

GPS_NAVFILTER [[edit](#)]

Defines for the GPS receiver (for auto-configuration, see [GPS_AUTO_CONFIG](#)) the dynamic model of the moving system (Dynamic Platform Model) that the GPS receiver should use in position calculations. Applicable for uBlox chips.

Values:

- **0: Portable** - Portable devices - Moving systems with low acceleration. Suitable for most cases. Type of data adequacy check: Height and Speed. Expected Position Change: Medium. Boundary Parameters:
 - maximum height - 12000 m
 - maximum speed - 310 m / s
 - maximum vertical speed - 50 m / s
- **2: Stationary** - Systems in which there is zero movement dynamics and there is practically no movement. Type of data adequacy check: Height and Speed. Expected Position Change: Small. Boundary Parameters:
 - maximum height - 9000 m
 - maximum speed of movement - 10 m / s
 - maximum vertical speed - 6 m / s
- **3: Pedestrian** - Pedestrian - Moving systems with low acceleration and speed. Type of data adequacy check: Height and Speed. Expected Position Change: Small. Boundary Parameters:
 - maximum height - 9000 m
 - maximum speed of movement - 30 m / s
 - maximum vertical speed - 20 m / s
- **4: Automotive** - Car - Recommended for moving systems like a passenger car with low vertical accelerations. Type of data adequacy check: Height and Speed. Expected Position Change: Medium. Boundary Parameters:
 - maximum height - 6000 m
 - maximum speed - 84 m / s
 - maximum vertical speed - 15 m / s
- **5: Sea** - Ship - Recommended for ships with little to no vertical speed and a position height near sea level. Type of data adequacy check: Height and Speed. Expected Position Change: Medium. Boundary Parameters:
 - maximum height - 500 m
 - maximum speed of movement - 25 m / s
 - maximum vertical speed - 5 m / s
- **6: Airborne1G** - Aircraft 1G - Recommended for moving systems with a dynamic range of vertical movements greater than that of a passenger

car. 2D fixation is not accepted as sufficient. Type of data adequacy check: Height. Expected position change: large. Boundary Parameters:

- maximum height - 50,000 m
- maximum travel speed - 100 m / s
- maximum vertical speed - 100 m / s

• 7: **Airborne2G** - 2G Aircraft - Recommended for typical aircraft. 2D fixation is not accepted as sufficient. Type of data adequacy check: Height. Expected position change: large. Boundary Parameters:

- maximum height - 50,000 m
- maximum speed - 250 m / s
- maximum vertical speed - 100 m / s

• 8: **Airborne4G** - 4G Aircraft - Recommended only for extremely dynamic systems. 2D fixation is not accepted as sufficient. Type of data adequacy check: Height. Expected position change: large. Boundary Parameters:

- maximum height - 50,000 m
- maximum speed - 500 m / s
- maximum vertical speed - 100 m / s