

CLAIMS

1. A bandwidth allocation method, comprising:

receiving Discontinuous Reception (DRX) indication information, the DRX indication information being used for a terminal device to determine a working bandwidth to be used within a DRX cycle; and

determining the working bandwidth to be used within the DRX cycle according to the DRX indication information,

wherein the DRX indication information is carried in downlink control information (DCI), the DRX indication information is used to indicate a bandwidth-part allocation index number, the bandwidth-part allocation index number is one of multiple bandwidth-part allocation index numbers, and different bandwidth-part allocation index numbers correspond to different bandwidth-part allocations in multiple types of bandwidth-part allocations;

determining the working bandwidth to be used within the DRX cycle according to the DRX indication information comprises:

determining the working bandwidth to be used within the DRX cycle according to a bandwidth-part allocation corresponding to the bandwidth-part allocation index number, wherein the bandwidth-part allocation is for the terminal device to be used within one DRX cycle.

2. The method of claim 1, further comprising:

receiving first allocation information, the first allocation information comprising at least one of following corresponding relationships:

a corresponding relationship between a time-frequency resource for carrying the DRX indication information and the bandwidth-part allocation index number indicated by the DRX indication information,

a corresponding relationship between an orthogonal sequence used to generate the DRX indication information and the bandwidth-part allocation index number indicated by the DRX indication information,

a corresponding relationship between a cyclic shift adopted for the orthogonal sequence used to generate the DRX indication information and the bandwidth-part allocation index number indicated by the DRX indication information,

or

a corresponding relationship between indication states of multiple pieces of DRX indication sub information used to form the DRX indication information and the bandwidth-part allocation index number indicated by the DRX indication information, wherein

before determining the working bandwidth to be used within the DRX cycle according to the bandwidth-part allocation corresponding to the bandwidth-part allocation index number, the method further comprises:

determining the bandwidth-part allocation index number indicated by the DRX indication information according to the first allocation information.

3. The method of claim 1 or 2, wherein each bandwidth-part allocation is configured to indicate a quantity of a bandwidth part, and quantities of bandwidth parts, indicated by different bandwidth-part allocations, are different; or,

each bandwidth-part allocation is configured to indicate a bandwidth size of a bandwidth part, and the bandwidth size of the bandwidth part, indicated by each bandwidth-part allocation, is different.

4. The method of claim 1, further comprising:

receiving second allocation information, the second allocation information comprising at least one of following corresponding relationships:

a corresponding relationship between a time-frequency resource for carrying the DRX indication information and a bandwidth part,

a corresponding relationship between an orthogonal sequence used to generate the DRX indication information and the bandwidth part,

a corresponding relationship between a cyclic shift adopted for the orthogonal sequence used to generate the DRX indication information and the bandwidth part, or

a corresponding relationship between indication states of multiple pieces of DRX indication sub information used to form the DRX indication information and the bandwidth part, wherein

determining the working bandwidth to be used within the DRX cycle according to the DRX indication information comprises:

determining the working bandwidth to be used within the DRX cycle according to the DRX indication information and the second allocation information.

5. The method of any one of claims 1-3, further comprising:
receiving third allocation information, the third allocation information being used to indicate a bandwidth-part allocation corresponding to each bandwidth-part allocation index number.
6. The method of claim 5, wherein the third allocation information is further configured to indicate a bandwidth of each bandwidth part.
7. The method of any one of claims 1-6, wherein the DRX indication information is carried in the DCI on a Physical Downlink Control Channel.
8. A terminal device, comprising:
a transceiver module, configured to receive Discontinuous Reception (DRX) indication information, the DRX indication information being used for the terminal device to determine a working bandwidth to be used within a DRX cycle; and
a processing module, configured to determine the working bandwidth to be used within the DRX cycle according to the DRX indication information,
wherein the DRX indication information is carried in downlink control information(DCI), the DRX indication information is used to indicate a bandwidth-part allocation index number, the bandwidth-part allocation index number is one of multiple bandwidth-part allocation index numbers, and different bandwidth-part allocation index numbers correspond to different bandwidth-part allocations in multiple types of bandwidth-part allocations;
the processing module is configured to:
determine the working bandwidth to be used within the DRX cycle according to a bandwidth-part allocation corresponding to the bandwidth-part allocation index number, wherein the bandwidth-part allocation is for the terminal device to be used within one DRX cycle.
9. The terminal device of claim 8, wherein the transceiver module is further configured to:
receive first allocation information, the first allocation information comprising at least one of following corresponding relationships:

a corresponding relationship between a time-frequency resource carrying the DRX indication information and the bandwidth-part allocation index number indicated by the DRX indication information,

a corresponding relationship between an orthogonal sequence used to generate the DRX indication information and the bandwidth-part allocation index number indicated by the DRX indication information,

a corresponding relationship between a cyclic shift adopted for the orthogonal sequence used to generate the DRX indication information and the bandwidth-part allocation index number indicated by the DRX indication information, or

a corresponding relationship between indication states of multiple pieces of DRX indication sub information used to form the DRX indication information and the bandwidth-part allocation index number indicated by the DRX indication information;

before the working bandwidth to be used within the DRX cycle is determined according to the bandwidth-part allocation corresponding to the bandwidth-part allocation index number, the processing module is further configured to:

determine the bandwidth-part allocation index number indicated by the DRX indication information according to the first allocation information.

