



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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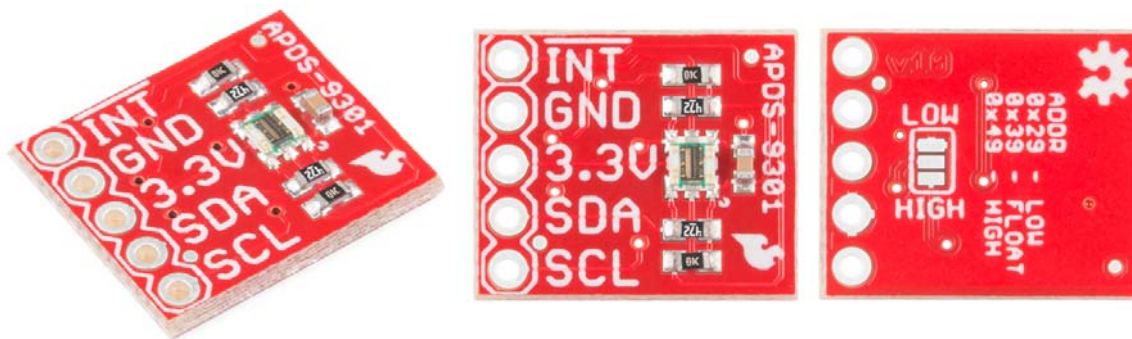
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# SparkFun Ambient Light Sensor Breakout – APDS-9301

SEN-14350 RoHS



The APDS-9301 Ambient Light Sensor Breakout is an I<sup>2</sup>C-compatible luminosity sensor board that converts light intensity to a digital output signal. This breakout is fairly simple and has been specifically designed with only a few ancillary passive components in addition to the ADPS-9301 IC itself. All readings are returned to your chosen microprocessor in [lux](#), providing precise Illuminance measurement under diverse lighting conditions.

On top of each board breaking out our standard I<sup>2</sup>C pin-out of SCL, SDA, 3.3V and GND, we've also provided an INT pin so the APDS-9301 can be programmed to generate an interrupt under certain conditions. It is important to note that this breakout is non-instantaneous, so it will require some integration time to take a measurement.

- Typical Operating Voltage: 3.0V
- Maximum Operating Voltage: 3.6V
- 16-Bit Digital Output with I<sup>2</sup>C Fast-Mode at 400kHz
- Programmable Analog Gain and Integration Time
- 50/60-Hz Lighting Ripple Rejection
- Programmable Interrupt Pin and Function
- I<sup>2</sup>C Pull-up Resistors

