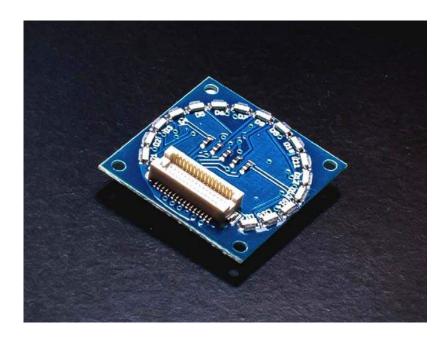


## 16 EDGE LED TINYSHIELD

ASD2411-R-LR



## **DESCRIPTION**

The 16 Edge LED TinyShield allows some cool and easy LED indications using only five I/O signals. The 16 LEDs are mounted around the outside of the board, and can easily be seen even when the LED board is in the middle of a TinyShield stackup. The LEDs are arranged using Charlieplexing, which is a technique to allow for control of multiple LEDs using fewer I/O signals. Available with Red, Green and Amber LED color options.

### TECHNICAL DETAILS

To see what other TinyShields this will work with or conflict with, check out the **TinyShield Compatibility Matrix** 

#### **LED Specs**

- o 16 Side Mounted LEDs around the edge of the board
- Charlieplexed IO on 5 signals
- o Available in Green, Amber or Red

#### **TinyDuino Power Requirements**

- Voltage: 3.0V 5.5V
- o Current:
  - 1.5mA per LED (3.0V)
  - o 5.0mA per LED (5.0V)
  - Due to the low current, this board can be run using the TinyDuino coin cell option

#### **Pins Used**

Pins 5, 6, 7, 8, and 9 are used, see schematic or sample code for connections

#### **Dimensions**

- 20mm x 20mm (.787 inches x .787 inches)
- Max Height (from lower bottom TinyShield Connector to upper top TinyShield Connector): 5.11mm (0.201 inches)
- Weight: 1 gram (.04 ounces)

# NOTES

0	If the top connector is not needed, there is also the Circle LED TinyShield which has
	LEDs that circle the entire board.

0	The LEDs	are hooked	up using	Charlieplexing	ı. a t	echnique	for driving