

Power + Data. One Infrastructure. Infinite Possibilities.

Deliver reliable power and high performance data across modern enterprise environments with a scalable, future ready network infrastructure

Enterprise networks are evolving faster than ever. From wireless connectivity and intelligent security systems to smart building automation and collaborative workspaces, modern facilities depend on infrastructure that can reliably deliver both power and data to every connected device.

Panduit helps organizations build resilient, scalable network infrastructures that simplify deployment, improve operational efficiency, and support the growing demands of connected buildings worldwide.

PANDUIT®



The Growing Demands on Enterprise Networks

Enterprise environments are becoming increasingly connected. Wireless access points, IP cameras, smart lighting, occupancy sensors, digital signage, building automation systems, and other connected devices are rapidly transforming how buildings operate.

As organizations modernize their facilities, network infrastructure is supporting more than just communications — it is the backbone for powering and managing intelligent building systems.

Today's Enterprise Networks Must Support:

- More connected devices at the network edge
- Higher power requirements for intelligent systems
- Greater bandwidth demands driven by wireless connectivity
- Increased expectations for uptime and reliability
- Faster deployment timelines and easier scalability
- Simplified operations across converged building systems
- Greater data integration demands for reporting and cross-platform support.

The Demand for Power in Enterprise Spaces is Accelerating

Connected devices across commercial offices, healthcare facilities, educational institutions, warehouses, and other enterprise spaces are driving unprecedented network power requirements through 2030.



IP/Surveillance Cameras

IP-based cameras represent the largest share of the surveillance market

\$43.7B → \$81.4B

11.2% CAGR* 2025-2030

Source: Grand View Research, Surveillance Camera Market Report, 2025



Access Control Systems

Commercial buildings commonly host badge readers, biometric scanners & cloud-based credential management

\$10.6B → \$15.8B

8.3% CAGR* 2025-2030

Source: MartsandMarkets, Access Control Market–Global Forecast to 2030, 2025



Wireless Access Points

Enterprise WLAN is expanding rapidly as Wi-Fi 6/6E/7 adoption drives upgrades

\$24.9B → \$45.4B

12.8% CAGR* 2025-2030

Source: Mordor Intelligence, Enterprise WLAN Market, 2025



Networked Lighting Controls

IoT-enabled sensors are driving adoption of energy-efficient lighting control systems

\$45.4B → \$82.9B

12.8% CAGR* 2025-2030

Source: Mordor Intelligence, Lighting Control System Market, 2025

Every one of these devices requires network power. Each IP camera, badge reader, wireless access point, and lighting node places a growing demand on enterprise network infrastructure, which traditional building electrical systems were never designed to meet.

Why Deliver Power Through the Network?

Using the network to deliver power provides significant advantages for enterprise organizations:



Simplicity A single infrastructure for both power and data reduces complexity, minimizes cabling requirements, and streamlines deployment.



Flexibility Devices can be deployed where they are needed most without relying on wherever the nearest AC power is installed.



Scalability As connected devices continue to grow, network-based power delivery allows organizations to expand infrastructure more efficiently.



Operational Efficiency Centralized management improves visibility, simplifies maintenance, and helps reduce operational costs.



Reliability Centralized backup power and intelligent monitoring support higher system availability.

Today's enterprise networks must deliver more power, more bandwidth, and more reliability — all while reducing complexity and simplifying operations.



A Smarter Approach to Building Infrastructure

Modern enterprise environments require infrastructure solutions that are intelligent, scalable, and ready for future demands. Panduit delivers comprehensive solutions that help organizations simplify infrastructure while supporting the growing convergence of power and data.

A Single Infrastructure Supports Both Power and Data

Converged network architectures deliver both power and data through a unified infrastructure and over a single cable.

