



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!



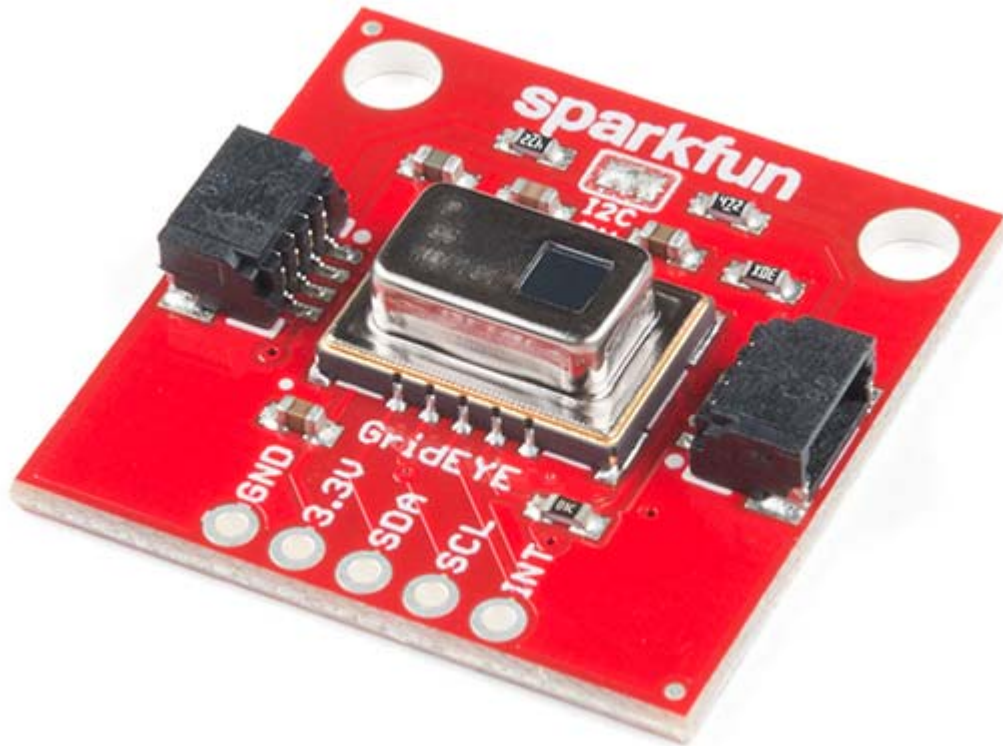
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SparkFun Grid-EYE Infrared Array Breakout - AMG8833 (Qwiic)

SEN-14607 ROHS Open Source Hardware

Get ready to be able to see like the Predator! The SparkFun Grid-EYE Infrared Array Breakout board is an 8x8 thermopile array, meaning you have a square array of 64 pixels capable of independent temperature detection. It's like having a thermal camera, just in a lower resolution. To make it even easier to get your low-resolution infrared image, all communication is enacted exclusively via I²C, utilizing our handy Qwiic system. However, we still have broken out 0.1"-spaced pins in case you prefer to use a breadboard.

The on-board AMG8833 Grid-EYE possesses an accuracy rate of $\pm 2.5^{\circ}\text{C}$ ($\pm 4.5^{\circ}\text{F}$) with a temperature range of 0°C to 80°C (32°F to 176°F). Additionally, this IR "camera" board can detect human body heat at about 7 meters or less (that's about 23 feet), and has a frame rate of 10 frames a second to one frame a second. It is important to point out that while this version of the Grid-EYE is the high performance type with a high gain, it is only 3.3V tolerant. IE: Don't try to operate it at 5V (you won't have a very good time).

The SparkFun Qwiic connect system is an ecosystem of I²C sensors, actuators, shields and cables that make prototyping faster and less prone to error. All Qwiic-enabled boards use a common 1mm pitch, 4-pin JST connector. This reduces the amount of required PCB space, and polarized connections mean you can't hook it up wrong.

FEATURES

- Operating Voltage(Startup): 1.6V - 3.6V
- Operating Voltage(Timekeeping): 1.5V - 3.6V
- Current Consumption: 4.5 mA
- 8x8 Thermopile Array
- Temperature Range: 0°C to 80°C (32°F to 176°F)
- Accuracy Rate: ±2.5°C (±4.5°F)
- Human Detection Distance: 7m or less (22.966ft)
- I²C Address: 0x69 (open jumper, default) or 0x68 (closed jumper)
- 2x Qwiic Connection Ports

