ABSTRACT

The present disclosure provides a communication apparatus and a communication method for dual stream dual carrier modulation DCM), the communication apparatus comprising: circuitry, which, in operation, is configured to set first information indicating whether a mapping of two or more modulation symbols modulated from an information bit of a signal to two or more subcarriers is applied across two or more spatial streams of an orthogonal frequency division multiplexing (OFDM) symbol and second information indicating whether a data rate adjustment is applied to the signal; and a transmitter, which, in operation, transmits the signal with the mapping of the two or more modulation symbols across the two or more spatial streams and/or the data rate adjustment, the signal comprising the first information and the second information.

[Figure 13]