

Product Overview

NOA1302: Ambient Light Sensor with I²C Interface

For complete documentation, see the data sheet.

NOA1302 integrates a wide dynamic range ambient light sensor (ALS) with a 16-bit ADC and a 2-wire I2C digital interface. The NOA1302 ambient light sensor provides a linear response over the range of close to 0 lux to well over 100,000 lux with programmable integration times to optimize noise performance. The sensor employs proprietary CMOS image sensing technology from ON Semiconductor which provides low noise and high dynamic range output signals and light response similar to the response of the human eye. The NOA1302 operates as an I2C slave device and supports commands to set options in the device and read out the ambient light intensity count.

Features

- Close to human eye response
- 0 lux to over 100,000 lux range
- Programmable integration times
- Linear response over full range
- Output count proportional to ambient light intensity

Applications

- Display power management in computing
- Display power management in consumer products
- Power management for general illumination

Benefits

- Display power savings
- Operation from dark to full sunEliminates range adjustments
- Improved noise performance
- Simple application algorithms
- Simple application algorithms

End Products

- Laptops, notebooks, digital signage
- LED indoor/outdoor residential, street lights
- LCD TV/monitors, digital picture frame

For more information please contact your local sales support at www.onsemi.com.

Created on: 9/19/2019