

Title (en)
UNIVERSAL RF RECEIVER

Title (de)
UNIVERSELLER HF-EMPFÄNGER

Title (fr)
RECEPTEUR HF UNIVERSEL

Publication
EP 0872021 A1 19981021 (EN)

Application
EP 96927313 A 19960731

Priority
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Abstract (en)
[origin: WO9706604A1] A universal receiver (10) for processing RF signals modulated by various analog and digital modulation techniques. The receiver (10) includes a down converter (52) for converting received RF signals to in-phase and quadrature zero IF signals, and active low pass filter (106, 108) for channel selection and an up converter (132, 134) for converting the channel selected in-phase and quadrature zero IF signals to an IF signal. Only moderate system gain is introduced at zero IF in order to avoid increasing any DC offsets. The receiver (10) further includes DC offset compensation circuitry and a period-to-digital (P/D) converter (260) for quantizing the IF signal. A signal processor (35) equalizes and demodulates the IF signal to recover the transmitted signal.

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H04B 1/16

IPC 8 full level
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