

**Project**

Large, Concurrent Multi-Board Design

Application

Banking Equipment

Customer Need

Customer was faced with critical time-to-market deadlines involving a total of 11 printed circuit board layouts of varying complexity.

AVID's Solution

AVID was able to apply the resources of its entire PCB layout department totaling 545 man-hours in 14 business days. AVID's project management expertise was instrumental in the design review process between the customer and contract assembler, allowing efficient scheduling of assembly line resources and availability. As a result, AVID ultimately met all the customer's performance, product cost and time-to-market targets.

Value Added or Technologies Applied

- Concurrent Design Effort
- Ultra Fast Delivery
- Impedance Controlled
- Project Management and Coordination

**Project**

Complex Digital Circuit Board with Radio

Application

Networking Communications

Customer Need

A new start-up company faced with a critical time-to-market schedule to introduce a new product at an industry trade show required on call services to meet schedules.

AVID's Solution

AVID provided complete library development to IPC-7351A standards and PCB layout and simulation services for signal integrity verification of DDR2 memory. Within the layout, AVID utilized high-speed processor/dual DSPs, each with DDR2 memory, and applied extensive attention to thermal management. The radio layout proved extremely challenging due to the small form factor. The unit was completed and demonstrated successfully, leading to a promising new product introduction.

Value Added or Technologies Applied

- Impedance Controlled
- Pre-Layout Simulation
- Length Matched Constrained Routing
- Thermal Planning