

Title (en)

A WIDEBAND COMMUNICATIONS RECEIVER AND A METHOD FOR RECEIVING DATA FRAMES FROM A WIRELESS DEVICE IN A WIRELESS LOCAL AREA NETWORK

Title (de)

BREITBANDKOMMUNIKATIONSEMPFÄNGER UND VERFAHREN ZUM EMPFANG VON DATENFRAMES VON EINER DRAHTLOSEN VORRICHTUNG IN EINEM DRAHTLOSEN LAN

Title (fr)

RECEPTEUR DE COMMUNICATIONS A LARGE BANDE ET PROCEDE DE RECEPTION DE TRAMES DE DONNEES DEPUIS UN DISPOSITIF SANS FIL DANS UN RESEAU LOCAL SANS FIL

Publication

**EP 1969728 A1 20080917 (EN)**

Application

**EP 06842585 A 20061218**

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Abstract (en)

[origin: WO2007074413A1] The invention relates to a wideband communications receiver (1), especially a receiver in a wireless local area network, comprising: - an antenna interface module (RFM) including a low noise amplifier (3, 3.1, 3.2) connected to an antenna (2, 2.1, 2.2); - an analog front-end section (AFE) including: a preceding radio frequency amplifier (5); a direct down-converter (6) for down-conversion of amplified radio frequency signals ( $f^A$ ) directly to baseband into differential IQ signals (IQ); a succeeding amplifier (8.1, 8.2) for amplifying the differential IQ signals (IQ) into saturation; - an baseband controller (7) directly processing the amplified IQ signals (IQ) bitwise.

IPC 8 full level

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