

## Fully integrated W-CDMA IF chip-set for UMTS mobiles

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*W. Thomann, J. Fenk, R. Hagelauer and R. Weigel. "Fully integrated W-CDMA IF chip-set for UMTS mobiles." 2001 Radio Frequency Integrated Circuits (RFIC) Symposium 01. (2001 [RFIC]): 25-28.*

A fully integrated Si bipolar IF-receiver and IF-transmitter with on-chip synthesizer for use in third-generation variable duplex W-CDMA mobiles is introduced. Both devices incorporate an IF-synthesizer with on-chip VCO tuning and tank as well as 5th order baseband filters and comply with ARIB W-CDMA and UMTS standards. The devices are mounted in a small outline, 32 pin, leadless surface mount package.

 [Return to main document.](#)