Lanner

5G READY SRV6 MOBILE USER PLANE SOLUTION

SOLUTION BRIEF

ARRCUS
NETWORK DIFFERENT

The SRv6 Mobile User Plane (MUP) is an innovative solution designed for 5G deployments, offering a streamlined approach to building high-capacity networks. It delivers enhanced scalability, reliability, and significant reductions in operational costs. Lanner has partnered with Arrcus to deliver an SRv6 MUP solution that bridges mobile and IP/cloud-native technologies, enabling advanced Mobile Edge Computing (MEC) and Network Slicing capabilities. This solution achieves superior cost efficiency and operational simplicity compared to legacy network technologies.

Use Cases

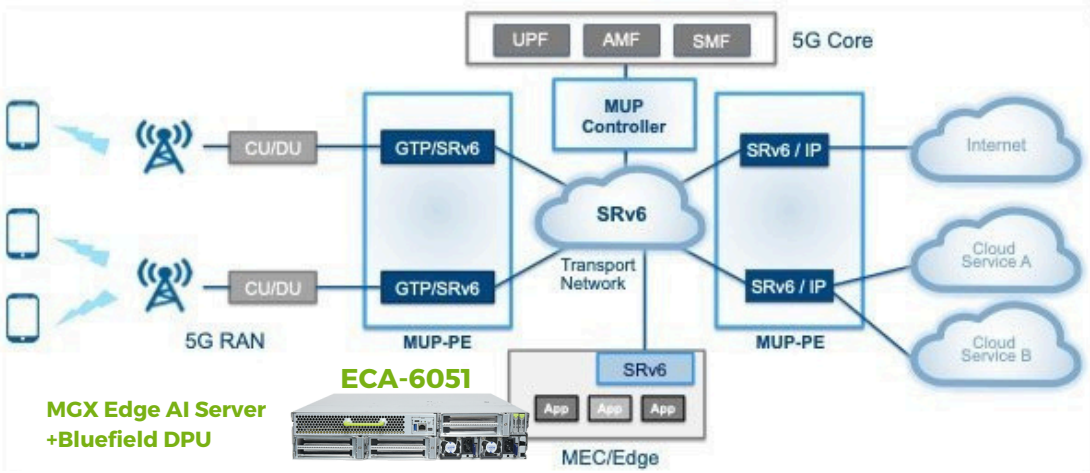
- Network Slicing for Priority Services - Enable end-to-end network slicing to prioritize edge computing applications.
- Offloading Network Processing - Shift compute-heavy tasks like IPSec and TLS to edge servers, easing central infrastructure load.
- Virtualized SRv6 MUP for AI-RAN - Deploy SRv6 MUP at the edge to optimize data paths and support low-latency AI applications.

Key Benefits

- Higher Throughput and Energy Efficiency
- Reduced Latency and Simplified Scaling
- Enhanced Scalability for Real-Time Edge Computing Applications

Solution: Arrcus SRv6 MUP on Lanner MGX Edge AI Server

The Arrcus SRv6 MUP solution, co-hosted with MUP-Controller and MUP-GW on Lanner's MGX Edge AI Server ECA-6051, leverages NVIDIA BlueField-3 SmartNICs and an Intel Xeon 6 processor to optimize edge computing. This architecture minimizes latency, supports seamless mobility, and is tailored for mission-critical 5G edge computing applications.



ECA-6051

- Intel® Xeon®6 Processor up to 144 Cores
- 8x DDR5 6400MHz RDIMM, Max. 1024GB System Memory
- 3x PCIe*16 slots, with NVIDIA L40S GPU or Bluefield-3 DPU support
- 1x GbE RJ45, 1x RJ45 Console, 1x USB 3.0
- 2x M.2 NVMe (PCIe), 2x E1.S SSD
- 6x Smart Fans, 2x 1600W AC CRPS PSU