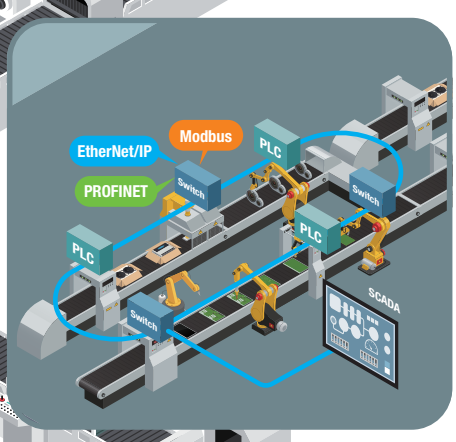
Your Playbook for a Scalable and Reliable OT Network



Want to build a resilient OT network worthy of the connected world? Look no further! The journey to futureproof your operations starts here.

As IT and OT systems converge, industrial networks are increasingly embracing open architecture to support a growing number of applications. Traditionally, OT networks are isolated and independent, making it a real challenge for OT engineers to build futureproof network infrastructure that meets the demands of today and tomorrow. Let‘s tap into Maxwell’s wisdom and explore some helpful tips to navigate each key checkpoint to futureproof your OT network and take full advantage of IT/OT convergence.

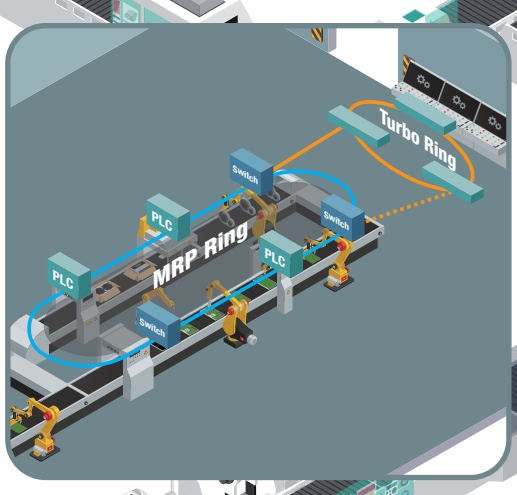


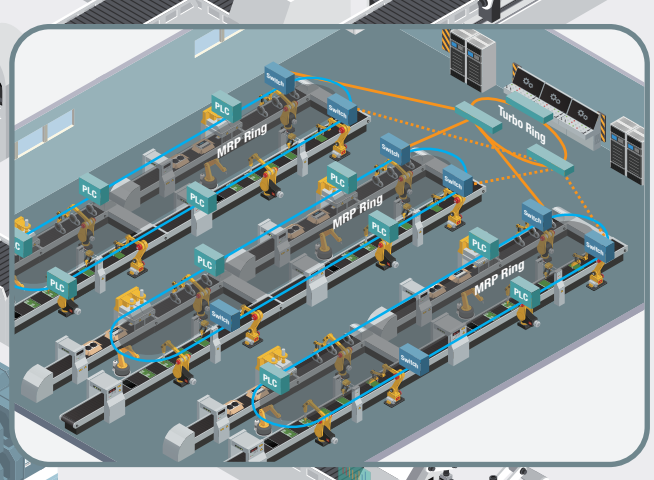
Seamless Control: Interoperability Is Everything

Manufacturing and process automation are increasingly relying on real-time data exchange and coordinated control. To seamlessly integrate the necessary components such as PLCs and SCADA systems, interoperability between industrial protocols like EtherNet/IP, Modbus, and PROFINET is critical. Switches that can recognize and prioritize different types of protocol traffic are essential for building flexible, scalable, and future-ready automation networks.

Steadfast Reliability: A Flexible Approach to Redundancy

For modern industrial networks, non-stop operations are non-negotiable. It's important to incorporate robust redundancy measures to minimize downtime. This can involve things such as data continuity functions, embedded device redundancy, and backup power supplies. When connecting the control and distribution layers, having the flexibility to communicate with different redundancy technologies can significantly reduce effort and boost network adaptability.



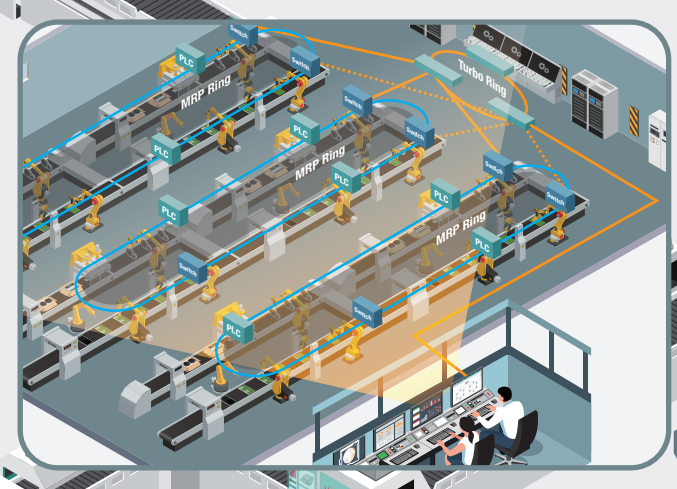


Effortless Expansion: Stay Flexible to Stay Ahead

Is your factory struggling to keep up with growing demand? Don't worry! There is no need to rebuild your entire infrastructure. Modular network design offers a flexible approach that grows with you, saving you both time and money. Ring topologies make expansion a breeze, letting you add devices and production lines without revamping your entire network. Also make sure your network devices are capable of handling additional traffic and connections down the line.

Smart Management: Do More With Less Effort

When networks become more interconnected and grow in scale, network visualization and remote management are key to running things efficiently. This includes monitoring tools to track key performance metrics such as bandwidth usage and packet errors, proactive issue detection, and data collection for planning future upgrades.





Robust Security: Keep Your Operations Safe

As OT networks get bigger and integrate with IT systems, they're also becoming prime targets for cyberthreats. That makes security a top goal for any OT network. Implementing robust security measures, such as firewalls, intrusion detection systems, segmentation, and access control policies ensures both network protection and availability when transitioning to a converged IT/OT infrastructure.



Ready to Unlock Your Factory's Full Potential?

Learn how our futureproof industrial networking solutions can help you implement these strategies and transform your industrial operations. Discover our solutions at:

www.moxa.com/FutureproofNetworks

Your Trusted Partner in Automation

Moxa is a leading provider of edge connectivity, industrial computing, and network infrastructure solutions for enabling connectivity for the Industrial Internet of Things (IIoT). With over 35 years of industry experience, Moxa has connected more than 111 million devices worldwide and has a distribution and service network that reaches customers in more than 91 countries. Moxa delivers lasting business value by empowering industries with reliable networks and sincere service. Information about Moxa’s solutions is available at www.moxa.com.

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