Increase Service Levels, Meet Expectations
A Unified Approach to Health Care Automation Processes

Hospitals, clinics, extended care facilities, and physician’s offices are facing increasing pressure to improve the quality of health care while decreasing costs. In response, health care providers are adopting greater use of electronic medical records and automated equipment. As a result, the number of users requiring network access through the use of portable and mobile devices such as handheld units and laptops to manage patient records, monitor clinical applications and reference workplace requirements is extending the need for network access facility wide.

Health care facilities are increasing the use of technology that automates business and clinical processes to bring change. Monitoring and management of medical devices and equipment (ECG, fusion pumps, remote sensing, imaging, etc.) through the network is being used to not only lower costs but to positively affect patient care. Real-time access to patient related data and systems through high performance networks helps reduce medical errors and improve patient experience. Ultimately organizations will be able to deliver better care and services by improving the agility, flexibility, and integration of clinical and business operations.

As new equipment and technologies are introduced, physical and logical security will be needed to improve patient care while also protecting medical records. New and improved methods for identity management and asset tracking (bar coding, RFID, etc.) are monitored and managed through the network to help deliver patient treatment and prevent security breaches.

With extensive knowledge of networking and electrical systems, an in-depth understanding of the demands of advanced medical systems and the integration to business networks, Panduit offers a comprehensive approach to the physical layer. The Unified Physical InfrastructureSM approach enables organizations to simplify their IT and network infrastructure while improving accessibility and increasing operational efficiencies.
Facilitate Health Care Information Flows, Improve Patient Care and Safety

With a greater reliance on technology to improve operating efficiencies, productivity, and patient care, while reducing risk, a state-of-the art infrastructure that is agile, flexible, and scalable is required. Increased real-time access to electronic medical records demands a high performance network that provides the necessary bandwidth to utilize systems and databases for lower response times and improved information accuracy. The convergence of medical devices and business departments along with consolidation of building systems requires standardization on a common IT systems platform to promote interoperability for increased visibility, control, and management of critical systems and data. A Unified Physical Infrastructure simplifies integration that reduces medical errors and lowers costs — ultimately improving patient satisfaction.

As IT networking serves as a nerve center for successful facilities management, control, and patient care, the physical infrastructure provides the foundation that supports medical advances and patient services to enable:

- Improved quality of care, reduced risk of medical errors, and lower operating costs by using technology to automate processes and improve database and storage management
- Greater utilization of electronic medical records and advanced clinical applications by upgrading network bandwidth with high performance, high speed data transport systems
- Increased number of mobile devices to access patient databases and work requirements facility wide, via a wireless network to improve response time
- Secure and protected patient medical records in accordance with regulatory compliance to improve identity management through physical security devices to deter unauthorized network access
- Implementation of power management practices for building systems that reduce energy consumption and lower operating costs to enable enhanced commissioning that helps meet energy performance requirements
- New systems deployments and technologies to improve visibility and control of building systems that aid infrastructure diagnosis and troubleshooting
Key Benefits

- Leverage real-time information to enhance visibility, security, safety, and compliance
- Reduce infrastructure and systems complexities while increasing functionality and manageability of mission critical capabilities
- Achieve flexibility through deployment of a platform-agnostic, open standards-based architecture
- Improve productivity and customer satisfaction by delivering higher levels of availability and reliability
- Converge, consolidate, and optimize critical systems, leveraging and reusing existing assets/investments for maximum ROI
- Drive tangible infrastructure and process improvements while reducing operational costs and mitigating risk
- Create a sustainable infrastructure for securing energy efficiencies, and establishing global best practices

Panduit’s Unified Physical Infrastructure: A Guiding Vision

For a Smarter, Unified Business Foundation

The growing interdependence of systems and applications requires the integration of traditionally disparate and proprietary systems. This trend is dramatically changing infrastructure design, management strategies, and effective synchronization of critical systems, opening the door for seamless convergence and interoperability of all core business systems and applications.

