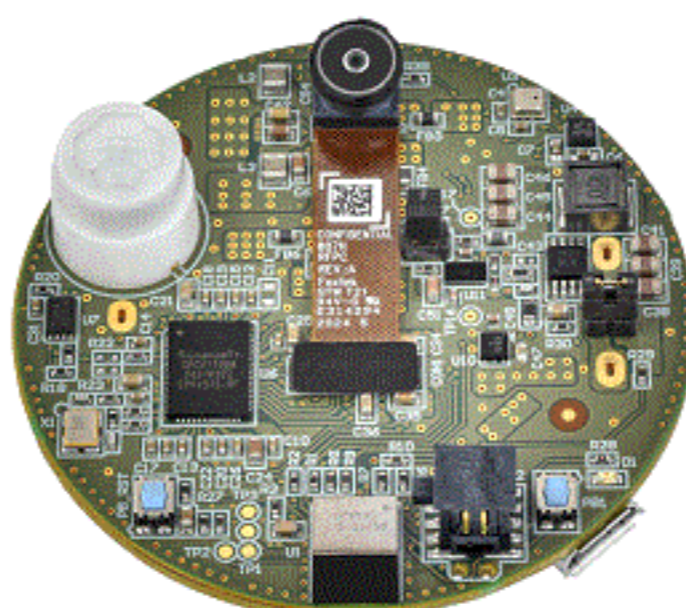


SECO-RSL10-CAM-COLOR-GEVK: RSL10 Smart Shot Color Camera

The RSL10 Smart Shot Color Camera is a complete node-to-cloud solution platform for vision IoT applications that require always on, multi-year battery life with Bluetooth® Low Energy connectivity. Allowing OEMs to design low power cameras with triggered image capture and cloud-based processing, the platform offers the same features as the RSL10 Smart Shot Camera in a smaller form-factor with extended battery life and support for color and mono imaging.



The RSL10 Smart Shot Color Camera includes color and mono IAS image sensor modules, both based on the ARX3A0 CMOS image sensor. Alongside the modules, the platform features a variety of environmental sensors (accelerometer, motion, temperature and humidity) which can be used to trigger event-based image capture (e.g., object detection, temperature change). This allows the platform to capture only required images, helping to reduce data sent to cloud and preserving energy consumption and overall solution cost.

The impressive low-power operation of the RSL10 SIP and ARX3A0 is complemented by a dedicated FAN53880 Power Management IC (PMIC) and additional smart power management modes implemented in hardware. Other devices enabling the efficient power management are the NCP705 low Iq current linear dropout regulator and the NCP1421 ultra-Low Iq boost regulator, when camera board supplied from primary battery.

The RSL10 SIP allows captured images and sensor data to be sent to the provided RSL10 Smart Shot mobile app (available on GooglePlay™, iOS®). Using the app, developers can control the camera, program trigger conditions, and capture and store the images. The app is also connected to the Amazon Rekognition™ AI cloud service. This feature is capable of detecting and identifying objects within a captured image, along with the list of identified objects and confidence levels.

Features and Applications

Features

- Supports multiple image capture trigger modes
 - Periodic
 - Continuous video-like stream with less than 1 frame/s on BLE5.0 and above on compatible mobile devices
 - Proximity detection
 - Acceleration trigger
 - Environment change trigger
- Bluetooth Low Energy connectivity (Bluetooth 5) enabled by the RSL10 SIP
 - Firmware Over The Air (FOTA) updates
- Small form Factor
- Advanced 360 fps imaging provided by the ARX3A0 Mono&Color 121° DFOV IAS Module
 - High sensitivity at both visible and NIR wavelength
 - Super low power (3.2 mW)
 - 1/10" sensor for super compact module
 - Auto Exposure featured enabled during image processing
- RSL10 Smart Shot Mobile App (GooglePlay™, iOS®)
 - Cloud connectivity to Amazon Web Services Rekognition & Microsoft Azure)
 - Image Analytics/AI Engine to detect and identify objects within an image
- Multiple powering options (USB or rechargeable Li-Ion batteries)

Benefits

- Portable
- Extended battery lifetime (5+ years) depending on specific use cases
- Multiple trigger functions for various use cases

Applications

- Asset Monitoring
- Security
- Smart Agriculture
- Criteria-based Monitoring

Evaluation/Development Tool Information					
Product	Status	Compliance	Short Description	Parts Used	Action
SECO-RSL10-CAM-COLOR-GEVK	Active	Pb-free	RSL10 Smart Shot Color Camera	ARX3A0C5SC28SMD20 , FAN53880UC002X , FPF1003A , LE25U20AQGTGX , NCH-RSL10-101S51-ACG , NCP1421DMR2G , NCP3901FCCT1G , NCP705MT33TCG	Buy

Technical Documents			
Type	Document Title	Document ID/Size	Rev
Software	RSL10 Software Package	RSL10 Software Package - 38643 KB	9
Software	ON Semiconductor.RSL10-SmartShot_BSP.2.1.0+1	RSL10 Smart Shot Camera Color CMSIS Pack - 8526 KB	0
Software	RSL10 Smart Shot Camera Firmware Update Package	RSL10 Smart Shot Camera Color Firmware Update Package - 11373 KB	0
Eval Board: Schematic	SECO-RSL10-CAM-COLOR-GEVK Schematic	SECO-RSL10-CAM-COLOR-GEVK_Schematic - 755 KB	2
Eval Board: Gerber	SECO-RSL10-CAM-COLOR-GEVK Manufacturing Files	SECO-RSL10-CAM-COLOR-GEVK_MFG - 10623 KB	3
Eval Board: BOM	SECO-RSL10-CAM-COLOR-GEVK Bill of Materials (ROHS Compliant)	SECO-RSL10-CAM-COLOR-GEVK_BOM_ROHS - 116 KB	2
Eval Board: Manual	RSL10 Smart Shot Color Camera Evaluation Board User's Manual	EVBUM2803/D - 3554 KB	0
Software	RSL10 Smart Shot Color Camera Getting Started Guide	RSL10 Smart Shot Color Camera Getting Started Guide - 4101 KB	0
Application Notes	RSL10 Smart Shot Camera Power Consumption Measurements	AND90131/D - 376 KB	0
Software	onsemi IDE Installer	onsemi IDE Installer - 643945 KB	3

Previously Viewed Products

Select Product [Go](#)

[Clear List](#)

Support

[Technical Documentation](#)

[Design Resources & Documents](#)

[Technical Support](#)

[Sales Support](#)

About onsemi

- Leadership
- Quality & Reliability
- Ecosystem Partners
- Fact Sheet
- Intellectual Property
- Locations

Investor Relations

- Financials
- Resources
- Governance
- Events
- News
- Stock Info

News & Media

- Press Announcements
- In The News
- Blog
- COVID-19 Business Updates
- Media Contacts
- Image Library

Careers

- University Relations
- Search Jobs

Support

- Technical Support
- Sales & Distribution Support
- Frequently Asked Questions
- Contact Us
- Community Forums

