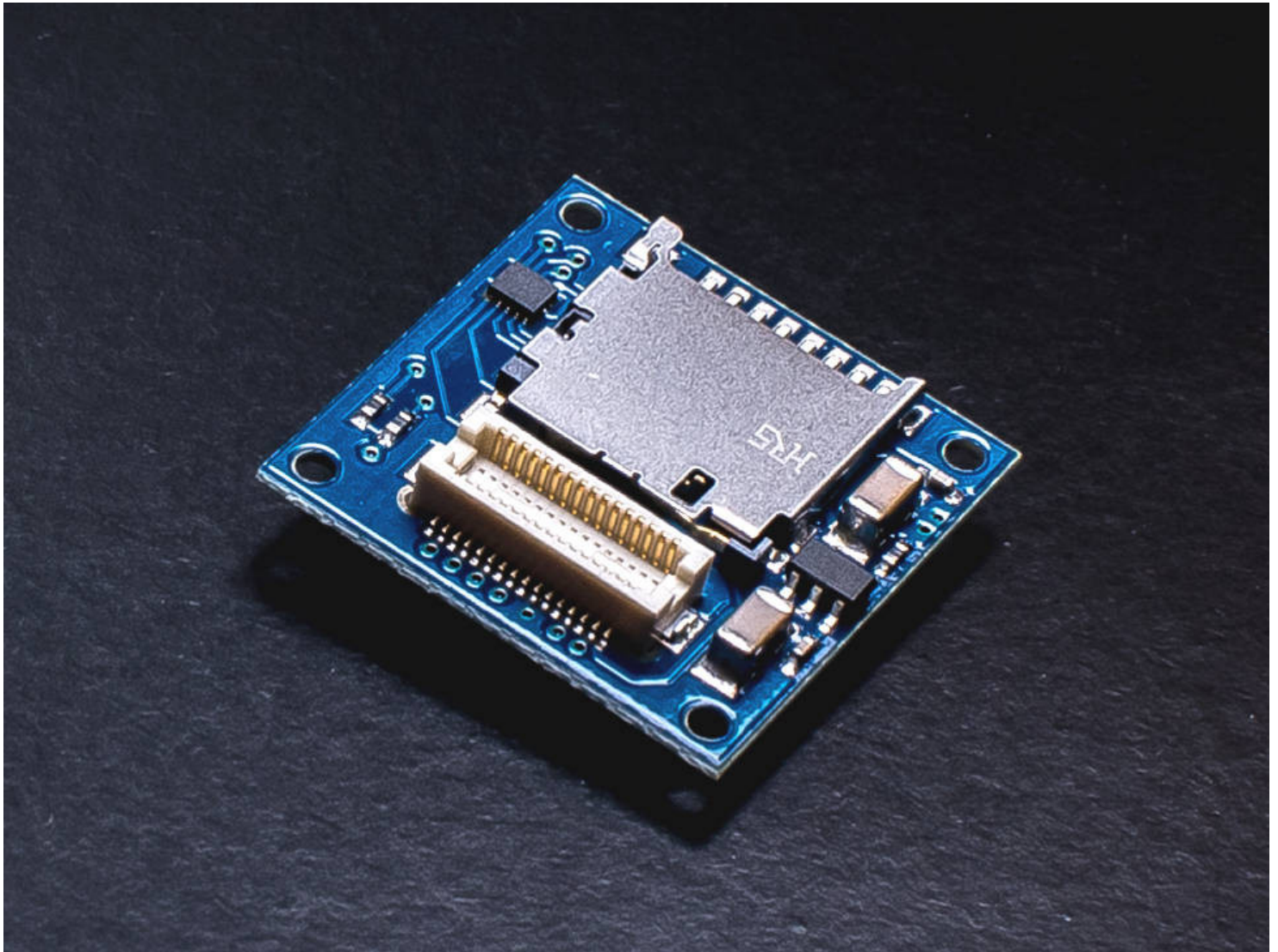


# MicroSD TinyShield - ASD2201-R

[tinycircuits.com/collections/memory/products/microsd-tinyshield](http://tinycircuits.com/collections/memory/products/microsd-tinyshield)



## DESCRIPTION

Sometimes you need to add a little storage to your projects, and sometimes you need a lot. This TinyShield microSD Adapter lets you add a huge amount of storage by connecting a microSD card to your TinyDuino. And with SD card support libraries included with the Arduino Software environment, you can have your project using microSD cards in a matter of minutes!

This TinyShield incorporates level shifters and a local power supply to ensure proper and safe operation over the entire TinyDuino operating voltage range up to 5V – no need to worry about damaging your microSD cards if you're running at 5V.

**Note:** This does not include the microSD card (sold separately), you can get a compatible microSD card [here](#).

To learn more about the *TinyDuino Platform*, click [here](#)

# TECHNICAL DETAILS

To see what other TinyShields this will work with or conflict with, check out the [TinyShield Compatibility Matrix](#)

## microSD Specs

- Uses standard Arduino SD Card Library
- Supports standard microSD cards and SDHC cards

## TinyDuino Power Requirements

- Voltage: 3.0V - 5.5V
- Current: 100mA or more during SD card writes, depends on the microSD card being used. Because of this high current, the TinyDuino processor cannot be used with a coin cell.

## Pins Used

SPI Interface used

- **10 - CS:** This signal SPI chip select for the microSD card
- **11 - SCLK:** This signal is the serial SPI clock out of the TinyDuino and into the microSD card.
- **12 - MISO:** This signal is the serial SPI data out of the microSD card and into the TinyDuino.
- **13 - MOSI:** This signal is the serial SPI data out of the TinyDuino and into the microSD card.

## Dimensions

- 20mm x 20mm (.787 inches x .787 inches) Note: microSD card overhangs the edge by approx 3mm for easy removal
- Max Height (from lower bottom TinyShield Connector to upper top TinyShield Connector): 5.11mm (0.201 inches)
- Weight: 1.36 gram (.05 ounces)

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## Notes

- This does not include the microSD card (sold separately), you can get a compatible microSD card [here](#).
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