A Receiver Module And Method For Receiving A Signal Using Diversity Switched Combining

ABSTRACT

A receiver module and method for receiving a signal using diversity switched combining, the receiver module comprises a receiver circuit for converting and demodulating an incoming signal received via an antenna, the receiver circuit being arranged for estimating channel amplitudes, phases, or both at a plurality of carrier frequencies; a quality estimation unit for estimating signal qualities at the plurality of carrier frequencies based on the estimated channel amplitudes, phases, or both, and for determining a reference quality level based on the estimated signal qualities over a time period; and a quality evaluation unit for determining a number of low quality carrier frequencies of the plurality of carrier frequencies, the low quality carrier frequencies having respective estimated qualities below the reference quality level.

FIG. 2