

Bosch Sensortec BME280

Integrated Environmental Sensor

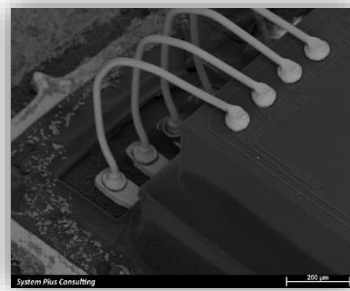
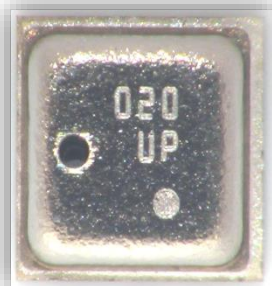
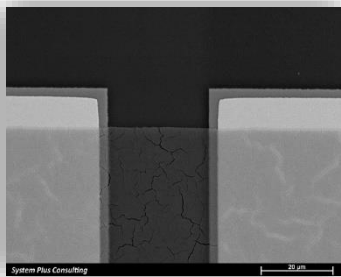
High performances pressure and humidity sensor based on Bosch APSM process and innovative measurement technology in a single compact package

Bosch BME280 environmental sensor is the evolution of BMP280 pressure sensor. Assembled in a 8-pins LGA 2.5 x 2.5 x 0.93mm package, the BME280 is a digital humidity, pressure and temperature sensor equipped with two MEMS dies and an amplification ASIC. It is designed by CMOS process and it has operating ranges of -40...+85°C, 0...100 % relative humidity and 300...1100 hPa.

The MEMS pressure sensor is manufactured with Bosch APSM process with the flexible pressure membrane and temperature diodes on Si substrate. The relative humidity sensors presents an innovative measurement technology which allows a very fast and precise response in very compact size.

This device represents a new type of combo sensor for mobile phones: its open package is a quite new features respect to close packaged combos. In the report it is performed a exhaustive package analysis.

The report presents deep technological and cost analysis of BME280 and a technical comparison with BMP280 MEMS and ASIC and with Sensirion SHTC1 humidity MEMS.



REVERSE COSTING ANALYSIS
REPORT BY **SYSTEMPlus**
CONSULTING

MEMS Environmental Sensor
122 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
- Supply Chain Evaluation
- Manufacturing Cost Analysis
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- BME280 Vs Sensirion SHTC1

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Estimated Price Analysis

ORDER FORM

Please process my order for "Bosch BME280 Environmental Sensor" Reverse Costing Analysis

Ref.: SP15205

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

SHIP TO

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MAIL: SYSTEM PLUS CONSULTING
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Contact:

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BILLING CONTACT

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Email:

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Our prices are subject to change.

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The present document is valid 6 months after its publishing date: February 23th, 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
- ✓ SYS.Cost
- ✓ PCB Price+ for printed circuit boards
- for electronic boards and systems

Cost Simulation Tools, process flow based

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

Other costing models can be developed according to customer specifications

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1. INTRODUCTION

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Buyer must note that placing an order means an agreement without any restriction with these terms and conditions.

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