CLAIMS

1. A PPDU transmission method, comprising:

generating a physical layer protocol data unit (PPDU), wherein the PPDU is a null data packet (NDP), the PPDU comprises an extremely high throughput-signal (EHT-SIG) field, a number of the EHT-SIG symbols is 1, and the EHT-SIG field is modulated by using binary phase shift keying (BPSK) and a code rate of 1/2; and

sending the PPDU.

2. The method according to claim 1, wherein the PPDU further comprises a universal signal (U-SIG) field, the U-SIG field comprises a subfield indicating the number of the EHT-SIG symbols, and the number of the EHT-SIG symbols is 1.

3. The method according to claim 2, wherein the U-SIG field further comprises a modulation and coding scheme (MCS) subfield, and the MCS subfield indicates that the EHT-SIG field is modulated by using the BPSK and the code rate of 1/2.

4. The method according to claim 2 or 3, wherein an NDP indication subfield or a PPDU format subfield in the U-SIG indicates that the PPDU is in an uncompressed mode.

5. The method according to any one of claims 1 to 4, wherein the EHT-SIG field further comprises: a subfield indicating a number of space streams, and subfield indicating the number of the EHT-SIG symbols.

6. A PPDU transmission method, comprising:

receiving a physical layer protocol data unit (PPDU), the PPDU comprises an extremely high throughput-signal (EHT-SIG) field; and

identifying, that the PPDU is a null data packet (NDP) according to a number of the EHT-SIG symbols is 1, and the EHT-SIG field is modulated by using binary phase shift keying (BPSK) and a code rate of 1/2; and

performing channel estimation by using the NDP.

7. The method according to claim 6, wherein the PPDU further comprises a universal signal, (U-SIG) field, the U-SIG field comprises a subfield indicating the number of EHT-SIG symbols, the number of EHT-SIG symbols is 1.

8. The method according to claim 6 or 7, wherein the method further comprises:

identifying, that the PPDU is in an uncompressed mode according to an indication of an NDP

indication subfield or a PPDU format subfield in the U-SIG field.

9. The method according to claim 6 or 7, the U-SIG field further comprises a modulation and coding scheme (MCS) subfield, and the MCS subfield indicates that the EHT-SIG field is modulated by using the BPSK and the code rate of 1/2.

10. The method according to any one of claims 6 to 9, wherein the EHT-SIG field further comprises: a subfield indicating a number of space streams, and a subfield indicating a symbol number of the EHT-LTF field.

11. A PPDU transmission apparatus, comprising a processing unit and a transceiver unit, wherein

the processing unit is configured to generate a physical layer protocol data unit (PPDU), wherein the PPDU is a null data packet (NDP), the PPDU comprises an extremely high throughput-signal (EHT-SIG) field, a number of EHT-SIG symbols is 1, and the EHT-SIG field is modulated by using binary phase shift keying (BPSK) and a code rate of 1/2; and

the transceiver unit is configured to send the PPDU.

12. The transmission apparatus according to claim11, wherein the PPDU further comprises a universal signal (U-SIG) field, the U-SIG field comprises a subfield indicating the number of the EHT-SIG symbols, and the number of the EHT-SIG symbols is 1.

13. The transmission apparatus according to claim 12, wherein the U-SIG field further comprises a modulation and coding scheme (MCS) subfield, and the MCS subfield indicates that the EHT-SIG field is modulated by using the BPSK and the code rate of 1/2.

14. The transmission apparatus according to claim 12 or13, wherein an NDP indication subfield or a PPDU format subfield in the U-SIG indicates that the PPDU is in an uncompressed mode.

15. The transmission apparatus according to any one of claims 11 to 14, wherein the EHT-SIG field further comprises: a subfield indicating a number of space streams, and a subfield indicating a symbol number of the EHT-LTF field.

16. A PPDU transmission apparatus, comprising a transceiver unit and a processing unit, wherein

the transceiver unit is configured to receive a physical layer protocol data unit (PPDU), the PPDU comprises an extremely high throughput-signal (EHT-SIG) field; and

the processing unit is configured to identify the PPDU is a null data packet (NDP) according

to a number of EHT-SIG symbols is 1, and the EHT-SIG field is modulated by using binary phase shift keying (BPSK) and a code rate of 1/2, and perform channel estimation by using the NDP.

17. The transmission apparatus according to claim 16, wherein the PPDU further comprises a universal signal (U-SIG) field, the U-SIG field comprises a subfield indicating the number of the EHT-SIG symbols, and the number of the EHT-SIG symbols is 1.

18. The transmission apparatus according to claim 16 or 17, wherein the U-SIG field further comprises a modulation and coding scheme (MCS) subfield, and the MCS subfield indicates that the EHT-SIG field is modulated by using the BPSK and the code rate of 1/2.

19. The transmission apparatus according to any one of claims 16 to 18, wherein the EHT-SIG field further comprises: a subfield indicating a number of space streams, and a subfield indicating a symbol number of the EHT-LTF field.

20. A PPDU transmission apparatus, comprising a processor and a transceiver, wherein when the processor executes a computer program or instructions in a memory, the method according to any one of claims 1 to 5 is implemented, or the method according to any one of claims 6 to 10 is implemented.

21. A PPDU transmission apparatus, comprising a processor, wherein the processor is coupled to a memory, and is configured to: read instructions in the memory, and implement, according to the instructions, the method according to any one of claims 1 to 5, or the method according to any one of claims 6 to 10.

22. A PPDU transmission apparatus, configured to implement the method according to any one of claims 1 to 5, or the method according to any one of claims 6 to 10.

23. A computer-readable storage medium, wherein the computer-readable storage medium stores computer instructions; and when the computer instructions are executed by a processor, the method according to any one of claims 1 to 5 is implemented, or the method according to any one of claims 6 to 10 is implemented.

24. A computer program product, wherein when the computer program product is executed on a computer, the method according to any one of claims 1 to 5 is implemented, ar the method according to any one of claims 6 to 10 is implemented.