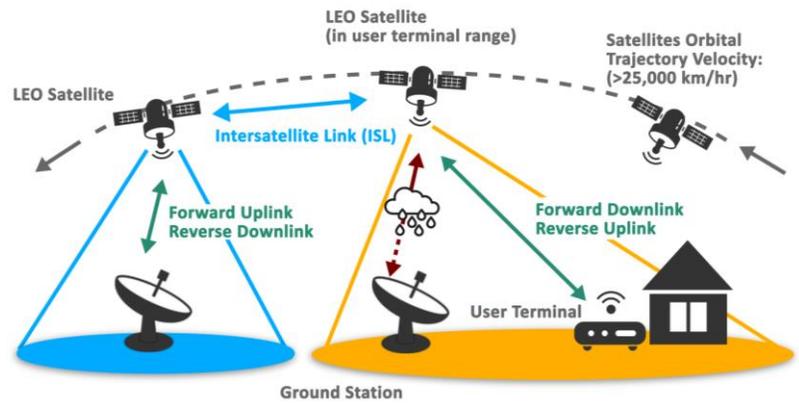
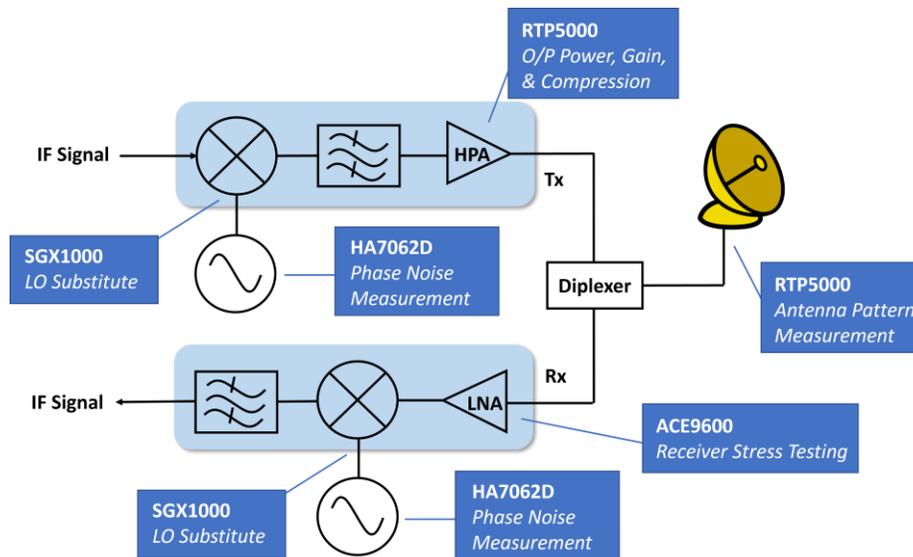


Uplink & Downlink Testing for Satellite Communications Systems

Deployments of low Earth orbit (LEO) satellites are happening at an ever-increasing rate. Due to the reduced latency of LEO systems, they are becoming, or will become, the system of choice for both civil/commercial and military applications including, but not limited to, 5G and military battlefield communications. Use of LEO systems for these types of operation leads to very demanding test requirements to ensure reliable operation.



Maury Microwave interconnect solutions, which include cable assemblies and adapters, ensure highly reliable, repeatable measurements for satellite systems. In addition, a demonstration showcases how solutions from Boonton, dBm, Holzworth, and Noisecom enable physical layer testing throughout the RF and microwave path of the uplink and downlink. The demonstration on the bench shows examples of these measurements, including propagation delay and 5G TDD network timing, noise tolerance testing, satellite amplifier linearity, phase noise analysis, and characterizing antenna performance.



Target Users:

Target users include design engineers and technicians engaged in design, verification, and troubleshooting of the RF and microwave physical layer subsystems used in the uplinks and downlinks of ground and space segments.