- **Fault Managed Power System (FMPS):** Fault Managed Power technology enables safe delivery of higher power levels over longer distances, supporting intelligent building systems and connected devices
- **Category 6A Cabling Systems:** Category 6A cabling and connectivity is the foundation for Power over Ethernet, enabling power and data delivery over the same cable. PoE simplifies deployments for wireless access points, IP cameras, access control systems, smart lighting, shades, desks, and other connected devices

Simplified Design and Installation

Accelerate deployment and improve infrastructure visibility.

- **RapidID™ Network Mapping System:** Automate cable documentation to simplify installation and moves, adds, and changes over the life of the network
- **Racks and Cable Management:** Robust, scalable telecommunication racks and high-density cable managers install easily and optimize space in telco rooms

Improved Network Performance and Reliability

Reliable network performance starts with dependable physical infrastructure.

- **Critical Power Solutions:** Intelligent power distribution and UPS solutions support uptime, optimize performance, and improve operational visibility

Reduced Operational Costs

Standardized, scalable infrastructure installs easily, simplifies maintenance, and improves long-term operational efficiency.

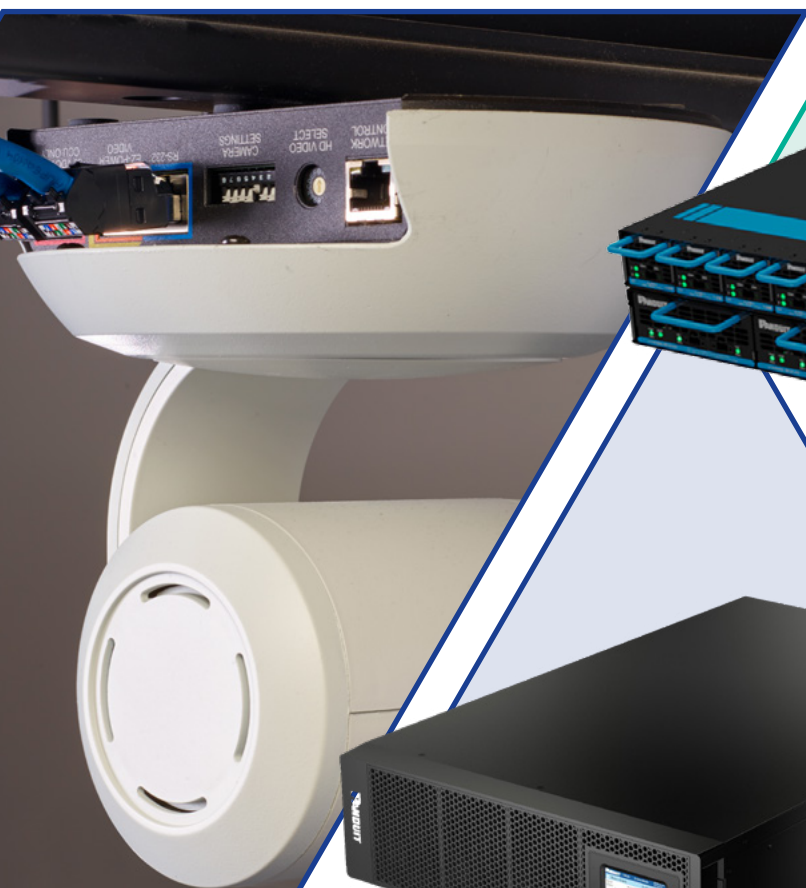
- **Standards-based Connectivity:** Panduit industry-leading network connectivity products are engineered for fast and easy installation, with long-lasting, reliable performance



Scalable Architecture for Future Technologies

As enterprise networks evolve, organizations need infrastructure that can scale to support higher bandwidth, greater device density, and expanding edge connectivity.

- **Extended Reach Cabling:** Extended Reach copper cables help connect and power devices beyond traditional distance limitations while maintaining reliable performance



Built for Today's Most Demanding Connected Systems

Wireless Connectivity

Wireless connectivity is essential for modern enterprise environments. From office collaboration and mobile learning to connected healthcare and retail experiences, reliable wireless infrastructure is critical to operational success.

