

Title (en)

WIRELESS COMMUNICATION APPARATUS WITH MULTI-ANTENNA AND METHOD THEREOF

Title (de)

DRAHTLOSE KOMMUNIKATIONSVORRICHTUNG MIT MEHRFACHANTENNE UND VERFAHREN DAFÜR

Title (fr)

DISPOSITIF DE TRANSMISSION SANS FIL COMPORTANT DE MULTIPLES ANTENNES ET PROCEDE ASSOCIE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2006027728A2] This invention proposes a wireless communication apparatus and its method. The wireless communication apparatus comprises: multiple antennas, a multiple-antenna signal processing module, a RF signal processing module and a baseband processing module. The multiple-antenna signal processing module is designed to combine multiple RF signals received from the multiple antennas into a single RF signal. The RF signal processing module is designed to convert the combined single RF signal into a single baseband signal. The baseband processing module is designed to perform baseband processing on the single baseband signal. This wireless communication apparatus realizes a multi-antenna system by simply inserting a multiple-antenna signal processing module into a typical singleantenna system. Both the RF signal processing module and baseband processing module of existing single-antenna system remain unchanged. Therefore, the redesign process is greatly simplified, which results in remarkable reduction of design difficulty and implementation cost.

IPC 8 full level

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