

# InvenSense MP67B

## 6-Axis MEMS IMU in iPhone 6 & 6 Plus

*InvenSense's first design win in Apple iPhone*

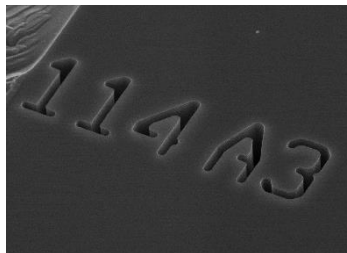
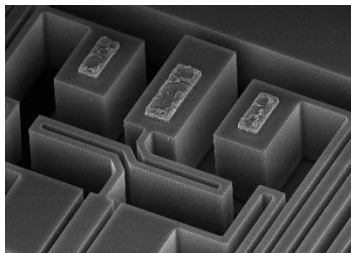
*InvenSense's Second Generation 6-Axis Devices for Consumer Applications*

With 74.5 million units of iPhone sold during the last quarter 2014, InvenSense made a very good deal by replacing STMicroelectronics as the supplier of the gyroscope for the iPhone 6 and 6 Plus.

The MP67B is a custom version of InvenSense 6-Axis device (3-Axis gyroscope + 3-Axis accelerometer) made for Apple. Compared to InvenSense's standard 6-Axis device MPU-6500, specific modifications have been realized. The main ones consist in the package modification with the use of a LGA substrate compared to a QFN leadframe, and in the ASIC which has been redesigned.

The MP67B uses a different design than InvenSense's first generation 6-axis device with a new design of the 3-axis gyroscope which now uses a single structure vibratory compared to three different structures for the previous generation of gyros. This new design results in a shrink of 40% of the 3-axis gyro area. The second benefit of this new design is that Nasiri process has been changed: cavities which were traditionally etched in the ASIC to allow MEMS structures moving are no longer used, thus resulting in cost reduction.

The report includes a complete comparison with InvenSense standard 6-Axis (MPU-6500) and with InvenSense first generation 6-Axis device.



REVERSE COSTING ANALYSIS

REPORT BY 

MEMS 6-Axis IMU

109 pages

February 2015

Pdf file

Xls file

**PRICE :**

Full report: EUR 2,990

Technology report: EUR 1,990

COMPLETE TEARDOWN WITH:

- Detailed Photos
- Precise Measurements
- Material Analysis
- Manufacturing Process Flow
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# ORDER FORM

Please process my order for "InvenSense MP67B MEMS 6-Axis IMU" Reverse Costing Analysis:

Ref.: SP15204

Full Reverse Costing report: EUR 2,990\*

Technology Analysis\*\* report: EUR 1,990

\*For price in dollars please use the day's exchange rate

\*All reports are delivered electronically in pdf format

\*For French customer, add 20 % for VAT

\*\* Technology Analysis report contains only Physical Analysis & Manufacturing Process Flow

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MAIL: SYSTEM PLUS CONSULTING

21 rue La Nouë Bras de Fer

44200 Nantes – France

Contact:

E-mail: sales@systemplus.fr, Tel: +33 (0)240 18 09 16

## BILLING CONTACT

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Our prices are subject to change.

Please check our new releases and price changes on [www.systemplus.fr](http://www.systemplus.fr)

The present document is valid 6 months after its publishing date: February 3<sup>rd</sup>, 2015.

## ABOUT SYSTEM PLUS CONSULTING

System Plus Consulting specializes in the **cost analysis** of electronics, from **semiconductor devices** to **electronic systems**, and has developed a complete range of services and costing tools to provide **in-depth production cost studies** and to estimate the **objective selling price** of a product.

### COSTING SERVICES

- ✓ **On demand Reverse Costing studies** are performed on ICs, ASICs, MEMs, Power Devices, ECUs, electronic boards and full electronic systems.
- ✓ **The catalog of available reports** includes cost analyzes on MEMS, LEDs, Modules and Electronic systems.

All these analyses are performed using in-house developed, proprietary costing tools and their technological databases.

### COSTING TOOLS

#### « Purchaser » tools

- ✓ IC Price+ to estimate the cost of any integrated circuit
- ✓ Power Price+ for any power component or module

- ✓ PCB Price+ for printed circuit boards
- ✓ SYS.Cost+ for electronic boards and systems

#### Cost Simulation Tools, process flow based

- ✓ MEMS CoSim+
- ✓ LED CoSim+
- ✓ Power CoSim+
- ✓ TSV CoSim+ (thru silicon vias)
- ✓ Sapphire CoSim+

Other costing models can be developed according to customer specifications

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# TERMS AND CONDITIONS OF SALES

## 1. INTRODUCTION

The present terms and conditions apply to the offers, sales and deliveries of services managed by System Plus Consulting except in the case of a particular written agreement.

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System Plus Consulting may change its prices whenever the company thinks it necessary. However, the company commits itself in invoicing at the prices in force on the date the order is placed.

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The quoted prices already include the rebates and discounts that System Plus Consulting could have granted according to the number of orders placed by the Buyer, or other specific conditions. No discount is granted in case of early payment.

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System Plus Consulting delivered services are to be paid within 30 days end of month by bank transfer except in the case of a particular written agreement.

If the payment does not reach System Plus Consulting on the deadline, the Buyer has to pay System Plus Consulting a penalty for late payment the amount of which is three times the legal interest rate. The legal interest rate is the current one on the delivery date. This penalty is worked out on the unpaid invoice amount, starting from the invoice deadline. This penalty is sent without previous notice.

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The Buyer is responsible for the use and interpretations he makes of the reports delivered by System Plus Consulting. Consequently, System Plus Consulting responsibility can in no case be called into question for any direct or indirect damage, financial or otherwise, that may result from the use of the results of our analysis or results obtained using one of our costing tools.

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Any dispute that may arise about the interpretation or execution of the current terms and conditions shall be resolved applying the French law.

If the dispute cannot be settled out-of-court, the competent Court will be the Tribunal de Commerce de Nantes.