As Wi-Fi technologies evolve, networks must support increasing bandwidth demands, higher device densities, and greater power requirements at the network edge.

The Panduit Solution

- Category 6A cabling systems
- High-performance connectivity
- PoE-ready infrastructure
- Cable management solutions
- Network mapping and identification

Supporting Next-Generation Wireless Networks

Panduit solutions help support:

- Wi-Fi 6/6E/7 deployments
- High-density enterprise environments
- Campus-wide wireless coverage
- Reliable PoE delivery to wireless access points
- Location services and occupancy analytics



How They Did It: Purdue University

Purdue University modernized its campus network infrastructure to support high-density wireless connectivity across learning environments, collaboration spaces, and campus facilities.

[▶ Learn More](#)



CHALLENGE

- Support growing wireless demands while maintaining reliable performance across a large campus environment



SOLUTION

- Panduit structured cabling and connectivity solutions provided a scalable foundation for next-generation wireless infrastructure



RESULTS

- Improved wireless performance
- Simplified infrastructure management
- Scalable support for future campus technologies

Security & Access Control

Security systems are increasingly intelligent, connected, and distributed across enterprise facilities. Infrastructure must support a growing number of IP cameras, access control systems, emergency communication devices, and building monitoring technologies.

PoE and FMPS allow security systems to be deployed where they are needed most — including parking lots, building perimeters, remote access points, and other challenging environments.

Supporting Intelligent Security Infrastructure

Panduit solutions help support:

- IP video surveillance systems
- Exterior and perimeter security cameras
- Access control systems
- Building monitoring systems
- Emergency communication devices

The Panduit Solution

- Extended Reach cable
- Field term plugs for flexible deployments
- Fault Managed Power Systems (FMPS)
- Industrial and enterprise connectivity
- Network enclosures



How They Did It: Miller Electric

Miller Electric required reliable power delivery for a government customer.

[▶ Learn More](#)



CHALLENGE

- Support distributed security infrastructure while simplifying deployment and improving reliability



SOLUTION

- Fault Managed Power enabled scalable deployment of security systems, while supporting centralized management



RESULTS

- 22% savings over traditional Class 1 AC power circuits
- 50% material cost savings
- 42% labor cost reduction
- Estimated 78% drop in yearly operational costs

Built for Today's Most Demanding Connected Systems

Smart Building & IoT

Smart building technologies are moving out of planning and into the building. Applications like connected lighting, occupancy sensors, environmental monitoring, building automation systems, and more are transforming buildings while improving operational efficiency, sustainability, occupant experience, and infrastructure visibility.

These systems all rely on reliable power and data infrastructure.

The Panduit Solution

- Copper and Fiber Connectivity
- Critical Power: UPS and PDU
- Faceplates and Outlets
- Identification
- Cable Pathways
- Cable Management

Enabling Smart Buildings

Panduit solutions help connect and power:

- Smart lighting and shading systems
- Environmental monitoring
- Occupancy sensors
- Building automation systems
- Intelligent facility management
- IT and OT systems across a converged network infrastructure



How They Did It: Cisco Atlanta

Cisco leverages smart building technologies in all of their new office buildouts. The Cisco Atlanta space is a connected workplace that improved collaboration, efficiency, and user experience.

[▶ Learn More](#)



CHALLENGE

- Support modern smart building environments with scalable connectivity and intelligent infrastructure



SOLUTION

- Panduit infrastructure solutions, including Category 6A cabling to support PoE, provided a reliable foundation for connected building systems and smart technologies



RESULTS

- Improved operational efficiency
- Enhanced user experience
- Scalable infrastructure for future growth

Collaboration and Connected Experiences

The way people work, learn, and engage continues to evolve. Today's office spaces are frequently defined by a mixture of collaboration spaces and hoteling areas, where individuals and teams can connect and collaborate.

