CLAIMS

1. A communication method, wherein the method comprises:

generating a physical layer protocol data unit PPDU; and

transmitting the PPDU in a high frequency band, wherein a bandwidth for transmitting the PPDU comprises 128 subcarriers, and a quantity of pilot subcarriers in the 128 subcarriers is greater than 6.

2. The method according to claim 1, wherein the quantity of pilot subcarriers in the bandwidth for transmitting the PPDU is any one of the following: 8, 10, 12, 14, 16, 18, and 20.

3. The method according to claim 1, wherein a quantity of data subcarriers in the bandwidth for transmitting the PPDU is less than 108.

4. The method according to claim 3, wherein the quantity of data subcarriers in the bandwidth for transmitting the PPDU is 102.

5. The method according to claim 1, wherein a quantity of guard subcarriers in the bandwidth for transmitting the PPDU is less than or equal to 11.

6. The method according to claim 1, wherein the quantity of pilot subcarriers is 12, and pilot values of the pilot subcarriers are any one of the following:

[1 1 1 –1 –1 1 1 1 1 –1 –1 1],

[1 1 1 –1 –1 1 1 1 1 1 1 –1], and

[1 1 1 –1 1 1 1 –1 –1 1 1 1]; or

the quantity of pilot subcarriers is 14, and pilot values of the pilot subcarriers are any one of the following:

[1 1 1 –1 –1 1 1 1 1 1 1 –1 –1 1], and

[1 1 1 –1 –1 1 1 1 1 –1 –1 1 1 1].

7. The method according to claim 1, wherein the quantity of pilot subcarriers is 12, and indexes of the pilot subcarriers are [–51, –42, –33, –24, –15, –6, 6, 15, 24, 33, 42, 51], or [–53, –39, –25, –18, –11, –7, 7, 11, 18, 25, 39, 53]; or

the quantity of pilot subcarriers is 14, and indexes of the pilot subcarriers are [–53, –45, –37, –29, –21, –13, –5, 5, 13, 21, 29, 37, 45, 53], or [–55, –53, –39, –25, –18, –11, –6, 6, 11, 18, 25, 39, 53, 55].

8. The method according to claim 1, wherein

the quantity of data subcarriers in the bandwidth for transmitting the PPDU and a coding scheme of the data subcarriers are the same as a quantity of data subcarriers in a resource unit RU or a multiple resource unit MRU and a coding scheme of the data subcarriers, and a quantity of subcarriers comprised in the RU or the MRU is less than 242.

9. The method according to claim 8, wherein the RU is an RU comprising 106 subcarriers, and the 106 subcarriers comprise 102 data subcarriers.

10. The method according to claim 1, wherein the bandwidth for transmitting the PPDU is 320 MHz or 640 MHz.

11. A communication method, wherein the method comprises:

receiving a physical layer protocol data unit PPDU in a high frequency band, wherein a bandwidth for transmitting the PPDU comprises 128 subcarriers, and a quantity of pilot subcarriers in the 128 subcarriers is greater than 6; and

parsing the PPDU.

12. The method according to claim 11, wherein the quantity of pilot subcarriers in the bandwidth for transmitting the PPDU is any one of the following: 8, 10, 12, 14, 16, 18, and 20.

13. The method according to claim 11, wherein a quantity of data subcarriers in the bandwidth for transmitting the PPDU is less than 108.

14. The method according to claim 13, wherein the quantity of data subcarriers in the bandwidth for transmitting the PPDU is 102.

15. The method according to claim 11, wherein a quantity of guard subcarriers in the bandwidth for transmitting the PPDU is less than or equal to 11.

16. The method according to claim 11, wherein the quantity of pilot subcarriers is 12, and pilot values of the pilot subcarriers are any one of the following:

[1 1 1 –1 –1 1 1 1 1 –1 –1 1],

[1 1 1 –1 –1 1 1 1 1 1 1 –1], and

[1 1 1 –1 1 1 1 –1 –1 1 1 1]; or

the quantity of pilot subcarriers is 14, and pilot values of the pilot subcarriers are any one of the following:

[1 1 1 –1 –1 1 1 1 1 1 1 –1 –1 1], and

[1 1 1 –1 –1 1 1 1 1 –1 –1 1 1 1].

17. The method according to claim 11, wherein the quantity of pilot subcarriers is 12, and indexes of the pilot subcarriers are [–51, –42, –33, –24, –15, –6, 6, 15, 24, 33, 42, 51], or [–53, –39, –25, –18, –11, –7, 7, 11, 18, 25, 39, 53]; or

the quantity of pilot subcarriers is 14, and indexes of the pilot subcarriers are [–53, –45, –37, –29, –21, –13, –5, 5, 13, 21, 29, 37, 45, 53], or [–55, –53, –39, –25, –18, –11, –6, 6, 11, 18, 25, 39, 53, 55].18. A communication apparatus, comprising a processor, wherein the processor is configured to perform the method according to any one of claims 1 to 17.

19. A communication apparatus, comprising a logic circuit and an interface, wherein the logic circuit is coupled to the interface; and

the interface is configured to input and/or output code instructions, and the logic circuit is configured to execute the code instructions, to enable the method according to any one of claims 1 to 17 to be performed.

20. A computer-readable storage medium, wherein the computer-readable storage medium is configured to store a computer program, and when the computer program is executed, the method according to any one of claims 1 to 17 is performed.