Panduit delivers end-to-end solutions that support the logical IT and network infrastructure. This flexible physical infrastructure provides the foundation that enables operational and financial advantages, minimizing risk and heightening agility. Tailored by industry and customized by application, Panduit solutions span core operations, from data centers to facilities, to next generation intelligent buildings.

Panduit has developed the industry’s most comprehensive and holistic approach to a Unified Physical Infrastructure and can help align, converge, and optimize critical systems – communication, computing, control, power, and security – to build a smarter, unified business foundation.

This approach enables the use of an open standards-based, service-oriented architecture framework and is designed to deliver tangible infrastructure and business process improvements for increased functionality, interoperability, and manageability of mission critical operations across the provider’s entire medical facility or campus.
Improve Quality of Services and Operational Efficiency

Panduit’s commitment to research and development with application expertise and strategic alliances helps healthcare organizations manage risk within the physical infrastructure. With continuous innovation, Panduit helps healthcare providers eliminate the complexities associated with systems integration, availability, and security. Panduit HealthCare Solutions, focusing on critical business areas including data centers and connected buildings, provide converged and interoperable technologies, reduced capital and operational expenses, improved visibility of key monitoring devices, and green energy-efficient operations.

Unlock Data Center Potential – Through the most comprehensive data center solutions, Panduit network infrastructure enables the delivery of secure, energy-efficient, always-on, real-time data and services to support the complete range of healthcare needs. Panduit helps manage the integration of all key elements associated with systems consolidation and network convergence while reducing risk and optimizing performance.

• Convergence of new hospital technologies and applications
• Process improvement leverages operational efficiencies through resource management with enhanced network documentation
• Optimized power usage, thermal management, and space utilization within high density deployments

Empower the Connected Building – With leading-edge connected building solutions, Panduit network infrastructure extends the reach of the IP-based network to all building system devices for enhanced manageability and control. By converging building network cabling into common pathways, networks are more secure, available, and energy efficient.

• Multiple systems send notification when an occupant has accessed a facility prompting environmental changes (lighting/HVAC), elevator access, and video security measures; when energy demands spike, building systems regulate to conserve power
• If emergency systems are activated, automatic responses are simultaneous; building doors unlock, automated announcements begin, and emergency shutdown or containment is triggered
• Physically converged infrastructures contribute toward government green initiatives by leveraging real-time information across building systems to manage energy resources more efficiently
Connect. Manage. Automate.

Panduit’s Full Range of Solutions for Health Care Delivery Organizations

Based on the principles of a Unified Physical Infrastructure™ approach, Panduit is the industry’s only single source supplier of complete end-to-end physical infrastructure solutions.

**Connectivity and Cabling** – Comprehensive end-to-end copper and fiber cabling systems that offer ease of deployment and proven performance to ensure availability, reliability, and scalability of mission critical systems. High speed data transport capabilities support graphic-intensive applications and provide a cost-effective migration path.

**Cabinets, Racks, and Cable Management** – A portfolio of innovative products with modular designs that offer greater thermal management and energy efficiency, as well as accessibility, flexibility, and effective space utilization while managing, showcasing, and protecting equipment.

**Physical Infrastructure Management** – Software platform delivers visibility and control for monitoring, managing, and automating of networks through intelligent asset identification and tracking to the physical layer integrated with intelligent hardware systems.

**Zone Cabling** – A complete line of products for open office architecture applications, telecommunications enclosures, data centers, wireless deployments and network integration of building automation systems. Optimize network design flexibility, accessibility, and efficiency.

**Routing and Cable Management** – Manage and protect high performance cabling under floors and through overhead channels to ensure system performance, reliability, scalability, and reduced cost of ownership.

**Grounding** – A visually verifiable and dedicated grounding path to maintain system performance, improve network reliability, and protect both personnel and equipment.

**Labeling and Identification** – Printers and software systems for more effective asset management, safety compliance, and simplification of moves, adds, and/or changes.

