

G-Force Recorder



Hardware specification for G-Force Recorder:

1. Power input +7 Volt to +37VDC
2. On board back-up battery 5V 0.33F Super cap).
3. SD card slot for data backup (up to 2GB)
4. 4 LED indicators on two RJ45 connectors
5. On board real-time clock
6. Serial input for GPS signal (9600 Baud rate) on RJ45
7. Serial I/O port for external communication (9600 Baud rate) on RJ45
8. G-force sensor with selectable sensitivity for 3 axes (+-1.5g/+6g)
9. 6-LED G-force strength display with buzzer (optional) on RJ45
10. One internal GPS module (optional)

Firmware

G-force detection & recording:

1. 3 axes G-force detection and record
2. Recording interval:
 - Normal: 1 sec (configurable). Range: 0.1~ 25.4 sec.
 - Emergent: .1 sec (Max)

GPS (built-in or external) recorder:

1. Recording interval:
 - 5 sec (configurable). Range: 1~600 sec.

Alarm to the driver

1. LED: G-force strength displaying
2. Buzzer: activate by abnormal G-force

R9 coordination

1. Save GPS data from R9
2. Configuration by commands from R9
3. Send recorded data to R9 for real time monitoring via GSM (SMS/GPRS).

Anti-fake for logs

1. Checksums for logs. Not impossible, but difficult enough to fake the logs.

Supported storage:

1. Micro SD. Max 2GB.
2. FAT16/32 supported.

Setup tool:

1. Calibration on installation
2. Configure thresholds of G-values, for 3 axes.
3. Configure recording interval for GPS and G-force