

PANDUIT®

Infrastructure to Support Healthcare



ATLONA
a **PANDUIT** company

Digital Transformation Drives Changes to Healthcare Operations

Healthcare systems have been migrating to a more digital operating structure for years, with the Covid-19 pandemic accelerating that transformation. Today's healthcare providers have increased focus on trends like artificial intelligence (AI), big data, electronic health records (EHR), telehealth, and cloud computing to support operations and patient care.

Digital Transformation

Healthcare is taking a digital path in almost all operational aspects. The most prevalent digital transformation is the ongoing investment in electronic health records (EHR) systems, along with an increased usage of telehealth services. Additionally, all types of organizations – including healthcare – are embracing smart building technologies, which are integrating facility applications such as security, lighting, and HVAC onto the network.

All this digital transformation requires a robust network, and frequently, access to the cloud. Panduit has a long history of supporting healthcare facilities with the infrastructure to support their networks.

Pain Points

The implementation of this digital transformation comes with some challenges:

- **Cost** – Implementing new systems, such as EHR and telehealth, comes with a price tag. Healthcare organizations must realign their budgets to support these critical industry trends.
- **Security** – With more services and technologies integrated on the network, security is crucial. In the past decade, almost 5,000 healthcare organizations reported data breaches, which impacted more than 300 million individuals. As cloud-based systems become more prevalent, breaches continue to increase, leaving healthcare systems scrambling to find a solution to patch data leaks.
- **Wireless** – Myriad systems, tools, and applications rely on reliable network access wherever they are in a facility. Reliable wireless connectivity is vital and can take the form of Wi-Fi, distributed antenna systems (DAS) or other in-building wireless systems, or – most commonly – a mix of both.

Panduit Full IT Infrastructure Solution

Panduit offers network infrastructure solutions for all areas of a healthcare facility, from the data center to patient rooms, to surgical suites and labs. Whether you are trying to support an EHR system or upgrade your current network, let Panduit be your solution to preparing your infrastructure for any digital transformation.



THE PANDUIT DIFFERENCE



Quality



Performance



Innovation



Service & Support



Data Center/Telecommunication Room

The Brains of the Operation

When networks are the backbone for critical patient care systems, the data center and telecommunications room are key. You can rely on Panduit for innovative and state-of-the-art solutions to connect and protect networks for any size hospital, medical center, or clinic. This ensures network stability throughout the whole facility.

From data center cabinets that promote efficiency to pathways and cable managers to route and protect network cabling, and the latest in power solutions, data centers and TRs can help ensure uptime, and serve as the processing and communications hub that connects an entire healthcare campus.

- **EHR systems** demand data, stability, uptime, structured cabling, and always-on wireless connections, all supported by Panduit infrastructure
- **Data security** begins in the data center and telecommunications room, where physical security solutions limit access to network ports
- Many Panduit solutions offer the utmost in **flexibility**, delivering **scalability** for healthcare systems as they grow from a single site to a campus or multiple sites throughout a region



Patient Room

The Front Lines of Patient Care

A future-ready backbone and a robust infrastructure for wired and wireless devices is critical for sharing data between medical devices and electronic health records and for communication between facility systems. Sensors can track everything from patient movement and vital signs to room occupancy and the location of portable medical devices. Armed with data, medical staff have the latest patient information at their fingertips, while janitorial staff can prepare a newly vacant room for the next patient. With all these systems relying on data transmission, a robust physical infrastructure must exist behind the scenes to ensure top performance.

- **Standards-based solutions** are critical to support TIA-1179, Power over Ethernet, and Wi-Fi
- Reliable **wireless** is crucial for connected care; solutions like field term plugs or the FieldCord Connector, along with Category 6A cabling ensure always-on operation of wireless access points
- Maintaining **data security** begins at the port, where block-in and lock-out devices prevent unauthorized access to the network
- Easily **clean and disinfect** high-touch surfaces, including network faceplates
- Use the **break-away adapter** to connect healthcare carts, without worry of damage to equipment or infrastructure



Surgical Center

The Most Critical of Healthcare Spaces

While patient care is considered the highest purpose for healthcare systems, revenue isn't far behind. Healthcare systems typically generate higher revenue from surgical procedures, making operating rooms vital to a healthcare system's bottom line. Surgical suites help organizations improve their facility's capacity, patient outcomes, efficiencies, and productivity. State-of-the-art designs attract the best and brightest surgeons, while enabling the best outcomes and the best overall patient experience.

The right type of infrastructure helps to enable the applications that address many of the challenges and demands on the network:

- **EHR systems** provide instant access to patient records, images, and lab results
- Advanced technologies, including **surgical robots** and **artificial intelligence** guide and streamline procedures for improved patient outcomes
- Live **videoconferencing** pulls in expertise from specialists around the world



Lobby

The Beginning of Healthcare Services

The lobby sets the tone for patient and family experiences in the hospital. While care itself doesn't happen in the lobby, it is the beginning of the experience, as people check in and wait for appointments, pass through on their way to visit loved ones, and seek out information.

