Blu Wireless is the market leader in multi-gigabit connectivity providing leading-edge technology with ultra-fast and seamless 5G mmWave solutions. The company’s unique mmWave products are engineered for emerging connectivity needs and can accelerate your competitive advantage. This will empower you to harness multi-gigabit connectivity for even the most challenging environments; from smart cities, 5G backhaul, and security networks to connected vehicles and high-speed rail.

“The Cadence Tempus Timing Signoff Solution and Tempus ECO Option enabled us to achieve our aggressive 5G mmWave design tapeout schedule. The tight integration between the Innovus Implementation System and Tempus solutions delivered reduced closure iterations, significant power improvement, and 1.4X faster design closure time, enabling us to get to market more quickly with the best performing product.”

Davide Sarta, SVP Engineering

**Blu Wireless’ 5G mmWave Modem Taped Out Using the Cadence Tempus Timing Signoff Solution and Tempus ECO Option**

**Design**
- 5G mmWave baseband wireless modem for wireless backhaul and fixed infrastructure wireless access

**Challenges**
- 20M-instance design with multiple hierarchies, sub-hierarchies, and blocks
- Minimize iterations between implementation and timing signoff
- Concerned about turnaround time for timing ECOs with more than 100 timing views
- Need precise timing ECOs of several multiply-instantiated modules with different orientations
- Minimize leakage power and identify dynamic power savings during RTL development

**Benefits**
- Reduced iterations with implementation flow from 30 to 4
- Achieved PPA targets faster due to the correlation between Innovus™ Implementation System and Tempus™ Timing Signoff Solution
  - Leakage power recovery of ~14% with Tempus ECO Option and dynamic power reduced by ~12% using Joules™ RTL Power Analysis
- Predictable and physically aware ECO reduced project turnaround time by 1.4X
- Automated distribution of concurrent STA jobs using distributed mode resulted in rapid turnaround time
- Highly knowledgeable and outstanding support staff in UK-assisted design teams

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