



PRODUCT COMPARISON

The best gets even better: upgrading from a GX5 to GV7

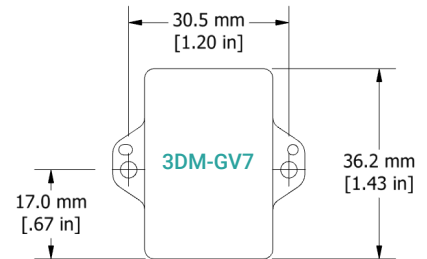
Our GX5 series inertial sensors have long set the standard for inertial performance. Now, we've launched the GV7 series. Take a look at how the two sensor families compare, and what benefits you can expect from upgrading from a GX5 to a GV7.

Improved performance. More functionality. Same size.

EASILY REPLACE A GX5 WITH A GV7

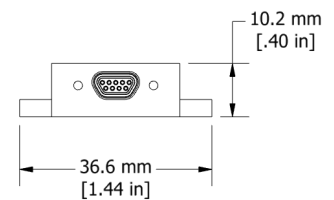
We worked hard to ensure that swapping a GX5 with a GV7 is a simple, straightforward task. The GV7 shares the same footprint and precision mounting holes as the GX5 family of sensors.

We also know how important size, weight, and power are in modern applications. That's why we made sure that the GV7 delivers the industry-leading performance we've always been known for, while ensuring it is as small, light, and efficient as possible.



Specification	3DM-GV7	3DM-GX5
Size	36.2mm x 36.6 mm x 10.2 mm	36.0 mm x 36.6 mm x 11.1 mm
Weight	17.7g	16.5g
Power Consumption	320 mW (typical)	500 mW (typical)

* all comparisons are made using a 3DM-GX5-AHRS versus a 3DM-GV7-AHRS



SPECIFICATION COMPARISONS

The GV7 series represents a significant advancement over its predecessor, the GX5 series. Nearly every performance metric has been enhanced, delivering a more accurate, reliable, and efficient inertial sensing solution. From environmental protection to user-adjustable accelerometer and gyroscope ranges, the GV7 series sets a new standard for reliability, flexibility, and precision in inertial sensing applications.

Specification	3DM-GV7	3DM-GX5
Environmental Protection	IP68	Not rated
MTBF	2,058,917 hours	557,280 hours
GPIO	2x GPIO: Event triggering, PPS Input/Output	Limited
Kalman Filter	7th Generation Auto-Adaptive Extended Kalman Filter	5th Generation Extended Kalman Filter
Output Data Rate (IMU and EKF)	1 to 1000 Hz	1 to 500 Hz
Accelerometer Range	User-adjustable: $\pm 4g$, $8g$, $16g$	Fixed
Gyroscope Range	User-adjustable: ± 250 $^{\circ}/s$, 500 $^{\circ}/s$, 1000 $^{\circ}/s$	Fixed



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microstrain.com/inertial-sensors/gv7-series