry segments will utilize these connectors? Will certain segments

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require the development of entirely new interfaces to address specific applications?

Who are the leading manufacturers of these connectors?

How are power connectors being adapted to provide greater power and signal density while supporting system thermal management strategies?

Which connectors defined by an updated industry standard or specification show exceptional growth potential?

What is the forecasted global market value of these growth connectors over the 2011 through 2016 period?

How much of this growth will be influenced by formal, defacto or special interest group generated standards?

How are existing connectors defined by an industry standard continuing to evolve in terms of bandwidth and signal density?

Will new system packaging techniques such as orthogonal midplane architecture become more widely adopted over the next 3-5 years?

Will new material technology change the way connectors are designed, fabricated and utilized?

How will system designer demand for higher speed and density interfaces translate into development of next generation connector technology?

Are one -piece high performance edge connectors experiencing resurgence? Why?

Has the performance / cost curve of fiber optic connectors finally tipped the advantage to fiber over copper in I/O applications? Will 25 Gb/s channels be the tipping point?

How will global environmental mandates influence the design of future interconnects?

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What new I/O connectors are leading the charge to 10+ Gb/s performance?

How is the convergence of computing, communications, and consumer entertainment influencing the design of interconnects?

What new classes of products such as wireless video, solid state lighting and alternative energy generation will require the development of new interconnect systems?

What technology gaps exist which must be addressed in order to satisfy next generation equipment interconnect requirements?

What effect will the adoption of wireless devices have on copper cabling and connectors?

Will connectors that incorporate passive or active components become more common?

How are high-speed backplane and I/O connectors evolving to address the issues of 40-100+ Gb/s bandwidth?

How are connector manufacturers balancing potentially conflicting requirements for identical second sources and protection of intellectual property?

What changes in every portion of the channel will be required to support 25+ Gb/s signals?

What new interfaces will dominate emerging automotive applications including infotainment, networking, power management, and battery charging?

Are commercially priced PCB laminates capable of supporting 1meter channels operating at 25+ Gb/s? Are there ways to avoid the use of high-performance / cost laminates?

What potentially disruptive technologies may impact connector design and utilization over the next 5 years?

All of these topics and others are discussed in this new report on Connector Types and

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Technologies Poised for Growth.

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