CLAIMS

1. A method of wireless communication, the method comprising:

receiving, at a dongle via a radio frequency channel, a first data from a first human interface device at a first time slot of a frame;

transmitting the first data to a computing device coupled to the dongle;

receiving, at the dongle via the radio frequency channel, a second data from a second human interface device at a second time slot of the frame;

transmitting the second data to the computing device; and

transmitting, by the dongle via the radio frequency channel at a third time slot of the frame, ~~at least one of~~ a first acknowledgment to the first data~~,~~ and a first lighting effect configuration data for the first human interface device, a second acknowledgment to the second data~~, or~~ and a second lighting effect configuration data for the second human interface device.

2. The method of claim 1, wherein the first human interface device and the second human interface device are a wireless mouse and a wireless keyboard.

3. The method of claim 2, wherein the first data comprises movement and button status of the wireless mouse.

4. The method of claim 2, wherein the second data comprises keys pressed status of the wireless keyboard.

5. The method of claim 1, wherein the first lighting effect configuration data is used to configure lighting effect of the first human interface device.

6. The method of claim 1, wherein the second lighting effect configuration data is used to configure lighting effect of the second human interface device.

7. The method of claim 1, wherein both the first human interface device and the second human interface device are synchronized to the dongle.

8. The method of claim 1, further comprising:

transmitting, by the dongle at the first time slot, a first beacon to synchronize with the first human interface device; and

transmitting, by the dongle at the second time slot, a second beacon to synchronize with the second human interface device.

9. An apparatus for wireless communication, the apparatus comprising:

a memory; and

at least one processor coupled to the memory and configured to:

receive, via a radio frequency channel, a first data from a first human interface device at a first time slot of a frame;

transmit the first data to a computing device coupled to the apparatus;

receive, via the radio frequency channel, a second data from a second human interface device at a second time slot of the frame;

transmit the second data to the computing device; and

transmit, via the radio frequency channel at a third time slot of the frame, ~~at least one of~~ a first acknowledgment to the first data~~,~~ and a first lighting effect configuration data for the first human interface device, a second acknowledgment to the second data~~, or~~ and a second lighting effect configuration data for the second human interface device.

10. The apparatus of claim 9, wherein the first human interface device and the second human interface device are a wireless mouse and a wireless keyboard.

11. The apparatus of claim 10, wherein the first data comprises movement and button status of the wireless mouse.

12. The apparatus of claim 10, wherein the second data comprises keys pressed status of the wireless keyboard.

13. The apparatus of claim 9, wherein the first lighting effect configuration data is used to configure lighting effect of the first human interface device.

14. The apparatus of claim 9, wherein the second lighting effect configuration data is used to configure lighting effect of the second human interface device.

15. The apparatus of claim 9, wherein both the first human interface device and the second human interface device are synchronized to the apparatus.

16. The apparatus of claim 9, wherein the at least one processor is further configured to:

transmit, at the first time slot, a first beacon to synchronize with the first human interface device; and

transmit, at the second time slot, a second beacon to synchronize with the second human interface device.

17. A non-transitory computer-readable medium storing computer executable code, comprising instructions for:

receiving, at a dongle via a radio frequency channel, a first data from a first human interface device at a first time slot of a frame;

transmitting the first data to a computing device coupled to the dongle;

receiving, at the dongle via the radio frequency channel, a second data from a second human interface device at a second time slot of the frame;

transmitting the second data to the computing device; and

transmitting, by the dongle via the radio frequency channel at a third time slot of the frame, ~~at least one of~~ a first acknowledgment to the first data~~,~~ and a first lighting effect configuration data for the first human interface device, a second acknowledgment to the second data~~, or~~ and a second lighting effect configuration data for the second human interface device.

18. The non- transitory computer-readable medium of claim 17, wherein the first human interface device and the second human interface device are a wireless mouse and a wireless keyboard.

19. The non-transitory computer-readable medium of claim 18, wherein the first data comprises movement and button status of the wireless mouse, wherein the second data comprises keys pressed status of the wireless keyboard.

20. The non-transitory computer-readable medium of claim 17, wherein the first lighting effect configuration data is used to configure lighting effect of the first human interface device, wherein the second lighting effect configuration data is used to configure lighting effect of the second human interface device.