

Abstracts

A re-configurable receiver architecture for 3G mobiles

B. Minnis and P. Moore. "A re-configurable receiver architecture for 3G mobiles." 2002 Radio Frequency Integrated Circuits (RFIC) Symposium 02. (2002 [RFIC]): 187-190.

A re-configurable, highly-integrated receiver architecture is described for use in 3rd-generation mobile handsets. It is intended for dual-mode UMTS and GSM operation but should be capable of operating in other modes such as CDMA2000. The receiver achieves its adaptability by using a single down-conversion approach to either a zero IF or a near-zero IF and then digitizing as much of the IF signal chain as possible. Notwithstanding its reconfigurability, system simulations indicate that the receiver should achieve state-of-the-art performance.

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