Overview

TrackMate is a GPS enabled MP3 player that allows athletes to track their speed and distance while listening to their favorite music. TrackMate has an easy and intuitive touch screen interface, a standard 3.5mm audio output jack and an SD card for storing audio files.

Processor
A 72 MHz processor used to operate all peripherals on the board.

GPS
Outputs latitude and longitude to the processor to determine the distance traveled as well as approximate ground speed.

SD Card Reader
Transfers audio data stored on the SD card to the processor to distribute to the audio decoder and LCD.

SDRAM
Can store up to 128 Mb of data that will be used to send audio files to the audio decoder through the processor.

Audio Decoder
Used for decoding MP3 audio files for playback through the audio output jack.

LCD Display
Used to display the user interface, GPS data and an interface for audio control.