- **Wireless connectivity** is a must, as patients access health apps or entertainment options while they wait
- **Wayfinding and digital signage** help visitors and patients find their way through hallways that can sometimes feel like a labyrinth; Atlona OmniStream™ delivers the AV signals for both
- Gift shops, coffee shops, and security stations commonly house network switches in enclosures like the **TrueEdge™ Enclosure**, strategically located close to the edge devices they are serving; security handles on the enclosure limit unauthorized access to the network

Office Spaces

Telehealth, Collaboration and More

While not always patient-facing, medical facilities generally have office spaces where administrators manage the day-to-day operations, and physicians keep office hours. In these spaces, many of the same applications used throughout the healthcare system are enabled: wireless connectivity for laptops and other equipment, support for EHR systems, data security, and flexible, scalable networks to meet expansion plans.

In addition, the network infrastructure in this area of the hospital needs to support training, collaboration, and telehealth:

- **Telehealth** has changed the face of healthcare, as communication technologies make it possible for patients to remotely visit medical professionals at a distance
- Meeting rooms and training rooms house the latest in AV equipment to enable **collaboration, communication, and education**; experts from around the world can contribute to a health plan via videoconferencing, while medical staff can gather face-to-face for training



Network Infrastructure for Healthcare Technology

Healthcare environments demand reliability and robustness to deliver patient care. Rely on Panduit for solutions that support technology today and into the future.

Copper and Fiber Cabling Systems – Connect networking applications in any healthcare environment with industry-leading copper and fiber connectivity and cabling. Innovative solutions ensure a reliable, scalable network to support any application, while delivering easy installation and ongoing management. Panduit offers a full range of copper jacks, plugs, patch cords, patch panels, and horizontal cabling, and fiber-optic cabling, connectors, cable assemblies, and panels, cassettes, and enclosures.

Network Security Components – Help protect your network with a wide range of port protection devices that block unauthorized access to the network by locking in connectors or blocking open ports. Add another level of protection with locking handles for cabinets and enclosures to hinder unauthorized users from accessing the network.

Racks, Cabinets, Enclosures, and Cable Management – Build out your data center or telecommunications rooms with a full line of rugged and reliable racks and cabinets, paired with state-of-the-art cable managers that protect cabling, simplify cable and rack management, and save valuable space. When a smaller footprint is needed, you can count on Panduit enclosures to securely house and protect valuable network components.

AV Solutions – Help patients and visitors find their way with network-based digital signage from Atlona, a Panduit company. OmniStream™ powers video walls, wayfinding, and messaging screens throughout a facility or campus. In conference rooms and training spaces, Atlona provides award-winning solutions for AV distribution, collaboration, and control, which make it easy for users to connect and collaborate.

Faceplates, Outlets, Surface Raceway – Extend copper, fiber, and AV solutions within a patient room, nurse station, or doctor's office with a comprehensive line of faceplates, surface mount boxes, and surface raceway. Stainless steel faceplates withstand the cleaning protocols required for sanitary spaces, while raceway is an easy way to route cabling, especially in areas where network or AV applications weren't part of the original plan.

An Infrastructure Partner that is Aligned with Your Objectives

Environmental Stewardship Priorities

Environmental stewardship is a priority for organizations around the world, and Panduit is here to support you in your sustainability commitments. We pursue environmental stewardship opportunities that will help us achieve carbon footprint reduction, support the circular economy, eliminate waste, and drive sustainable product innovation.

- **Carbon Footprint Reduction:** Move to renewable energy sources and carbon neutrality
- **Support the Circular Economy:** Convert to post-consumer materials for products and packaging
- **Eliminate Waste:** Attain zero waste to landfill
- **Drive Sustainable Product Innovation:** Increase offering of products designed and developed with sustainability in mind

