

CLAIMS

What is claimed is:

1. An information transmission method, comprising:

receiving, by a first device, a physical layer protocol data unit PPDU from a second device,

5 wherein the PPDU is used for sensing measurement; and

sending, by the first device, first information to the second device, wherein the first information indicates automatic gain control AGC, and the AGC indicates a gain index of the AGC obtained when the PPDU is received.

10 2. The method according to claim 1, wherein a larger gain index of the AGC indicates a larger gain of the first device.

3. The method according to claim 1 or 2, wherein the first information comprises one or more of the following:

gain index information of a low noise amplifier in the AGC, gain index information of a variable gain amplifier in the AGC, AGC saturation information, or AGC jump information.

15 4. The method according to any one of claims 1 to 3, wherein the first information is carried in a sensing measurement report frame or a channel state information CSI frame.

5. The method according to any one of claims 1 to 3, wherein the first information is carried in one or more of the following:

20 a directional multi-gigabit DMG sensing report element, a DMG channel measurement feedback element, or an enhanced directional multi-gigabit EDMG channel measurement feedback element.

6. The method according to claim 5, wherein the first information further comprises one or more of an identifier of a DMG sensing instance, an identifier of a DMG sensing burst, and an identifier of a DMG measurement program, one DMG sensing burst comprises one or more DMG sensing instances, one DMG measurement program comprises one or more DMG sensing bursts, and one DMG sensing instance indicates one time of sensing.

7. An information transmission method, comprising:

sending, by a second device, a physical layer protocol data unit PPDU to a first device, wherein the PPDU is used for sensing measurement; and

30 receiving, by the second device, first information from the first device, wherein the first information indicates automatic gain control AGC, and the AGC indicates a gain index of the AGC obtained when the PPDU is received.

8. The method according to claim 7, wherein a larger gain index of the AGC indicates a larger gain of the first device.

9. The method according to claim 7 or 8, wherein the first information comprises one or more of the following:

gain index information of a low noise amplifier in the AGC, gain index information of a variable gain amplifier in the AGC, AGC saturation information, or AGC jump information.

5 10. The method according to any one of claims 7 to 9, wherein the first information is carried in a sensing measurement report frame or a channel state information CSI frame.

11. The method according to any one of claims 7 to 9, wherein the first information is carried in one or more of the following:

10 a directional multi-gigabit DMG sensing report element, a DMG channel measurement feedback element, or an enhanced directional multi-gigabit EDMG channel measurement feedback element.

12. The method according to claim 11, wherein the first information further comprises one or more of an identifier of a DMG sensing instance, an identifier of a DMG sensing burst, and an identifier of a DMG measurement program, one DMG sensing burst comprises one or more DMG
15 sensing instances, one DMG measurement program comprises one or more DMG sensing bursts, and one DMG sensing instance indicates one time of sensing.

13. The method according to claim 7, further comprising:

processing, by the second device, CSI based on the first information.

14. An information transmission method, comprising:

20 sending, by a first device, first power indication information and second power indication information to a second device, wherein the first power indication information and the second power indication information indicate power of a same physical layer protocol data unit PPDU, and the PPDU is used for sensing measurement, wherein

25 first power indicated by the first power indication information is different from second power indicated by the second power indication information.

15. An information transmission method, comprising:

receiving, by a second device, first power indication information and second power indication information from a first device, wherein the first power indication information and the second power indication information indicate power of a same physical layer protocol data unit PPDU,
30 and the PPDU is used for sensing measurement, wherein

first power indicated by the first power indication information is different from second power indicated by the second power indication information.

16. A communication apparatus, comprising at least one processor, wherein the processor is coupled to a memory;

35 the memory is configured to store a computer program or instructions; and

the processor is configured to execute the computer program or the instructions, to implement the method according to any one of claims 1 to 15,.

5 17. A computer-readable storage medium, wherein the computer-readable storage medium stores a computer program or instructions, and when the instructions are run on a computer, the method according to any one of claims 1 to 15.

18. A computer program product, comprising computer-executable instructions, wherein when the computer-executable instructions are run on a computer, the computer is enabled to perform the method according to any one of claims 1 to 15.

10 19. A chip, comprising at least one processor, wherein the at least one processor is coupled to a memory;

the memory is configured to store a computer program or instructions; and

the at least one processor is configured to execute the computer program or the instructions, to enable a communication apparatus comprising the chip to perform the method according to any one of claims 1 to 15.

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