

STMicroelectronics LSM333D 4x4mm 9-Axis IMU Reverse Costing Analysis

Description: System Plus Consulting is proud to publish the reverse costing report of the new 9-DOF IMU supplied by STMicroelectronics.

The LSM333D is a 4x4mm system-in-package featuring a 3-axis gyroscope, a 3-axis accelerometer and a 3-axis magnetometer.

ST achieves to obtain this package footprint by combining the 3-axis gyroscope and the 3-axis accelerometer function on the same die. This new structure, combined with an Au-Au hermetic bonding process allow ST's to shrink the 6-axis function by more than 35%.

The LSM333D is targeted for portable applications: indoor navigation, smart user interface, advanced gesture recognition, gaming and virtual reality input device. It provides accurate output across full-scale ranges up to ± 2000 dps (rotational acceleration), ± 16 g (linear acceleration) and ± 12 Gauss (magnetic field).

This report provides complete teardown of the 9-Axis IMU with:

- Detailed photos
- Material analysis
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