

Abstracts

A new paradigm for base station receivers: high IF sampling + digital filtering

T. Gratzek, B. Brannon, J. Camp and F. Murden. "A new paradigm for base station receivers: high IF sampling + digital filtering." 1997 Radio Frequency Integrated Circuits (RFIC) Symposium 97. (1997 [RFIC]): 143-146.

A dual-channel, IF sampling receiver IC with fast RSSI and AGC is described. The ADC samples with only 200 femto second aperture jitter and is used to digitize intermediate frequencies (IFs) up to 250 MHz. A companion digital filter and mixer processor provides 1657 MOPs; together they provide a flexible platform for use in a new generation of digital receivers for various radio standards.

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