

IMU

Simulate accelerometer, gyroscope, and magnetometer sensors.

The block outputs sensor measurements based on device motion. The inputs are in the local navigation frame. The outputs are in the local sensor body frame. The parameters on the Accelerometer, Gyroscope and Magnetometer tabs can be set to match values on a sensor datasheet.

Parameters

Accelerometer

Gyroscope

Magnetometer

Reference frame:

NED

▼

Environment

☐ Specify temperature from input port

Temperature (°C):

25

⋮

☐ Specify magnetic field from input port

Magnetic field (NED):

[ 27.5550, -2.4169, -16.0849 ]

[27.555,-2.4169,-16.085]

⋮

Randomization

Seed:

67

⋮

Simulate using:

Code generation

▼

OK

Cancel

Help

Apply