

**Hamidian A., Malignaggi A., Shu R., Ali M.K., and Boeck G.,
“Multigigabit 60 GHz OOK Front-End in 90 nm CMOS,”
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Abstract: In this work an on-off shift keying transmitter front-end for 60 GHz wireless communication is presented. To enhance the transmitter performance, a novel modulator topology is implemented. Designed and fabricated in 90 nm CMOS, the transmitter occupies 0.38 mm² and provides 8 dBm output power with 36 mW DC power consumption. The transmitter measurement in a complete 60 GHz wireless set-up showed more than 6 Gbit/s data rate over 4 m distance.