

UWB-BASED PPDU TRANSMISSION METHOD AND APPARATUS

ABSTRACT

This application relates to a UWB-based PPDU transmission method and an apparatus. The method includes: Two communication parties exchange a PPDU. The PPDU includes a first
5 sequence. The first sequence is a ternary perfect sequence, and a periodic cross-correlation function of the first sequence and a second sequence belonging to a same sequence pair has a maximum of three different values. According to embodiments of this application, interference between devices can be reduced. This application is applied to a UWB-based WPAN system, a sensing system, or the like, including 802.15 series protocols, for example, the 802.15.4ab standard
10 or a next-generation standard of 802.15.4ab. This application may be further applied to a WLAN system supporting 802.11 series protocols such as a next-generation Wi-Fi protocol of 802.11ax like 802.11be, Wi-Fi 7, or EHT, a next-generation protocol of 802.11be like Wi-Fi 8 or UHR, or Wi-Fi AI.

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FIG. 6