

COMMUNICATION APPARATUS AND COMMUNICATION METHOD

ABSTRACT

In a communication apparatus, a modulator performs an orthogonal modulation on a preamble signal and a header signal of each of two adjacent channels used in an aggregation transmission thereby generating two single carrier signals shifted in frequency bands of the respective two channels. An OFDM signal generator performs an IFFT process collectively on payload signals of the two adjacent channels used in the aggregation transmission thereby generating OFDM signals of the two channels. An antenna transmits the OFDM signals of the two channels.

[FIG. 7]