



Tesla Model 3 Driver Assist Autopilot 2.5 Control Module Unit

Complete analysis of the module, which integrates Nvidia for the GPUs and Intel for the processor.



For several years, Tesla has been working to make cars more and more autonomous in order to reduce accidents and provide optimum driver assistance.

Hynix for the memory; and STMicroelectronics for the audio amplifiers.



Semi-autonomous cars use lots of sensors to approximate autonomous driving, like cameras, radar, lidar, and ultrasonic sensors in order to explore the environment around the car. All of this sensor-derived information must be grouped, and this is where the control unit comes into play. It is essential in order to be able to analyze the data received, and to reach the conditional autonomy offered at level 3.

Our report, which is based on a complete teardown analysis of the Tesla Model 3 Driver-Assist Autopilot Control Module Unit, provides the BoM and manufacturing cost of the control unit. The report also includes a physical analysis of the main ICs (i.e. Nvidia, Intel, Infineon), along with a complete cost analysis and an estimated sales price.

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EUR 3,990

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For the technical solution of its system, Tesla has integrated complete modules from different manufacturers such as Telit, uBlox, and LG Innotek, which are associated with high-performance ICs from Nvidia for the GPU (represents an important part of the final product); Intel for the processor; NXP (Freescale) and Infineon for the microcontrollers; Micron Technology, Samsung, and SK

COMPLETE TEARDOWN WITH

- Detailed photos
- Block diagram
- PCB cross-section and cost estimate
- Estimate for integrated circuit
- Complete and priced bill-of-materials (BoM)
- Manufacturing process flow
- Manufacturing cost analysis
- Estimated sales price

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AUTHORS



Morgan Collin has joined System Plus Consulting as a Costing Analyst in Electronic Systems in 2019. He is in charge of reverse costing, with a focus on electronic boards and systems. He previously worked for Fougerolle where he was in charge of electronic product production. He holds a BTS in electronics from Jeanne d'Arc High School.

And also:

- *Guillaume Chevalier, Laboratory Technician*
- *Youssef El Gmili, Laboratory Analyst*
- *Peggy Gallois, Laboratory Analyst*
- *Nicolas Radufe, Laboratory Technician*
- *Véronique Le Troadec, Laboratory Engineer*

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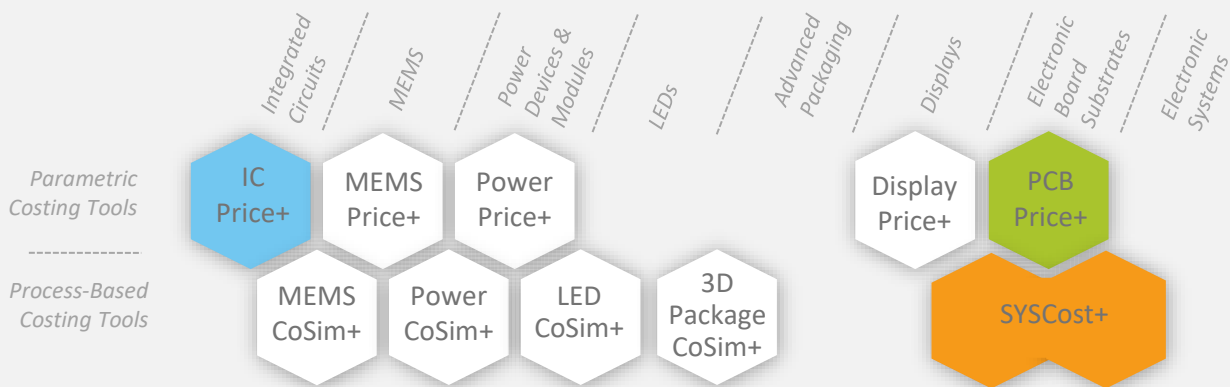


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CONTACTS

Headquarters

22, bd Benoni Goullin
Nantes Biotech
44200 Nantes
France
+33 2 40 18 09 16
sales@systemplus.fr

Europe Sales Office

Lizzie LEVENEZ
Frankfurt am Main
Germany
+49 151 23 54 41 82
llevenez@systemplus.fr

America Sales Office

Steven LAFERRIERE
Western USA & Canada
+1 310-600-8267
laferriere@yole.fr

Chris YOUMAN

Eastern USA & Canada
+1 919-607-9839
chris.youman@yole.fr

Asia Sales Office

Takashi ONOZAWA
Japan & Rest of Asia
+81 80 4371 4887
onozawa@yole.fr

Mavis WANG

Greater China
TW +886 979 336 809
CN +8613661566824
wang@yole.fr

Peter OK

Korea
+82 10 4089 0233
peter.ok@yole.fr

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2.2 The Seller shall by no means be responsible for any delay in respect of article 2.1 above, and including in cases where a new event or access to new contradictory information would require for the analyst extra time to compute or compare the data in order to enable the Seller to deliver a high quality Products.

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2.4 The mailing is operated through electronic means either by email via the sales department or automatically online via an email/password. If the Product's electronic delivery format is defective, the Seller undertakes to replace it at no charge to the Buyer provided that it is informed of the defective formatting within 90 days from the date of the original download or receipt of the Product.

2.5 The person receiving the Products on behalf of the Buyer shall immediately verify the quality of the Products and their conformity to the order. Any claim for apparent defects or for non-conformity shall be sent in writing to the Seller within 8 days of receipt of the Products. For this purpose, the Buyer agrees to produce sufficient evidence of such defects.

2.6 No return of Products shall be accepted without prior information to the Seller, even in case of delayed delivery. Any Product returned to the Seller without providing prior information to the Seller as required under article 2.5 shall remain at the Buyer's risk.

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HSBC, 1 place de la Bourse 69002 Lyon France

Bank code: 30056

Branch code: 00170

Account n°: 0170 200 1565 87

BIC or SWIFT code: CCFRFRPP

IBAN: FR76 3005 6001 7001 7020 0156 587

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3.4 Payment is due by the Buyer to the Seller within 30 days from invoice date, except in the case of a particular written agreement. If the Buyer fails to pay within this time and fails to contact the Seller, the latter shall be entitled to invoice interest in arrears based on the annual rate Refi of the «BCE» + 7 points, in accordance with article L. 441-6 of the French Commercial Code. Our publications (report, database, tool...) are delivered only after reception of the payment.

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4.2 The Seller shall only be liable for (i) direct and (ii) foreseeable pecuniary loss, caused by the Products or arising from a material breach of this agreement

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