10. The terminal device of claim 8 or 9, wherein

each bandwidth-part allocation is configured to indicate a quantity of a bandwidth part, and quantities of bandwidth parts, indicated by different bandwidth-part allocations, are different; or,

each bandwidth-part allocation is configured to indicate a bandwidth size of a bandwidth part, and the bandwidth size of the bandwidth part, indicated by each bandwidth-part allocation, is different.

11. The terminal device of claim 8, wherein the transceiver module is further configured to:

receive second allocation information, the second allocation information comprising at least one of following corresponding relationships:

a corresponding relationship between a time-frequency resource for carrying the DRX indication information and a bandwidth part,

a corresponding relationship between an orthogonal sequence used to generate the DRX indication information and the bandwidth part,

a corresponding relationship between a cyclic shift adopted for the orthogonal sequence used to generate the DRX indication information and the bandwidth part, or

a corresponding relationship between indication states of multiple pieces of DRX indication sub information used to form the DRX indication information and the bandwidth part;

the processing module is configured to:

determine the working bandwidth to be used within the DRX cycle according to the DRX indication information and the second allocation information.

12. The terminal device of any one of claims 8-10, wherein the transceiver module is further configured to:

receive third allocation information, the third allocation information being used to indicate a bandwidth-part allocation corresponding to each bandwidth-part allocation index number.

13. The terminal device of claim 12, wherein the third allocation information is further configured to indicate a bandwidth of each bandwidth part.

14. A bandwidth allocation method, comprising:

determining Discontinuous Reception (DRX) indication information, the DRX indication information being used for a terminal device to determine a working bandwidth to be used within a DRX cycle; and

transmitting the DRX indication information to the terminal device,

wherein the DRX indication information is carried in downlink control information (DCI), the DRX indication information is used to indicate a bandwidth-part allocation index number, the bandwidth-part allocation index number is one of multiple bandwidth-part allocation index numbers, and different bandwidth-part allocation index numbers correspond to different bandwidth-part allocations in multiple types of bandwidth-part allocations,

wherein the working bandwidth to be used by the terminal device within the DRX cycle is to be determined according to a bandwidth-part allocation corresponding

to the bandwidth-part allocation index number, wherein the bandwidth-part allocation is determined by the network device for the terminal device to be used within one DRX cycle.

15. The method of claim 14, wherein each bandwidth-part allocation is configured to indicate a quantity of a bandwidth part, and quantities of bandwidth parts, indicated by different bandwidth-part allocations, are different; or,

each bandwidth-part allocation is configured to indicate a bandwidth size of a bandwidth part, and the bandwidth size of the bandwidth part, indicated by each bandwidth-part allocation, is different.

16. A network device, comprising:

a processing module, configured to determine Discontinuous Reception (DRX) indication information, the DRX indication information being used for a terminal device to determine a working bandwidth to be used within a DRX cycle; and

a transceiver module, configured to transmit the DRX indication information to the terminal device,

wherein the DRX indication information is carried in downlink control information(DCI), the DRX indication information is used to indicate a bandwidth-part allocation index number, the bandwidth-part allocation index number is one of multiple bandwidth-part allocation index numbers, and different bandwidth-part allocation index numbers correspond to different bandwidth-part allocations in multiple types of bandwidth-part allocations,

wherein the working bandwidth to be used by the terminal device within the DRX cycle is to be determined according to a bandwidth-part allocation corresponding to the bandwidth-part allocation index number, wherein the bandwidth-part allocation is determined by the network device for the terminal device to be used within one DRX cycle.

17. The network device of claim 16, wherein the transceiver module is further configured to:

transmit first allocation information to the terminal device, the first allocation information comprising at least one of following corresponding relationships:

a corresponding relationship between a time-frequency resource for

carrying the DRX indication information and the bandwidth-part allocation index number indicated by the DRX indication information,

a corresponding relationship between an orthogonal sequence used to generate the DRX indication information and the bandwidth-part allocation index number indicated by the DRX indication information,

a corresponding relationship between a cyclic shift adopted for the orthogonal sequence used to generate the DRX indication information and the bandwidth-part allocation index number indicated by the DRX indication information,

or

a corresponding relationship between indication states of multiple pieces of DRX indication sub information used to form the DRX indication information and the bandwidth-part allocation index number indicated by the DRX indication information.

18. The network device of claim 16, wherein the transceiver module is further configured to:

transmit second allocation information to the terminal device, the second allocation information comprising at least one of following corresponding relationships:

a corresponding relationship between a time-frequency resource for carrying the DRX indication information and a bandwidth part,

a corresponding relationship between an orthogonal sequence used to generate the DRX indication information and the bandwidth part,

a corresponding relationship between a cyclic shift adopted for the orthogonal sequence used to generate the DRX indication information and the bandwidth part, or

a corresponding relationship between indication states of multiple pieces of DRX indication sub information used to form the DRX indication information and the bandwidth part.

19. The network device of claim 16, wherein the transceiver is further configured to:

transmit third allocation information to the terminal device, the third allocation information being used to indicate a bandwidth-part allocation corresponding to each bandwidth-part allocation index number.

20. The network device of claim 19, wherein the third allocation information is further

configured to indicate a bandwidth of each bandwidth part.