Carbon Footprint Reduction

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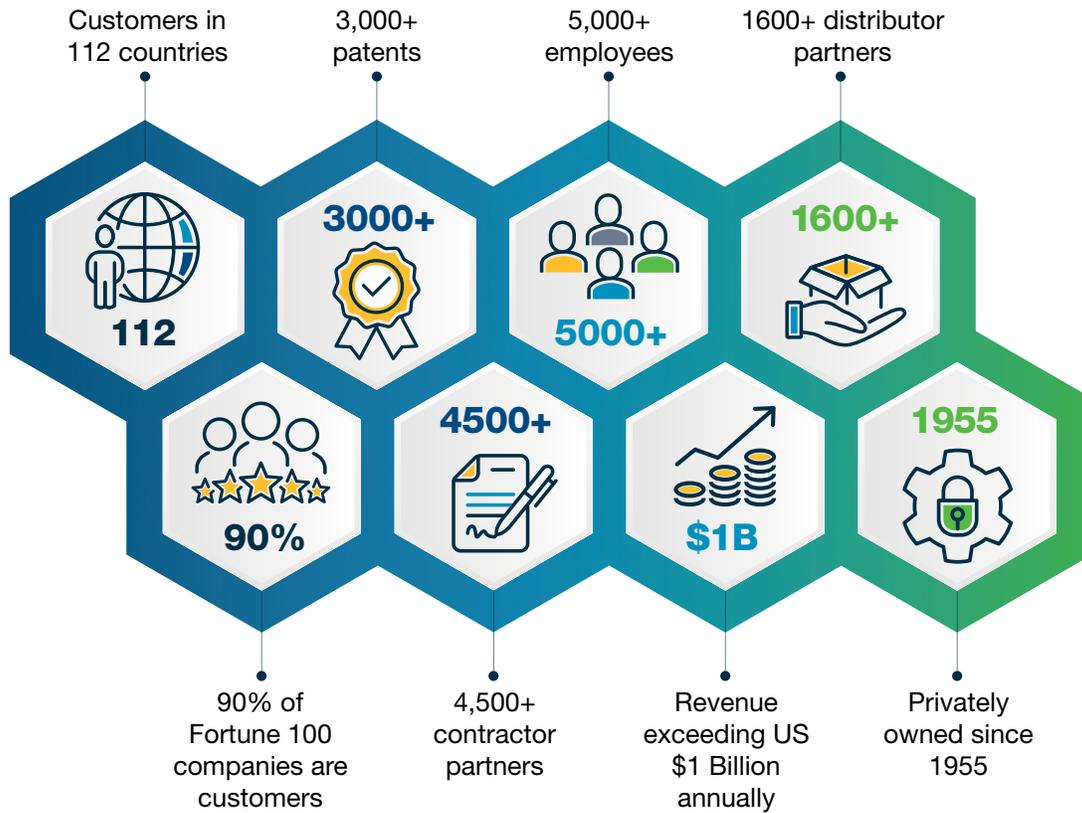
Support the Circular Economy

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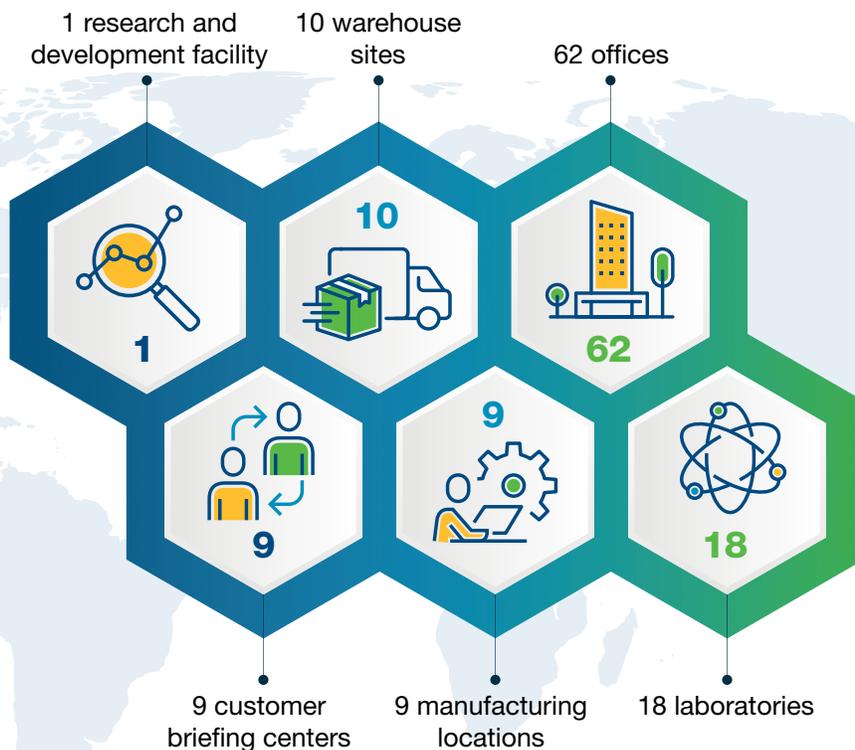
Eliminate Waste

Attain zero waste to landfill

Corporate Profile



Global Presence





Trust Panduit

When your vision is to create differentiated patient care supported by world-class facilities and a technology-based approach, you need Panduit in your corner. Our global ecosystem of partners and distributors understand both the healthcare industry and network cabling standards, to deliver a standards-based solution that will help you connect technology, systems, and people.

PANDUIT™

Panduit Corp.
World Headquarters
Tinley Park, IL 60487

cs@panduit.com
US and Canada: 800.777.3300
Europe, Middle East, and Africa:
44.20.8601.7200
Latin America: 52.33.3777.6000
Asia Pacific: 65.6305.7575