



Project
Large Digitizer Printed Wiring Board

Application
Medical System

Customer Need

Customer's engineered equipment required including a very high-speed, very dense yet low-cost single printed circuit board.

AVID's Solution

AVID utilized a .093" thick, 9U form factor. The entire design was impedance-controlled with 4,100 components placed both primary and secondary side including 16,000 inches of matched length and differential pair signals. AVID provided high-speed signal simulation and analysis with design rule definition to ensure a successful, accurate design.

Value Added or Technologies Applied

- 20 Layers Maximizing Signal Integrity Performance
- Impedance Controlled
- 4 Mil Trace/Space
- 3.125 Gb/s Data Rates
- Pre-Route Simulation for Length Constraints