

DATA TRANSMISSION METHOD AND APPARATUS

ABSTRACT

This application provides a data transmission method and an apparatus, to reduce a PAPR of data, along with a smaller computing amount and lower device complexity. In the method, a first
5 apparatus generates first frequency domain data, and the first apparatus maps the first frequency domain data to a tone included in a transmission bandwidth for transmission. The transmission bandwidth includes a first transmission bandwidth and a second transmission bandwidth, the first frequency domain data includes second frequency domain data mapped to a first tone included in the first transmission bandwidth and third frequency domain data mapped to a second tone
10 included in the second transmission bandwidth, and the second frequency domain data is in mirror conjugation and alternating negation with the third frequency domain data. According to the foregoing solution, the transmit end maps the data duplicated in frequency domain to the first tone and the second tone respectively, and the duplicated frequency domain data is in mirror conjugation and alternating negation with each other. This reduces a PAPR of data, achieves a
15 smaller computing amount in comparison with an exhaustive method, and reduces device complexity.

FIG. 3