

Healthcare Interconnect Solutions

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As the exorbitant cost of healthcare in United States continues to cartwheel out of control, the medical community is today demanding a much healthier ROI across the boards from the technology solutions that it deploys across multiple disciplines. The interconnect solutions arena is a case in point, as higher performance and greater dependability have indeed become the industry's watch words. In short, getting a lot more bang for the buck is the call of the day.



Image 1: Hypertronics medical connectors offer sealing, color-coding, can be keyed, and are available in a variety of standard and customized versions.

The medical design community continues hurtling down a path that sees it requiring medical devices that are more feature-rich, are available in a smaller format, that have the power to transmit increasing amounts of critical data, that carry a higher degree of protective shielding, and that are totally dependable and durable. These smaller and more powerful devices are playing a greater role in keeping people healthy while also making some modest progress in the effort to contain steadily rising costs across the industry.

The number of hospitals in the United States has been steadily decreasing for more than 20 years, and the shrinking availability of hospital beds has, over time, resulted in moving patients, in increasing numbers, from the hospital to their homes for treatment in the effort to free-up desperately needed hospital beds. This reality has been a prime catalyst in the development and deployment of smaller sophisticated medical device technology, for remote use, that takes medical care from the hospital into the home environment. Such technological innovation is now

making it possible for patients to take a far larger role in monitoring and managing their health from the comfort and security of their own homes.

While this increasing shift of venue from the hospital to the home has served to make life a great deal more convenient and less stressful for patients, it also levies new and greater demands on medical device technology. This is true across a broad sweep of the medical landscape, which includes ambulatory cardiac monitoring and pain-management. This shifting venue has changed the recipe in the technological mix and laid-down a daunting challenge to interconnect solutions providers to serve-up the customized connectors that are demanded. More than ever before, medical customers are seeking connectors that can operate flawlessly in challenging environments, and that also offer enhanced performance at a cost-effective price.

In real-world settings that feature people, outside of the hospital environment, taking-on a greater role in maintaining their health in areas such as patient monitoring, pain management, or diabetics who must constantly test their blood sugar levels, the trend is clearly one of miniaturization and enhanced device dependability.

A critical component in today's smaller and more sophisticated medical device technology is the interconnect solutions that device manufactures are employing. Medical device manufacturers are reaching out to connector companies across the industry to work in close-concert with them in designing interconnect solutions that can be relied upon to work each and every time, and that ensure high mating cycles, low contact resistance, signal integrity, protection for sensitive medical device circuitry from damaging EMI and RFI interference, and that can maintain the highest level of performance possible. A tall order to be sure, however, connector companies are rising to meet the challenge, and keeping pace with the new technological demands of the medical device industry.

Hypertronics Corp is one of those interconnect solutions providers that has consistently risen to meet the unique challenges associated with the industry. The company continues to keep pace with the host of new demands that are proliferating across the medical design community, leading the way in the medical device sector. This is done with a broad range of interconnect offerings that are innovative, tried and tested, and that embody designed-in features and functionality to ensure total dependability while delivering real value to medical professionals.

In today's world, patients are increasingly looking to the medical community for the best care possible, for peace of mind, and for a greater sense of independence through new home healthcare initiatives. Most importantly, people are looking for a better quality of life, and new technologies are playing a paramount role in improving the quality of healthcare. In the final analysis, connectors are small components that can and do make a very big difference where it matters most.

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