CLAIMS

1. A device comprising: a first printed circuit board (PCB), a second printed circuit board (PCB), and a third printed circuit board (PCB); a first integrated device coupled to the first PCB, wherein the first integrated device comprises a footprint of 120 square millimeters (mm) or less; a speaker coupled to the first integrated device; a microphone coupled to the first integrated device; a power source configured to provide power to the first integrated device, the speaker and the microphone, wherein the first PCB and the second PCB are positioned along a length of the power source and the third PCB is positioned over a top of the power source; and a flex board coupled to the first PCB, the flex board at least partially wrapped around the power source; wherein the device has a length of about 2.4 centimeter (cm) or less, and a diameter of about 1.2 centimeter (cm) or less, wherein the first PCB is coupled to a first portion of the flex board, the second PCB is coupled to a second portion of the flex board, and the third PCB is coupled to a third portion of the flex board.

2. The device of claim 1, wherein the first integrated device includes a low power processor that is configured to use about 5-2000 micro-Watts of power.

3. The device of claim 1, further comprising a second integrated device configured to provide wireless communication.

4. The device of claim 1, further comprising a second integrated device configured to provide compression/decompression (CODEC) functionality.

5. The device of claim 1, further comprising: a wireless charging coil; and a wireless charging circuit coupled to the wireless charging coil, wherein the wireless charging coil and the wireless charging circuit are configured to enable wireless charging of the power source.

6. The device of claim 1, further comprising a memory device.

7. The device of claim 1, wherein each of the first PCB, the second PCB, and the third PCB is a rigid printed circuit board.

8. The device of claim 1, further comprising a second integrated device configured to provide power management functionality.

9. The device of claim 1, further comprising a second integrated device configured to provide magnetic near field communication (NFC).

10. A device comprising: a first printed circuit board (PCB), a second printed circuit board (PCB), and a third printed circuit board (PCB); a first integrated device coupled to the first PCB, wherein the first integrated device comprises a footprint of 120 square millimeters (mm) or less; a speaker coupled to the first integrated device; a microphone coupled to the first integrated

device; a second integrated device configured to provide wireless communication; a third integrated device configured to provide compression/decompression (CODEC) functionality, the second integrated device and the third integrated device coupled to the second PCB; a power source configured to provide power to the first integrated device, the second integrated device, the third integrated device, the speaker and the microphone, wherein the first PCB and the second PCB are positioned along a length of the power source and the third PCB is positioned over a top of the power source; and a flex board coupled to the first PCB and the second PCB, the flex board at least partially wrapped around the power source; wherein the device has a length of about 2.4 centimeter (cm) or less, and a diameter of about 1.2 centimeter (cm) or less, wherein the first PCB is coupled to a first portion of the flex board, the second PCB is coupled to a second portion of the flex board, and the third PCB is coupled to a third portion of the flex board.

11. An apparatus comprising: a first printed circuit board (PCB), a second printed circuit board (PCB), and a third printed circuit board (PCB); a first integrated device coupled to the first PCB, wherein the first integrated device comprises a footprint of 120 square millimeters (mm) or less; means for generating a sound wave, the means for generating the sound wave coupled to the first integrated device; means for detecting a sound wave, the means for detecting the sound wave coupled to the first integrated device; means for providing power to the first integrated device, the means for generating the sound wave and the means for detecting the sound wave, wherein the first PCB and the second PCB are positioned along a length of the power source and the third PCB is positioned over a top of the means for providing power; and a flex board coupled to the first PCB, the flex board at least partially wrapped around the means for providing power; wherein the apparatus has a length of about 2.4 centimeter (cm) or less, and a diameter of about 1.2 centimeter (cm) or less, wherein the first PCB is coupled to a first portion of the flex board, the second PCB is coupled to a second portion of the flex board, and the third PCB is coupled to a third portion of the flex board.

12. The apparatus of claim 11, wherein the first integrated device includes a low power processor that is configured to use about 5-2000 micro-Watts of power, wherein the first integrated device includes dimensions of 5 millimeters (mm) x 5 millimeters (mm) x 0.4 millimeters (mm), or less.

13. The apparatus of claim 11, further comprising means for providing wireless communication.

14. The apparatus of claim 13, wherein the means for providing wireless communication includes an integrated device that is configured to provide Bluetooth wireless communication.

15. The apparatus of claim 11, further comprising means for providing compression/decompression (CODEC) functionality.

16. The apparatus of claim 11, further comprising means for wireless charging of the power source.

17. The apparatus of claim 11, further comprising means for storing data.

18. The apparatus of claim 11, wherein the first PCB is a rigid printed circuit board.

19. The apparatus of claim 11, further comprising means for providing power management functionality.

20. The apparatus of claim 11, further comprising means for providing magnetic near field communication (NFC).