

# Abstracts

## Adaptive antenna receiver module for WLAN at C-band with low-power consumption

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*F. Ellinger and W. Bachtold. "Adaptive antenna receiver module for WLAN at C-band with low-power consumption." 2002 Microwave and Wireless Components Letters 12.9 (Sep. 2002 [MWCL]): 348-350.*

A low-power consuming adaptive antenna receiver module at C-band for 802.11a and HIPERLAN is presented. The highly integrated GaAs microwave monolithic integrated circuit consists of low noise amplifiers, calibration switches and a vector modulator with 360/spl deg/ phase control and over 15 dB gain control. At 5.2 GHz, the module has a maximum gain of 12.5 dB, a noise figure of 2.7 dB, and a 1 dB output compression point of -7 dBm. The module draws only 2.3 mA up to 3.5 mA from a 2.7 V supply. Chip size is 1.9 mm /spl times/ 1.6 mm.

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