



Electronics for the Future

REF66012 —参考设计 ADAS SoC用 PMIC解决方案

Designed by intron 英恒

Designed by







Designed by



intron 英恒

简介

智能前视摄像头(IFC)中集成了200万像素的高分辨率摄像头,支持访问多个毫米波雷达,可安装L2级前向ADAS功能。该解决 方案使用的是具备4TOPS AI算力的Horizon Journey2芯片和Infineon TRAVEO II系列CYT4BF微控制器。通过导入支持Horizon Journey2的视觉算法来识别障碍物、车道和其他交通元素,并使用Infineon TRAVEO II系列CYT4BF微控制器进行车辆传感器融合 和车辆控制,该解决方案可实现AEB、ACC、LCC以及TJA等ADAS功能。 通过选用BD96801Q09和BD9S303MUF等ASIL D功能安全级别的ROHM PMIC芯片,可以确保智能前视摄像头(IFC)的可靠性 和稳定性。

应用 ADAS

规格

| 项目 | 参数 |
|---------|----------------------|
| 等级 | 车载 |
| 输入电压范围 | 9V to 16V |
| 图像处理SoC | Horizon Journey2(J2) |
| 参考板尺寸 | 139mm x 71mm |

详细信息(跳转至中国INTRON网站。) https://www.intron-tech.com/en/index.php

参考板外观





Electronics for the Future

点击这里查看其他参考设计

ROHM Co., Ltd. © ROHM Co., Ltd.

Important Notes on the Use of Reference Designs

- 1) The contents of this document are subject to change without notice for the purpose of improvement.
- 2) ROHM provides reference designs (including, but not limited to, circuit diagrams, layout data, parts lists, reference boards and their evaluation results, etc.) and all materials related to evaluation boards (hereinafter collectively referred to as "Reference Designs, etc.") to customers for the purpose of referencing them in the development of devices, equipment, software, etc. incorporating ROHM products (hereinafter collectively referred to as "Customer Products"). The design, verification, etc. required for the development of the Customer's Product shall be done at the customer's responsibility and expense. In no event shall the customer use the Reference Designs, etc. for any purpose other than the purpose mentioned above.
- 3) Reference Designs, etc. are provided on an "as is" basis. ROHM disclaims all warranties, express or implied, including, but not limited to, warranties of usefulness, functionality, accuracy, merchantability, and fitness for a particular purpose. In no event shall ROHM be liable for any damages (including, but not limited to, lost profits or other incidental, consequential, or punitive damages) arising out of, related to or in connection with the use of or application of the Reference Designs, etc. whether in contract or tort. For the avoidance of doubt, ROHM does not warrant that the Reference Designs, etc. will work with the Customer's Product.
- 4) When using Reference Designs, etc. be sure to request and verify the latest specifications (including the specifications of the products that compose the Reference Design, etc.) separately.
- 5) The customer shall be responsible for implementing safety measures such as derating, redundant design, fire prevention, backup, and fail-safe measures, etc., to prevent personal injury, fire damage, etc., caused by the Customer's Product developed with Reference Designs, etc. ROHM assumes no liability whatsoever for any use in excess of the ratings or in case of failure to observe the instructions for use.
- 6) The application circuit examples, constants, and other information provided in Reference Designs, etc. are intended to illustrate standard operation and usage. Therefore, when designing for mass production, please take into account various external conditions.
- 7) Reference Designs, etc. are intended to show typical operations and examples of application circuits, etc., and do not constitute a license, express or implied, to implement or use any intellectual property rights or any other rights of ROHM or any other company. ROHM shall not be liable for any disputes arising from, related to or in connection with the use of the Reference Designs, etc.
- 8) Please make sure to contact ROHM and obtain ROHM's consent before using the Reference Designs, etc. for the following Customer's Product that requires particularly high reliability. Transportation equipment (in-vehicle, ship, railroad, etc.), trunk line communication equipment, traffic signal equipment, disaster and security equipment, safety equipment, medical equipment, servers, solar cells, power transmission systems, etc.
- 9) Do not use Reference Designs, etc. for the following Customer's Product that requires extremely high reliability. Aerospace equipment, nuclear power control equipment, submarine relay equipment, etc.
- 10) Do not use Reference Designs, etc. for military use, such as development of weapons of mass destruction, or for any other military purpose.
- 11) ROHM does not assume any liability for any accidents or damages caused by non- compliance with the descriptions in this document.
- 12) The information contained in this document has been carefully prepared to ensure accuracy. However, ROHM shall not be liable for any loss or damage incurred by customers due to errors or misprints in this document.
- 13) Do not reproduce or duplicate any part of this document in any form or by any means without ROHM's permission.



Thank you for your accessing to ROHM product informations.

More detail product informations and catalogs are available, please contact us.

ROHM Customer Support System

http://www.rohm.com/contact/