Private 5G
Facilitating communication and connectivity for Defense, Transportation, Manufacturing and more

NEEDS AND CHALLENGES

- **High cost**: A major barrier for the customer was the significant investment towards operations, infrastructure, and routine maintenance
- **Technology upgrades**: Upgrading legacy equipment and infrastructure was tedious to take on
- **Complexity**: Complex process requiring highly specialized, knowledgeable resources in-house
- **Environmental needs**: Rugged hardware built for harsh temperatures, spaces and environments was a necessity
- **Flexibility**: They wanted a standard server that could be tweaked to adapt to different use cases
- **Latency**: Low-latency for real-time communications throughout the network was a high priority
- **Security concerns**: Customer needed a trusted network for mission-critical applications and ultra-sensitive data handling secure from external threats
- **Server that lasts**: Customer required a server they could rely on past the suggested 3 – 5 year mark

BENEFITS OF KONTRON ME1310

- **Lower costs**: Customer now uses less equipment for AC/heat, cabling, power, and freed up more space with an all-in-one integrated solution, ultimately reducing OPEX and TCO
- **Optimization**: An optimized secure solution with integrated switch and other functions translated to more OPEX and CAPEX savings
- **Environmental**: Rugged servers with short depth and support for wide temperature range (-40°C to 65°C) were installed in tight, hard to reach spaces and function reliably
- **Long lifecycle**: Extended hardware lifespan of up to 10 years reduced unnecessary upgrades saving money in the long term
- **Intelligent flexibility**: Servers are designed to be used as intelligent building blocks and customer now has ample support from Kontron integration partners
- **Low-latency**: Integrated switch module with high precision timing ensures low-latency connections
TARGETED DEPLOYMENTS

Defense
A private 5G network deployed on a defense base or military truck provides secure communication channels for military personnel, allowing them to transmit sensitive information without the risk of interception or unauthorized access.

Retail/campuses/hospitals
Servers facilitate communication between devices and operating personnel within a secure network environment.

Manufacturing
Functions and hardware acceleration of servers help software partners deploy AI, machine learning, cybersecurity and edge computing applications for data analysis, automation and optimal decision making in a secure network.

Transportation
A private 5G network enables secure communications between trains and railway lines in non-trusted areas.

Learn more:
ME1310 High Performance Multi-Edge Platform

For more information about our ME1310 platform or to speak to a member of our sales team, contact us directly at: telecomedia@kontron.com