

WHAT IS CLAIMED IS:

1. A data transmission method, comprising:

determining (210) transmission parameters for transmitting a current target transport block, wherein the transmission parameters comprises target Modulation and Coding Scheme MCS, a target Physical Resource Block PRB number, and information about a PRB resource overhead, wherein the PRB number refers to number of allocated PRBs;

determining (220) a target Transport Block Size TBS of the target transport block according to the transmission parameters; and

transmitting (230) the target transport block or receiving the target transport block according to the target TBS;

wherein the information about the PRB resource overhead comprises a target PRB resource overhead of the target transport block, and

the target PRB resource overhead comprises, among all PRBs with the target PRB number, the number of resource elements REs that are not used for transmitting the target transport block, or an average number of REs that are not used for transmitting the target transport block in each PRB;

wherein determining a target Transport Block Size TBS of the target transport block according to the transmission parameters comprises:

determining a resource overhead group corresponding to the target PRB number according to a first mapping relationship and the target PRB number which corresponds to the target MCS, wherein the first mapping relationship represents correspondence between a plurality of PRB numbers and a plurality of groups of resource overheads; and

determining a TBS corresponding to the target PRB resource overhead as the target TBS according to the resource overhead group;

or, wherein determining a target transport block size TBS of the target transport block

according to the transmission parameters comprises:

determining a resource overhead group corresponding to the target PRB number according to a first mapping relationship and the target PRB number which corresponds to the target MCS, wherein the first mapping relationship represents correspondence between a plurality of PRB numbers and a plurality of groups of resource overheads;

determining, among a plurality of resource overheads in the resource overhead group, at least one resource overhead larger than or equal to the target PRB resource overhead; and

determining a TBS corresponding to the minimum resource overhead of the at least one resource overhead as the target TBS.

2. The method according to claim 1, wherein the method is performed by a terminal device, and before determining the transmission parameters used for transmitting the current target transport block, the method further comprises:

receiving, by the terminal device, the transmission parameters sent by a network device.

3. The method according to any one of claims 1 to 2, wherein the method is performed by a network device, and after determining the transmission parameters used for transmitting the current target transport block, the method further comprises:

transmitting, by the network device, the transmission parameters to a terminal device.

4. The method according to any one of claims 1 to 3, wherein the parameters are transmitted in DCI signaling.

5. The method according to any one of claims 1 to 4, wherein the target Modulation and Coding Scheme MCS includes a MCS level or a MCS index.

6. A communication device, comprising:

a determining unit (310) configured to determine transmission parameters for transmitting a current target transport block, wherein the transmission parameters comprises target Modulation and Coding Scheme MCS, a target Physical Resource Block PRB number,

and information about a PRB resource overhead, wherein the PRB number refers to number of allocated PRBs;

the determining unit (310) being further configured to determine a target Transport Block Size TBS of the target transport block according to the transmission parameters; and

a transmission unit (320) configured to transmit the target transport block or receive the target transport block according to the target TBS determined by the determining unit (310);

wherein the information about the PRB resource overhead comprises a target PRB resource overhead of the target transport block, and

the target PRB resource overhead comprises, among all PRBs with the target PRB number, a number of resource elements REs that are not used for transmitting the target transport block, or an average number of REs that are not used for transmitting the target transport block in each PRB;

wherein the determining unit (310) is configured to

determine a resource overhead group corresponding to the target PRB number according to a first mapping relationship and the target PRB number which corresponds to the target MCS, wherein the first mapping relationship represents correspondence between a plurality of PRB numbers and a plurality of groups of resource overheads; and

determine a TBS corresponding to the target PRB resource overhead as the target TBS according to the resource overhead group; or

wherein the determining unit (310) is configured to

determine a resource overhead group corresponding to the target PRB number according to a first mapping relationship and the target PRB number which corresponds to the target MCS, wherein the first mapping relationship represents correspondence between a plurality of PRB numbers and a plurality of groups of resource overheads;

determine, among a plurality of resource overheads in the resource overhead group, at

least one resource overhead larger than or equal to the target PRB resource overhead; and

determine a TBS corresponding to the minimum resource overhead of the at least one resource overhead as the target TBS.

7. The communication device according to claim 6, wherein the communication device is a terminal device, and the transmission unit (320) is further configured to receive the transmission parameters sent by a network device.

8. The communication device according to any one of claims 6 to 7, wherein the communication device is a network device, and the transmission unit (320) is further configured to send the transmission parameters to a terminal device.

9. The communication device according to any one of claims 6 to 8, wherein the parameters are transmitted in DCI signaling.

10. The communication device according to any one of claims 6 to 9, wherein the target Modulation and Coding Scheme MCS includes a MCS level or a MCS index.