**Environmental Sensors**

- **Motion Sensor**
  - An embedded motion sensor detects near field motion and provides user control.

- **Light Sensor**
  - Ambient light levels are read in from the surrounding environment and used as input for song selection.

**The Board**

*Image of a circuit board with labeled components*

- **Central Processing Unit** (NXP LPC2478)
  - The microprocessor reads in sensor data, handles data transmission, and carries out user instructions.

**Non-Volatile Memory**

- **SDRAM**
  - The SDRAM buffers data between all of the different circuit components, providing quick access to the musical library.

- **SD Card**
  - Data stored locally on an SD Card provides the source files for the music decoder chip.

**LCD Display**

- **NewHaven NHD-320240MF**
  - A 3.5" LCD panel provides readable data about the current status of the device, as well as information about the current music being played.

**Music Decoder**

- **VLSI VS1011**
  - The VS1011 uses a wide variety of industry standards for decoding multiple audio file formats.

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**What is Mu.S.E.?**

Mu.S.E. is your musical companion for the modern era. Through dynamic use of environment sensing peripherals, track choice is automated based on lighting conditions and time of day. By simply swiping your hand in front of the device, Mu.S.E. will automatically select and play the perfect playlist to stimulate your environment. Whether you’re preparing for your day, having a get-together with friends, or simply unwinding after a long day at work, Mu.S.E. sets the tone for any occasion.

**The Team**

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