PHYSICAL LAYER PROTOCOL DATA UNIT–BASED COMMUNICATION METHOD AND APPARATUS

ABSTRACT

A PPDU-based communication method and apparatus are disclosed, are used in a wireless local area network system that supports 802.11 series protocols such as a next-generation Wi-Fi protocol of IEEE 802.11ax, for example, 802.11be, Wi-Fi 7, or EHT, and a next-generation protocol of 802.11be, for example, Wi-Fi 8, and may be further used in a UWB-based wireless personal local area network system, a sensing (sensing) system, and the like. A transmit end generates a PPDU, and sends the PPDU on a first high frequency channel. Correspondingly, a receive end receives the PPDU on the first high frequency channel, and processes the PPDU. The first high frequency channel may include a first pilot subcarrier and a first data subcarrier, a quantity of first pilot subcarriers is greater than a quantity of second pilot subcarriers, and a quantity of first data subcarriers is equal to a quantity of second data subcarriers. This can effectively improve demodulation accuracy of the receive end.

FIG. 2