

STMicroelectronics – STP16N65M5 650V 7.3A MDmesh 5 MOSFET

Reverse Costing Analysis by System Plus Consulting – July 2011

Physical Analysis of the Device

Step by Step Reconstruction of the Process Flow Cost of Manufacturing & Estimation of Selling Price

System Plus Consulting is pleased to publish a reverse costing report on the STP16N65M5 silicon power transistor. This MOSFET uses the new MDmesh V super-junction structure from STMicroelectronics. This 650V MOSFET offers a lower $R_{DS(ON)}$ than the theoretical limit of silicon and enables a reduction in power consumption.

Based on a complete teardown process, the report provides an estimation of the production cost as well as the objective selling price of the STP16N65M5.

This reverse costing report contains:

- Detailed photos
- Material analysis
- Manufacturing process flow
- In-depth economical analysis
- Manufacturing cost breakdown
- Selling price estimation

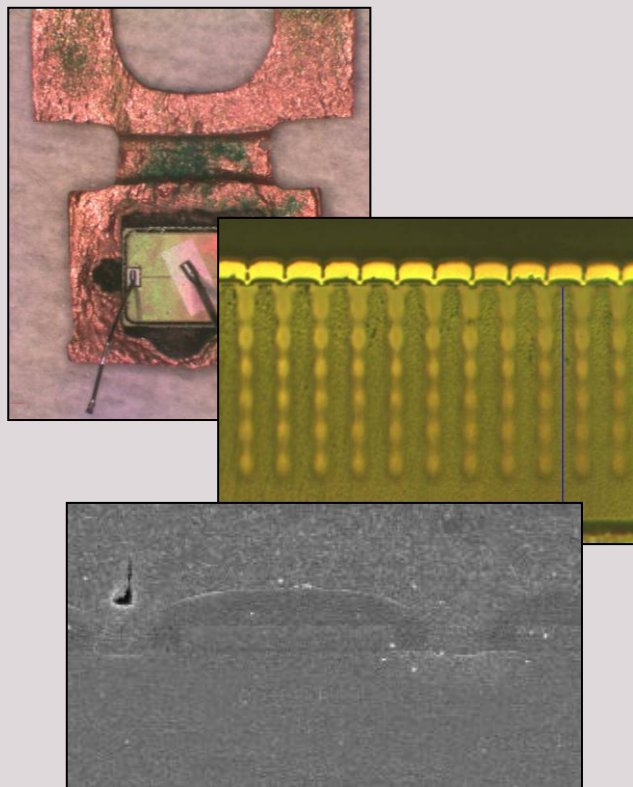


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ABOUT SYSTEM PLUS CONSULTING

System Plus Consulting is specialized in the **cost analysis** of electronics from **semiconductor devices** to **electronic systems**.
Around this main line System Plus Consulting developed a complete range of services and costing tools to provide **in-depth production cost studies** and estimation of the **objective selling price** of the product.

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- ✓ **The catalog of available reports** includes cost analyzes on MEMS, Electronic components and Electronic systems (Telecom terminals, Power systems, Consumer products)

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