**Power Over Ethernet (PoE)** – Extend PoE over a wide range of locations and applications to offer network design flexibility and enhanced system reliability, as well as decreased installation and operating costs.

**Physical Layer Security** – Range of keyed, blockout, and lock-in connectivity systems and devices help restrict unauthorized access and tampering of the physical infrastructure.
The Panduit Difference

Realize Benefits Across Patient, Facility, and Business Needs

Panduit is a global, world-class developer and provider of leading edge solutions that help health care organizations optimize the physical infrastructure for simplification, agility, and operational efficiency. Panduit can help you deploy physical and logical IT systems, based upon the principles of the Unified Physical InfrastructureSM vision that turn the latest technologies into valuable solutions to fully address the challenges of health care delivery.

All of Panduit's solutions meet or surpass rigorous quality management standards to assure compliance with industry requirements. Our unique, robust partner ecosystem combined with our lifecycle services offer innovative modeling, predictable execution, and operational excellence.

Panduit delivers a fully integrated physical infrastructure portfolio providing an end-to-end solution designed as a “system” rather than discrete components. For example, Panduit has a full range of copper and fiber cabling systems that can be deployed independently or in combination to deliver operational and financial advantages. To minimize the potential risk of EMI effects on diagnostic and treatment equipment, shielded copper or fiber systems can be used for advanced medical technologies. Security issues are addressed by deployment of keyed systems to help manage security at the physical layer by maintaining separation of data networks aiding in the control of user access and mitigating the risk of unauthorized connections. QuickNet™ Cable Assemblies are pre-terminated and pre-tested to deliver proven performance and speed deployment for scalable, high-density applications. Moreover, these flexible cabling solutions integrate seamlessly with our energy efficient Cabinet Systems and intelligent Physical Infrastructure Management System to deliver optimum reliability and business agility to realize benefits across patient, facility and business needs.
Real-World Solutions to Ensure the Success of Our Customers

With a proven reputation for excellence and technology innovation, a robust ecosystem of global partners, and long-term alliances with top industry leaders, Panduit is a valuable, trusted partner offering strategic vision and real-world solutions to ensure the success of our customers.

Innovative Technology Leadership

Panduit is an industry leader in developing innovative technology solutions that meet the rapidly evolving needs of our customers around the world. Our commitment to continued leadership is supported by significant ongoing investment, dedicated manufacturing facilities, strategic technology alliances, and collaborative R&D with other industry leaders.

Global Business & Commitment

Panduit’s ongoing commitment to excellence enables our highly skilled and knowledgeable global sales, systems engineering, and technical support teams to engage with critical customer challenges that range from initial problem determination all the way to resolution. Local specialists, trained to global standards and competencies, provide consistent support that brings value to local programs. Our global value chain, which combines manufacturing, distribution, and service, provides prompt responses to customer-related issues, and streamlines procurement and delivery to any global destination.

Best-in-Class Partner Ecosystem

Panduit employs a consultative approach to identify customer needs and engage appropriate partners in a collaborative fashion to serve our customers. Panduit’s robust ecosystem of architects, consultants, engineers, designers, systems integrators, contractors, and distributors offer a full portfolio of lifecycle services. Our partners are trained on relevant services to Plan & Design, Build & Deploy, and Maintain & Operate to deliver predictable and measurable results.

Worldwide Alliances

Panduit has established long-term strategic alliances with top global industry leaders such as Cisco Systems, EMC, HP, IBM, Liebert, and Rockwell Automation to develop and integrate innovative, holistic solutions for our customers. We continually invest in relationships and resources for solving customers’ greatest business challenges.

Eco-Sustainability & Global Citizenship

With a long-standing commitment to environmental excellence, Panduit continually develops and implements solutions designed to protect, replenish, and restore the world in which we live and operate. This commitment is demonstrated by Panduit’s LEED-certified new world headquarters and future green building plans using its own revolutionary Unified Physical Infrastructure® vision to enable convergence of critical systems for driving sustainability.