

AirLink® XR80 for Private Networks – Manufacturing Applications – Increasing flexibility and efficiency through improved automation integration

Meet Sandra

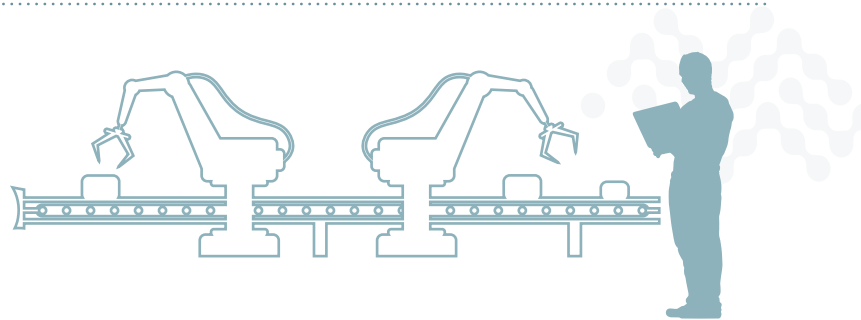


Sandra is a Senior Manufacturing Engineer for a large automotive company. Sandra's company installed a private cellular network in one of their manufacturing facilities to see how they might leverage 5G to unlock the potential of Industry 4.0 and smart factories through improved automation and supply chain control.

THE CHALLENGE

GAIN FLEXIBLY AND COST SAVINGS BY RELIABLY CONNECTING MACHINERY TO CLOUD-BASED PROGRAMMABLE LOGIC CONTROLLERS (PLCs)

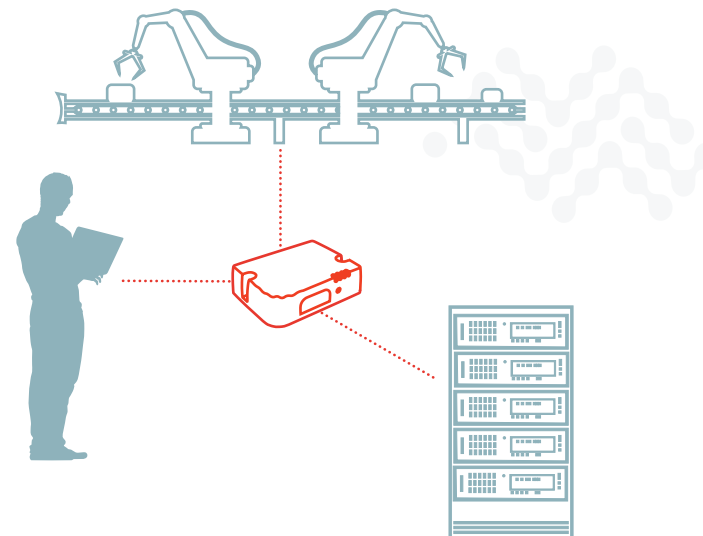
Sandra is looking to implement cloud-based programmable logic controllers (PLCs) in her factory to deliver real-time control for robotics and machinery without the need for ethernet connections or hardware-based PLCs. This greatly reduces factory costs and increases flexibility. Sandra also wants to leverage the 5G private network to deliver real-time video monitoring and supply chain control.



THE SOLUTION

INSTALL AIRLINK XR80 CELLULAR ROUTERS IN MANUFACTURING MACHINERY TO IMPLEMENT CLOUD-BASED PLCs

With 5G Gigahertz connection speeds and millisecond latency, the AirLink XR80 can deliver the real-time connectivity needed to implement wireless cloud-based PLCs through the company's private network. The AirLink XR80s are simple to install and set up and can be effectively monitored and managed through AirLink Management Service (ALMS.) The AirLink XR80's advanced security ensures that connectivity to individual machines is secure. The high bandwidth capabilities of the XR80 allows Sandra to set up real-time video monitoring of machinery to ensure proper operation.



THE RESULTS

INCREASED FLEXIBILITY AND EFFICIENCY

Sandra's company can now reliably leverage cloud-based PLCs to improve flexibility and lower costs. The AirLink XR80 works seamlessly with the company's private network and helps improve quality and oversight through real-time video and data monitoring. Improvements in asset tracking and inventory can also be achieved with the AirLink XR80 through cellular connectivity and advanced Wi-Fi.

sierrawireless.com/XR80