Seamless connectivity is a must for frictionless in-office experiences. From PoE-powered desktops to room scheduling systems and intuitive AV, the network – and the network infrastructure – are foundational for modern enterprises.

Supporting Connected Experiences

Panduit solutions help organizations deploy and support:

- Conference room technologies
- Interactive displays and touch panels
- Digital signage
- Room scheduling systems
- Unified communication platforms
- Flexible workspaces and learning environments



Cisco Spaces + Panduit

Leveraging Cisco Spaces with Panduit infrastructure enables better business outcomes through intelligent infrastructure – positively impacting occupants and facility teams.

[▶ Learn More](#)



CHALLENGE

- Limited visibility into how spaces are used
- Underutilized collaboration areas
- Changing occupancy patterns
- Lack of actionable data to improve occupant experiences



SOLUTION

- Panduit infrastructure solutions, plus Cisco Spaces cloud-based networking platform.



RESULTS

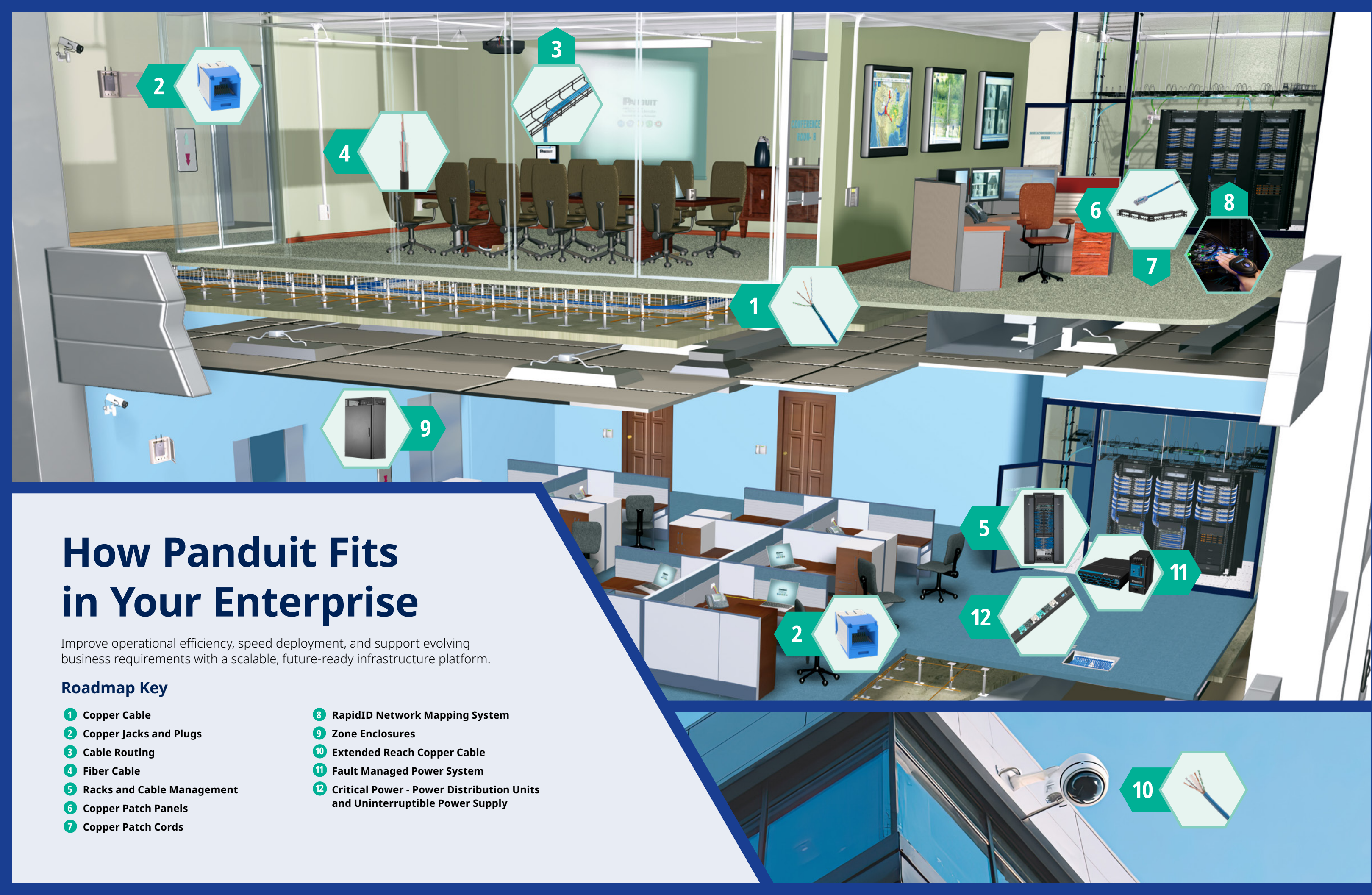
- Optimized workplace design and resource allocation
- Improved employee, student, and visitor experiences
- Increased use of collaborative spaces
- Improved operational efficiency
- Maximized infrastructure investments

