CLAIMS

What is claimed is:

1. An information transmission method, wherein the method comprises:

receiving, by a terminal device based on a bandwidth of a first signal, the first signal sent by a first network device, wherein the first signal comprises N first symbols, a modulation scheme of the first symbol is amplitude shift keying ASK modulation or on-off keying OOK modulation, N is a positive integer, and the first signal is an orthogonal frequency division multiplexing OFDM signal;

determining, by the terminal device, duration of the first symbol, wherein the duration of the first symbol is one of duration of at least one first symbol that is associated with the bandwidth of the first signal; and

determining, by the terminal device based on the duration of the first symbol, an information bit carried in the N first symbols.

2. The method according to claim 1, wherein

the duration of the at least one first symbol that is associated with the bandwidth of the first signal is predefined; or the duration of the at least one first symbol that is associated with the bandwidth of the first signal is configured by the first network device by using configuration information, and the configuration information is carried in radio resource control RRC signaling or media access control MAC signaling.

3. The method according to claims 1 and 2, wherein the method comprises:

receiving, by the terminal device, a second signal, wherein the second signal indicates one of the bandwidth of the first signal and/or the duration of the at least one first symbol that is associated with the bandwidth of the first signal.

4. The method according to claim 3, wherein the second signal further indicates a first field, and the first field comprises one or more of the following: a coding multiple of a line code of the first signal, a channel coding code rate of the first signal, or a quantity of bit repetitions of the first signal; and

the determining, by the terminal device based on the duration of the first symbol, an information bit carried in the N first symbols comprises:

determining, by the terminal device based on the duration of the first symbol and the first field, the information bit carried in the N first symbols.

5. The method according to claim 3 or 4, wherein the second signal is further used by the terminal device to perform time and frequency synchronization.

6. The method according to any one of claims 3 to 5, wherein the second signal comprises M

same third signals in time domain, a value of M indicates one of the bandwidth of the first signal and/or the duration of the at least one first symbol that is associated with the bandwidth of the first signal, and M is a positive integer.

7. The method according to any one of claims 3 to 5, wherein the second signal comprises M same third signals, time domain masks on the M third signals indicate one of the bandwidth of the first signal and/or the duration of the at least one first symbol that is associated with the bandwidth of the first signal, and M is a positive integer.

8. The method according to any one of claims 5 to 7, wherein the second signal comprises Q second symbols, a modulation scheme of the second symbol is ASK modulation or OOK modulation, Q is a positive integer, the second signal is an OFDM signal, there is an association relationship between a bandwidth of the second signal and duration of one second symbol, and the method further comprises:

determining, by the terminal device based on the duration of the second symbol that is associated with the bandwidth of the second signal, an information bit carried in the Q second symbols.

9. An information transmission method, wherein the method comprises:

sending, by a first network device, a first signal to a terminal device, wherein the first signal comprises N first symbols, a modulation scheme of the first symbol is amplitude shift keying ASK modulation or on-off keying OOK modulation, N is a positive integer, the first signal is an orthogonal frequency division multiplexing OFDM signal, and duration of the first symbol is one of duration of at least one first symbol that is associated with a bandwidth of the first signal.

10. The method according to claim 9, wherein

the duration of the at least one first symbol that is associated with the bandwidth of the first signal is predefined; or the duration of the at least one first symbol that is associated with the bandwidth of the first signal is configured by the first network device by using configuration information, and the configuration information is carried in radio resource control RRC signaling or media access control MAC signaling.

11. The method according to claim 9 or 10, wherein the method comprises:

sending, by the first network device, a second signal to the terminal device, wherein the second signal indicates one of the bandwidth of the first signal and/or the duration of the at least one first symbol that is associated with the bandwidth of the first signal.

12. The method according to claim 11, wherein the second signal further indicates a first field, and the first field comprises one or more of the following: a coding multiple of a line code of the first signal, a channel coding code rate of the first signal, or a quantity of bit repetitions of the first

signal.

13. The method according to claim 11 or 12, wherein the second signal is further used by the terminal device to perform time and frequency synchronization.

14. The method according to any one of claims 11 to 13, wherein the second signal comprises M same third signals in time domain, a value of M indicates one of the bandwidth of the first signal and/or the duration of the at least one first symbol that is associated with the bandwidth of the first signal, and M is a positive integer.

15. The method according to any one of claims 11 to 13, wherein the second signal comprises M same third signals, time domain masks on the M third signals indicate one of the bandwidth of the first signal and/or the duration of the at least one first symbol that is associated with the bandwidth of the first signal, and M is a positive integer.

16. The method according to any one of claims 13 to 15, wherein the second signal comprises Q second symbols, a modulation scheme of the second symbol is ASK modulation or OOK modulation, Q is a positive integer, the second signal is an OFDM signal, and there is an association relationship between a bandwidth of the second signal and duration of one second symbol.

17. The method according to claim 16, wherein the bandwidth of the second signal and the duration of the second symbol that is associated with the bandwidth of the second signal are predefined.

18. A communication apparatus, comprising a processor and a memory, wherein the processor is coupled to the memory, and the processor is configured to implement the method according to any one of claims 1 to 8 , or the processor is configured to implement the method according to any one of claims 9 to 18.

19. A chip, comprising a processor and an interface, wherein the processor is coupled to the interface; and

the interface is configured to: receive or output a signal, and the processor is configured to execute code instructions, so that the method according to any one of claims 1 to 8 is performed, or the method according to any one of claims 9 to 18 is performed.

20. A computer-readable storage medium, wherein the computer-readable storage medium stores computer-executable instructions, and when the computer-executable instructions are invoked by a computer, the computer is enabled to perform the method according to any one of claims 1 to 8, or when the computer-executable instructions are invoked by a computer, the computer is enabled to perform the method according to any one of claims 9 to 18.