

Solar GPS Data Logger



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Solar GPS Logger

HPMicrosystems



Technical Specifications

Handheld embedded device
Solar Powered and battery backed operation
SD CARD for storing information (up to 32GB support)
Option to save data in NMEA format as well other formats like CSV& Google maps compatible KML format
LED indicators for power (indicating solar / battery mode)
SD card read/write or insert error
GPS Fix indicator using led or buzzer
LCD to display LAT, LONG, ALT, GPS FIX, POWER MODE, FILE SAVED IN SD CARD

Abstract

Lot of activity / programs of Govt. of Odisha now require to capture and Store GPS locations and GPS Area survey information. For this it was suggested to develop custom hardware and software which matches with their requirements.

Technical Objective

The purpose of this project was to develop suitable embedded system where in GPS data can be collected onsite in remote locations in handheld devices and data stored to flash memory. After the capturing of data on flash cards from site, the same could be transferred to server of client and a separate web application was to be provided to analyse and report the results with option to publish on Govt. of Odisha Website.