

Millisecond calculation light module

Overview

The integration time is stored in the `SYSALS__INTEGRATION_PERIOD (0x0040)` in milliseconds. My idea is to use a combination of an RTC such as DS3231 and an internal timer/counter in Arduino. Here is a general idea how it would work: RTC generates a signal every 1 second, and I don't mean just 1 Hz frequency signal, but a signal when a new second starts according to real time (at 000. I need to calculate the delay of sending data from Arduino A to Arduino B. It does have a 32kHz square-wave output for a. When the future is dazzlingly-bright, this ultra-high-range luminosity sensor will help you measure it. The TSL2591 luminosity sensor is an advanced digital light sensor, ideal for use in a wide range of light situations. Visible light intensity is also known as lux.



Article Content

Aug 10, 2025

How to get millisecond resolution from DS3231 RTC

The DS3231 only has second resolution provided in the registers. It does have a 32kHz square-wave output for a clock source but you would have to count the pulses in an ISR. The millis () ...

Apr 25, 2026

Millisecond precision time with DS3231

I would like to be able to record events and attach a timestamp with millisecond precision. My idea is to use a combination of an RTC such as DS3231 and an internal timer/counter in Arduino.

Jan 20, 2026

TSL2561 Luminosity Sensor example

This TSL2561 is an I2C light-to-digital converter TSL2561 that transforms light intensity to a digital signal. The TSL2561 features a selectable light spectrum range due to its dual light sensitive ...

Aug 03, 2025

Measuring visible light with Arduino, Tsl2561 Luminosity sensor and ...

In this tutorial i am going to teach you how we can measure the visible light intensity using arduino and sparkfun Luminosity Sensor Tsl2561. Light intensity value will be displayed on ...

Jul 12, 2026

VL6180X ambient light sensing

The ambient light sensor works by counting photons over a fixed time period referred to as the integration time. The resulting output value is proportional to the amount of light sensed or photons ...

Apr 19, 2026

Adafruit TSL2591 High Dynamic Range Digital Light Sensor

Compared to low cost CdS cells, this sensor is more precise, allowing for exact lux calculations and can be configured for different gain/timing ranges to detect light ranges from up to ...

Jun 26, 2026

millis() | Arduino Documentation

Returns the number of milliseconds passed since the Arduino board began running the current program. This number will overflow (go back to zero), after approximately 50 days.

Jul 17, 2026

How to Calculate Milliseconds in Python Using datetime Module: A ...

This guide will walk you through everything you need to know to calculate, parse, and format milliseconds using Python's "datetime" module.

Oct 22, 2025

How to Measure LUX With Arduino : 5 Steps

In this tutorial we will use the Adafruit TSL2561 sensor to measure LUX with Arduino. The TSL2561 luminosity sensor is an advanced digital light sensor, ideal for use in a wide range of light situations.

Sep 25, 2025

Arduino Micros () Function

If you need high resolution or any timing requirement that is less than a millisecond, use the micros () function. Otherwise, you can just use the millis () function for larger time intervals (in the milliseconds ...

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