

## 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



 ME1310 High Performance Multi-Edge Platform

## 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](mailto:telecomedia@kontron.com)

