ALL OUTDOOR RADIO – MICROWAVE

MOBILE WIRELESS BACKHAUL 🦰

HIGHLIGHTS

LTTS Engineered a next-generation Mobile Wireless Backhaul solution.

- Single Box All Outdoor Pole Mount solution : Zero Foot Print
- I Fanless Design Green Solution
- Integrated L2 Switch
- // GbE and Optical Interfaces

CHALLENGE

- // Timing closure with 93% utilization
- // Fitting the logic in one single device

SOLUTION

- We optimized the placement using placement constraint & timing constraint.
- *I* By using resource optimization techniques in synthesis tool, we were able to reduce utilization from 105% to 93% without compromising on features



SCOPE – FPGA

- Module level Design and top level integration
- // Feature addition/changes and bug fixes
- // RTL coding in VHDL
- // Test bench and Test cases
- Integration of 3rd party lps
- Chip level/module level verification
- // Lint, CDC, Synthesis
- // Timing Analysis and Timing Closure
- # Bit file generation
- **FPGA** validation plan and setup

SCOPE – HARDWARE & FIRMWARE

- Hardware Specification & Architecture Design.
- Hardware Board Design & Development
- // Firmware BSP and Diagnostics
- // Design Analyses SI, Thermal
- Mechanical Design Integration
- Support for Prototype Production & System Integration
- Custom Process Definition