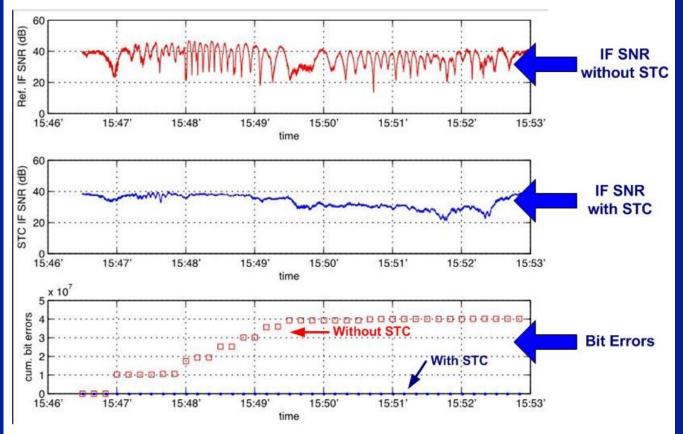


info@instrumentation.it - www.instrumentation.it

SPACE TIME CODING (STC) SOLUTION

Illustrations and flight test data used with permission of the authors—originally published in "Space-Time Coding for Aeronautical Telemetry: Part II" - Experimental Results by Michael Rice, Brigham Young University, and Kip Temple, Air Force Flight Test Center, Edwards AFB, California, USA, in *Proceedings of the International Telemetering Conference, Las Vegas, NV, October, 2011.*



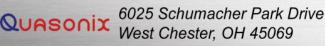
Problem: "Two-antenna interference"

- · Upper and lower antennas are required to provide LOS path during aircraft maneuvers
- · Signals can cancel each other, creating antenna pattern nulls

Solution: Space Time Coding (STC)

Advantages of the Quasonix Space Time Coding Solution:

- Eliminates link outages caused by the "two-antenna problem"
 - Improves behavior of received signal power
 - · Improves overall link availability
- Two transmit/One receive configuration
 - Compatible with standard telemetry applications and installations
- STC signal spectrum is the same as SOQPSK, with minimal bandwidth expansion (4%)
- Available as a software upgrade to Quasonix RDMS™ Telemetry Receivers. Note: Quasonix Dual Transmitter required.



Instrumentation Devices T: 513-942-1287

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Instrumentation Devices Srl Via Acquanera 29 - 22100 COMO (Italy) ph +39 031 525 391- fax +39 031 507 984 info@instrumentation.it - www.instrumentation.it