

Preliminary Functional Tests of the DRTM-LOG1300 Assembly

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The DRTM-LOG1300 (uLOG) is a MTCA.4 compliant multi-channel local oscillator generator and high frequency signal and clock fan-out module. The module provides the fanout for 9 high frequency reference, 9 local oscillator and 9 calibration signals in the range from 400MHz to 6GHz. In addition, the module provides 22 configurable low jitter differential clock signals in the range up to 160MHz for high-precision ADC sampling applications. The uLOG assembly consists of two boards, the uLOG-RF that generates the CAL, and LO signals from the input REF, and the uLOG-Carrier that distributes these signals, as well as a Clock to the custom RF back-plane. Both boards have been manufactured and tested, as an assembly, for noise and RF characteristics. This data, as well as the final mechanical design, is presented.

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