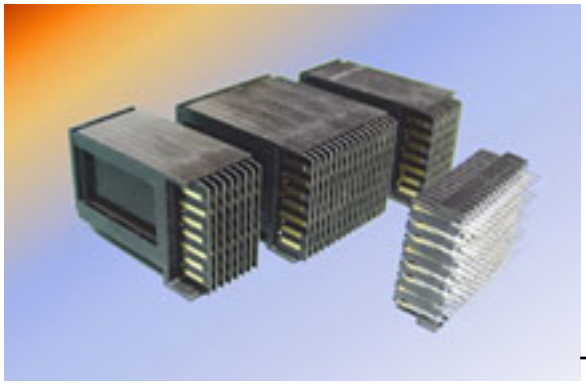
MultiGig RT Connector Family



Tyco Electronics, a unit of Tyco International Ltd, has developed a new high-speed board-to-board connector for the computer, telecommunication, and networking markets. The MultiGig RT connector family provides design flexibility, mechanical robustness, and performance scalability to 10 Gigabits/second and beyond.

Designed to meet the stringent connector performance requirements of Bellcore/Telcordia specifications, the MutliGig RT connector offers design flexibility in both signal contact density and card slot pitch. Also notable is the connector's robust mechanical design that successfully addresses the problem of "bent pins" common to many 2-piece connector designs in use today. Conventional pins have been replaced with a miniature printed circuit board structure on the daughter card modules, and fully-enclosed dual-beam contacts on the back-plane connector. Both the daughter card and back-plane connectors use industry standard press-fit pin technology; Tyco Electronics has invented a unique press-fit pin for all high-speed signal contacts that increases the performance of the connector.

Performance scalability is achieved using a modular design which provides system engineers the ability to scale PCB interconnect data rate performance from less than 1.0 gigabit/second to beyond 10.0 gigabits/second. This scalability provides a system interconnect migration path for increased performance using a common design concept. The design of the MultiGig RT connector system minimizes electrical skew by controlling the length of each circuit through the connector.

MultiGig RT-1 connector modules are the first to be released and are available for both 0.8 inch (20.3mm) and 1.0 inch (25.4 mm) pitch card spacing. This series allows designers the freedom to match signal modules, power modules, and guide pin modules with ESD discharge options to meet the needs of the most unique and demanding applications, such as telecommunication central office switches and routers, as well as midrange and high-end computers and servers.

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