

Integrated Modular Avionics – Individual Work – Data description

Dataset: 2022-05-13_CarData.mat

Sampling frequency - IMU - 100 Hz

Sampling frequency - GNSS - 10 Hz

Initial heading: 177deg.

Data structure:

Inertial data:

RawIMU.SF:

01 - accelerometer data X – (g) – longitudinal

02 - accelerometer data Y – (g) – lateral

03 - accelerometer data Z – (g) – vertical

RawIMU.W:

01 - gyroscope data X – (rad) - longitudinal

02 - gyroscope data Y – (rad) – lateral

03 - gyroscope data Z – (rad) – vertical

RawGNSS.LLA:

01 - Latitude – (°)

02 - Longitude – (°)

03 - Altitude – (m)

RawGNSS.VEL:

01 – GNSS Velocity X (ECEF) (m/s)

02 – GNSS Velocity Y (ECEF) (m/s)

03 – GNSS Velocity Z (ECEF) (m/s)