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Texas Instruments Incorporated
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Contact: Tom Kilgo 972-997-3097
Tom Jones 972-997-3322

Dallas LMDS Experiment

Pre-production solid state equipment was added to replace all of the brassboard RF equipment. Equipment was added to evaluate simultaneous two way digital transmission of Internet access via ISDN rates, MPEG and JPEG video delivery, conference calling, and telephony. Frequencies changed to span the 27500-28500 MHz range with a maximum transmit power of 0.5W/carrier.

International Technical Demo

Dallas evaluation system was taken out of service and installed in vehicles to form a movable evaluation system to take to an international location during a license application evaluation. Purpose was to evaluate 2 way digital performance at 28GHz.

Atlanta Technology -Experiment

Completed the Atlanta trial and removed the radio equipment from service. Survey was conducted of the participants in the trial to evaluate the LMDS equipment.

Equipment Tests - Dallas

Long term bit error rate testing was done during this period over a simulated 5 kilometer distance to test long term performance. Test data from component failures used to specify performance standards for production equipment. Tests indicated the components most likely to fail during extended use.

LMDS equipment was successfully integrated with various vendor's telephony equipment and successful over the air evaluations were completed.