

# Press Release

For Release February 17, 2010

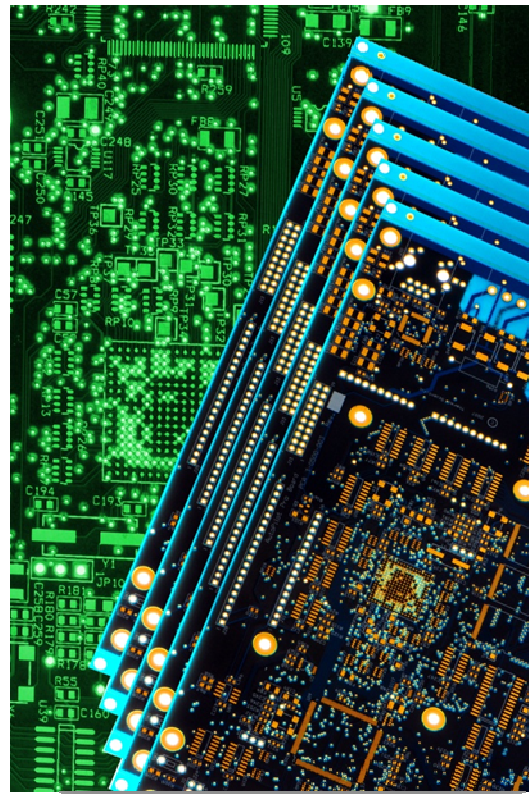
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## Electronic Interconnect (EI) Offers Medical Electronics PCBs, Design Engineering

Chicago, Illinois, USA – Electronic Interconnect (EI), a leading provider of printed circuit boards (PCBs) and [PCB engineering and design services](#), announces the availability of specialized PCBs for medical device electronic assemblies and engineering and design services to help customers plan and develop medical electronic [printed circuit assemblies](#). According to Pratisht Patel, President and CEO, “Medical electronic assemblies have unique requirements that set them apart from other types of electronic devices, such as consumer electronic products.”

“Often, thermal management issues must be anticipated in the [PCB design](#), and assemblers must conform to certain quality standards such as ISO 13485. Medical product manufacturers in many instances can benefit from the knowledge base and experience of PCB suppliers and industry players who have been through the many changes and advancements that the electronics manufacturing industry has been through in recent years.”

For example, Patel says that burn-in and rigorous vacuum chamber testing are vital for medical electronics and [pc board](#) products. Testing involves subjecting fully functional sub-system circuit boards to different temperature cycles to ensure a full simulation, as though the product were fully operational in a medical facility. Vacuum chamber testing puts the subsystem circuit board in a real environment, with temperature ranges from -40°C to +85°C for 24 to 48 hour test cycles, and it is put into non-stop operation for periods ranging from 24 to 72 hours. “Such



a circuit board could be in a remote location with temperatures over 100°F, with no air control rooms or, at the other extreme, with temperatures below room temperature or below freezing temperatures” Patel says. “Thus, such environmental cycling exposes the PCB to possible anticipated extreme conditions, ensuring 100% product reliability as well as exposing latent defects.”

“To achieve high reliability goals, a sound product testing strategy must be created at the prototype stage”, Patel adds. “That is when both OEM and EMS provider engineering staffs initially come together to discuss design and manufacturing objectives. In effect, the [circuit board prototype](#) serves as a product R&D tool, allowing the EMS provider to increase reliability by defining and building in Design for Manufacturability (DFM) and Design for Testability (DFT) procedures within the different stages of the product development.”

### **About Electronic Interconnect**

Electronic Interconnect (EI) is a professional [printed circuit board manufacturer](#) located in the Chicago area, and manufacturing printed circuit boards in the U.S. since 1985. EI serves design engineers and contract assemblers, providing all types of PCBs from single-sided to complex multilayer boards from prototype through production. EI is ITAR registered, is a member of the Chicago Minority Business Development Council ([cmbdc.org](http://cmbdc.org)), and is ISO and UL certified. For more information, visit [www.eiconnect.com](http://www.eiconnect.com), or contact the company at 2700 W. Touhy Avenue, Elk Grove Village, IL 60007, Tel. 800-364-4844.

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