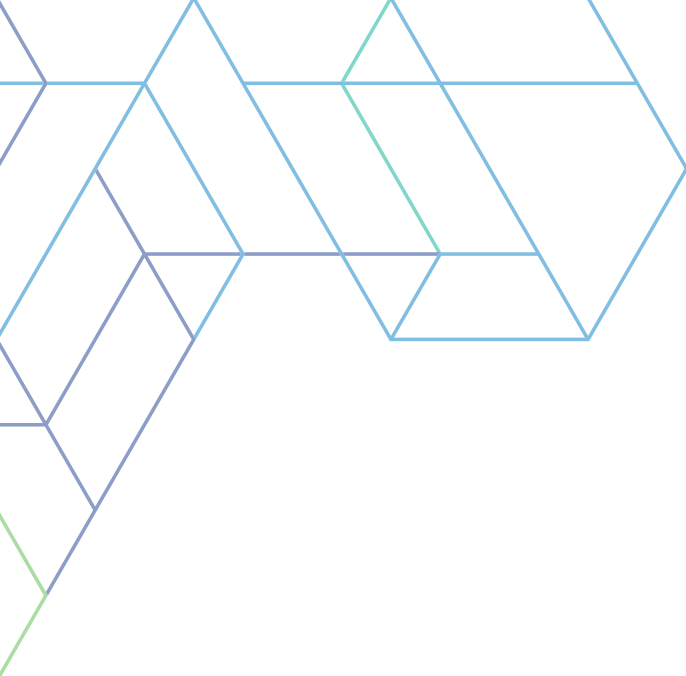
How Panduit Fits in Your Enterprise

Improve operational efficiency, speed deployment, and support evolving business requirements with a scalable, future-ready infrastructure platform.

Roadmap Key

- 1 Copper Cable
- 2 Copper Jacks and Plugs
- 3 Cable Routing
- 4 Fiber Cable
- 5 Racks and Cable Management
- 6 Copper Patch Panels
- 7 Copper Patch Cords
- 8 RapidID Network Mapping System
- 9 Zone Enclosures
- 10 Extended Reach Copper Cable
- 11 Fault Managed Power System
- 12 Critical Power - Power Distribution Units and Uninterruptible Power Supply





Panduit: A Provider You Can Trust

Since the 1950s, organizations around the world have trusted Panduit to help build reliable, scalable, and innovative infrastructure solutions.

From healthcare facilities and university campuses to corporate headquarters, retail environments, and government institutions, Panduit solutions support mission-critical operations where performance matters most.

When infrastructure matters, choose Panduit.

panduit.com



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PANDUIT™
infrastructure for a connected world