Real-time 2.5 Gbit/s ultra-wideband transmission using a Schottky diode-based envelope detector - DTU Orbit (20/04/2019)

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An experimental demonstration of 2.5 Gbit/s real-time ultra-wideband transmission is presented, using a Schottky diode-based envelope detector fabricated ad-hoc using microstrip technology on a Rogers6002 substrate and surface-mount components. Real-time transmission with a BER below FEC threshold is achieved for 20 cm of wireless transmission at 2.5 Gbit/s and 50 cm at 1.25 Gbit/s.

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