

SECURE REMOTE ACCESSIBILITY FOR MANUFACTURING MACHINERY

SUMMARY

Industry 4.0 is revolutionizing the manufacturing sector. The use of automation and AI enables reaching efficiency levels like never before. Integrating previously separate systems and processes lead to increased operational performance, data-driven decisions, and an optimized supply chain. Utilizing big data and analytics eliminate a big portion of required human intervention, while increasing competitiveness, profitability, and productivity.

CHALLENGE

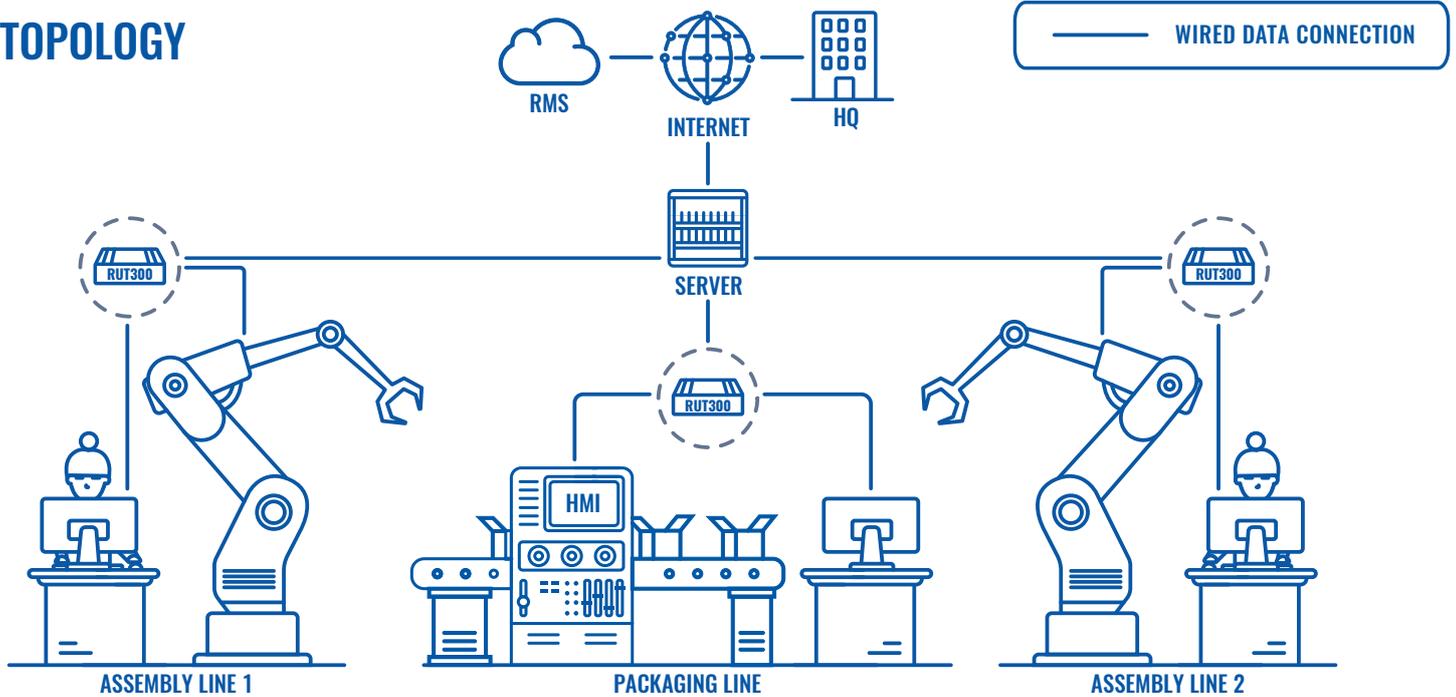
In manufacturing facilities, usually, various complicated specialized machinery and equipment are present that require trained engineers to be configured and looked after. Often, they are supplied by various vendors and if one part stops functioning as it should it may cause troubles for the whole production line and consequently - delays and losses.

Besides, the recent worldwide pandemic showed that in no time a big number of employees might become temporarily unavailable due to isolation requirements and the site may lose the necessary workforce required to resolve unforeseen challenges. In such situations, secure remote accessibility and management become essential. Therefore, professional industrial networking equipment is a must to connect these machines and provide remote management, while ensuring the security and reliability of the internet connection.

SOLUTION

One of the biggest benefits of connecting the manufacturing machinery to the network is the ability to collect data. RUT300 industrial Ethernet router has five Ethernet ports, two configurable digital Inputs/Outputs, and a USB to easily connect the various equipment and computers to the internet. Preconfigured Firewall ensures the security of the solution from the very start and multiple top-rated VPNs provide data encryption.

TOPOLOGY



Besides, a broad interval of supported power voltages makes this product suitable for a wide range of electronic equipment. Its rugged industrial design with a wide range of tolerated temperatures and vibration resistance makes this device durable and easily applicable in various settings.

One of the biggest benefits of this solution lies in the Remote Management System (RMS). While RMS Management allows to remotely access RUT300 for updates and maintenance, RMS Connect enables to do the same with the machinery behind the router. This means that an engineer does not have to be present in a manufacturing facility to be able to configure, troubleshoot and manage the equipment. It's also possible to set-up Events Reporting when an email is sent out after a specific event occurs listed in pre-configured rules.

BENEFITS

- Remote Accessibility – RMS Connect allows to reach, configure and provide maintenance for a complete solution solution.
- Security – preconfigured Firewall for immediate use and multiple VPN protocols to choose from.
- Industrial design – the device supports multiple industrial protocols, is made of a rugged aluminium housing, I/Os, supports wide range of power supply voltages.
- Event reporting – notifies whenever anything goes out of ordinary as per pre-set rules to resolve issues as fast as possible and reduce the possible harm to the ecosystem.
- Data collection – for monitoring, analytics, optimization and event prediction.

WHY TELTONIKA NETWORKS?

Teltonika Networks have many years of experience in the development of industrial devices. Working with various projects through trial and error we managed to create a portfolio of networking devices required by the various sectors in the market. Continuous communication with clients allows us to get valuable feedback and make the necessary improvements in our hardware and firmware to stay at the top of the game among professional networking equipment manufacturers. This is also how we created and developed our Remote Management System which eased up the lives of many of our partners.

