MICROSD TINYSHIELD

ASD2201-R

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).

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 car overhanges 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)

NOTES

- This does not include the microSD card (sold separately).