

# Category:AS3935 Lightning Sensor Dev Board

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## Product Details

A few weeks back I was browsing some vendor sites and found what is probably one of the coolest new products i've seen in a while. It's an IC that can detect lightning! Once I saw it, I knew it was only a matter of time before i'd have a board in the works, and here it is.

This new board is a breakout / development board for the AMS AS3935 Franklin Lightning Sensor. This is a super cool little IC, capable of detecting lightning strikes up to 40km away, and will estimate distance to the leading edge of a storm with some neat internal processing. The IC has support for both SPI or I2C bus making integration with your design nice and easy.



The board I've developed is set up with the required components to get the IC running and includes the proper antenna designed specifically for the AS3935. The back side of the board has spots for the two pullup resistors required for I2C operation should you require them.

The IC is set up to run anywhere from 2.4 - 5.0vdc. Details on interfacing with the IC are available on the datasheet available from AMS.

## Schematic

Here's a really nice Schematic & Mechanical Drawing

(<https://s3.amazonaws.com/tautic1/public/Product+Documentation/AS3935/AS3935+Schematic+and+Mechanical.pdf>) for the board drawn by @JohnS\_AZ ([http://twitter.com/JohnS\\_AZ](http://twitter.com/JohnS_AZ)) .

## Where can I get one?

- tINDIE (<https://tindie.com/TAUTIC/as3935-lightning-sensor-board/>)

## Sample Code

Sample code is available showing how to connect and interface with this board.

The following library is compatible with both the ChipKit and Arduino platforms. Thanks to @RaivisR (<http://twitter.com/RaivisR>) for the excellent work: AS3935 Arduino Library (<https://github.com/raivisr/AS3935-Arduino-Library>)

There's also a very nice Propeller object over on the Propeller Object Exchange for the AS3935 Lightning Sensor. Thanks to @lostcauz\_ ([http://twitter.com/lostcauz\\_](http://twitter.com/lostcauz_)) for writing and testing this. AS3935 Lightning Sensor Propeller Object (<http://obex.parallax.com/objects/893/>)

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