CLAIMS

1. A user equipment (UE) for wireless communication, comprising:

at least one memory; and

at least one processor coupled with the at least one memory and configured to cause the UE to:

receive a first synchronization signal (SS) in a first frequency band; and

receive a second SS in a second frequency band, wherein

the second SS is associated with a second period and a time offset.

2. The UE of claim 1, wherein,

the first frequency band and the second frequency band are a same frequency band.

3. The UE of claim 1, wherein,

the second period is configured with a scaling factor of a period of the first SS.

4. The UE of claim 1, wherein,

the time offset includes a frame number offset within the second period.

5. The UE of claim 4, wherein,

the time offset further includes an indication of first half frame or second half frame.

6. The UE of claim 1, wherein,

the second SS is transmitted with one of multiple second SS blocks within each second period.

7. The UE of claim 6, wherein,

a second SS block is comprised of one or multiple associated beams and one or more repetitions.

8. The UE of claim 6, wherein,

an interval of a second SS block within each second period is determined

by a higher layer or

by a default value in a unit of half frame or

by a period of the first SS.

9. The UE of claim 1, wherein,

the second SS with a same beam is mapped to one or multiple second SS resources.

10. The UE of claim 1, wherein,

one or more symbol indices of the second SS are determined by one or more symbol indices of the first SS within a half frame.

11. The UE of claim 10, wherein, the at least one processor is further configured to cause the UE to receive an indication of QCL information of the first SS and the second SS.

12. The UE of claim 1, wherein,

a first symbol index of the second SS within a half frame is determined by a carrier of the second SS, subcarrier spacing of the second SS, and a slot offset.

13. The UE of claim 12, wherein,

the slot offset is determined by the subcarrier spacing of the second SS and a total number of first SSs within a half frame, or the slot offset is determined by a period of the first SS, or is configured by a higher layer.

14. The UE of claim 12, wherein,

the slot offset is determined by a second SS frame type indication or a reserved frame indication.

15. The UE of claim 1, wherein,

the second SS includes cell identifier (ID) information.

16. The UE of claim 15, wherein,

the second SS further includes an indication of switching to the first frequency band.

17. The UE of claim 1, wherein,

a transmission power of the second SS is determined by a transmission power of the first SS or a power offset.

18. A method performed by a user equipment (UE), the method comprising:

receiving a first synchronization signal (SS) in a first frequency band; and

receiving a second SS in a second frequency band, wherein

the second SS is associated with a second period and a time offset.

19. A base station for wireless communication, comprising:

at least one memory; and

at least one processor coupled with the at least one memory and configured to cause the base station to:

transmit a first synchronization signal (SS) in a first frequency band; and

transmit a second SS in a second frequency band, wherein

the second SS is associated with a second period and a time offset.

20. A method performed by a user equipment (UE), the method comprising:

transmitting a first synchronization signal (SS) in a first frequency band; and

transmitting a second SS in a second frequency band, wherein the second SS is associated with a second period and a time offset.