UV Sensor User Manual

1. Features

Boost convertor chip	SGM8521
Operating voltage	3.0V-5.5V
Output type	TTL level output
Responsive wavelength	200nm-370nm
Dimensions	21.0mm*13.0mm
Fixing hole size	2.0mm

Operating principle:

This module has an UV sensor, GUVA, which is a ideal device for detecting the amount of UV ray without wavelength filter, since it is UV ray sensitive only. In other word, the wavelengths of 365nm(UV-A) and 320nm(UV-B) are the cut-off thresholds of GUVA.

2. Applications

This module can be applied to UV ray detecting system, outdoors UV monitoring device, sterilizing lamp and etc.

3. Interfaces

Pin No.	Symbol	Descriptions
1	AOUT	Analog output
2	GND	Power ground
3	VCC	Positive power supply (3.0V-5.5V)

4. How to use

We will illustrate the usage of the module with an example of UV ray testing by connecting a development board.

① Download the relative codes to the development board.
② Connect the module to the development board via a serial wire, then, power up the development board and start the serial debugging software. Here is the configuration of the connection between the module and the development board.

Port	STM32 MUC pin
AOUT	GPIOA.6
GND	GND
VCC	3.3V

Port	Arduino pin
AOUT	A0
GND	GND
VCC	5V

Here is the configuration of the serial port

Baud rate	115200
Data bits	8
Stop bit	1
Parity bit	None

③ Turn on a currency detector and illuminate its UV ray to the UV sensor. You will find that the serial port outputs relative data from the test.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Optical Sensor Development Tools *category:*

Click to view products by Parallax *manufacturer:*

Other Similar products are found below :

AR0330CS1C12SPKAH3-GEVB MT9V034C12STCH-GEVB MT9V115EBKSTCH-GEVB 416015300-3 ISL29102IROZ-EVALZ
MT9M021IA3XTMH-GEVB AR1820HSSC12SHQAH3-GEVB AR1335CSSC11SMKAH3-GEVB MAXCAMOV10640#
MT9M031I12STMH-GEVB TSL2581CS-DB TMD3700-DB NANOUSB2.2 ASX340AT3C00XPEDH3-GEVB AR0144ATSM20XUEAH3-
GEVB AR0144CSSC00SUKAH3-GEVB AR0522SRSC09SURAH3-GEVB AR0522SRSM09SURAH3-GEVB AR0521SR2C09SURAH3-
GEVB MARS1-MAX9295A-GEVK MARS1-MAX9296B-GEVB ISL29112IROZ-EVALZ AR0233AT2C17XUEAH3-GEVB
AR0431CSSC14SMRAH3-GEVB MARS-DEMO3-MIPI-GEVB TCS3430-DB AR0234CSSC00SUKAH3-GEVB AR0130CSSM00SPCAH-
GEVB AR0330CM1C00SHAAH3-GEVB EVALZ-ADPD2212 TMD2772EVM TMG3993EVM MIKROE-2103 TSL2672EVM 1384
MT9M114EBLSTCZDH-GEVB SEN0043 SEN0162 TMD2771EVM TMD3782EVM TSL4531EVM 1918 AS7225 DEMO KIT SEN0097
SEN0228 AR0134CSSC00SUEAH3-GEVB AP0100AT2L00XUGAH3-GEVB AR0144CSSM20SUKAH3-GEVB 725-28915 EVAL-
ADPD1081Z-PPG