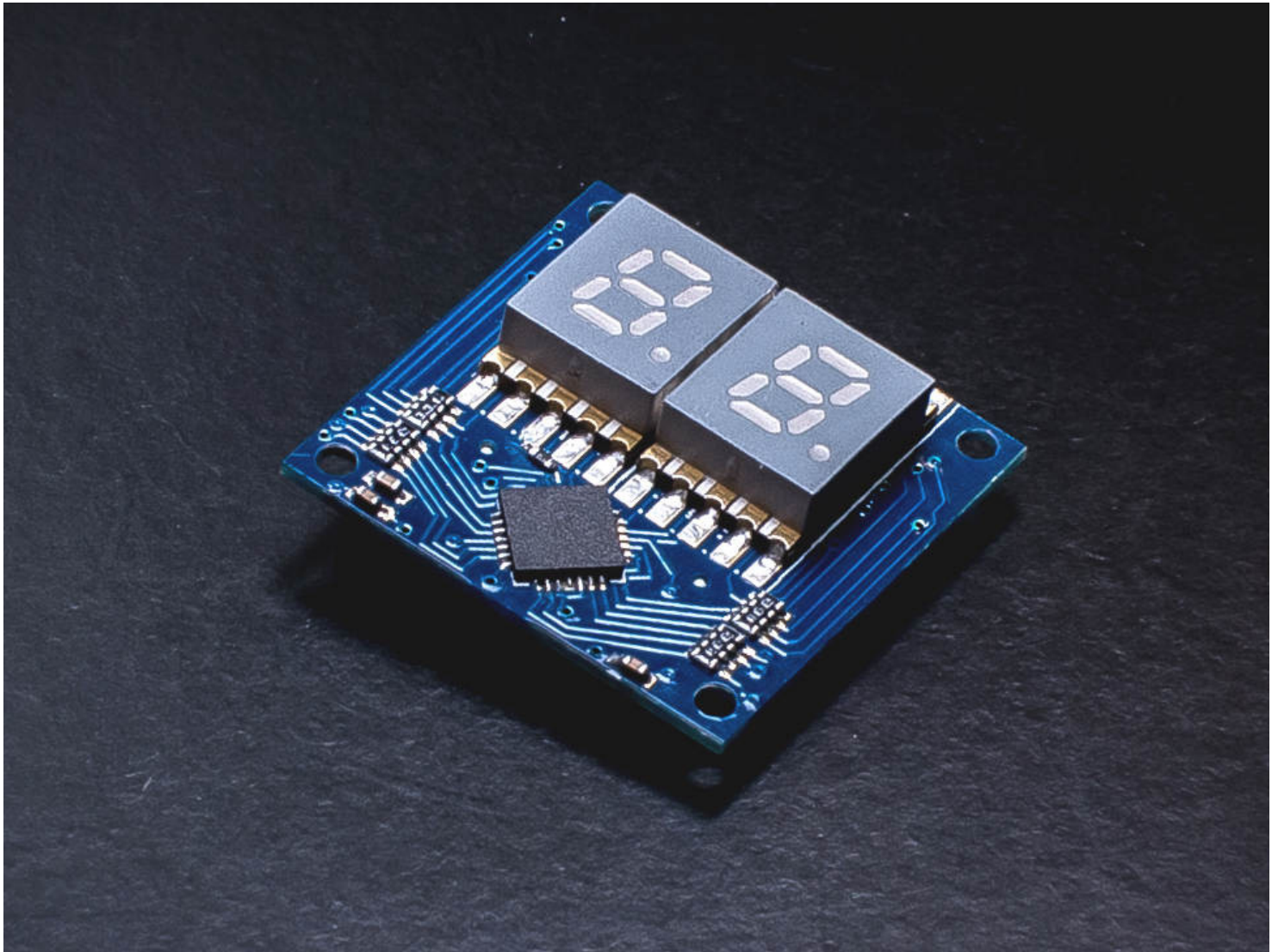


# 7 Segment Display TinyShield - ASD2421-R

[tinycircuits.com/collections/leds-displays/products/7-segment-display-tinyshield](https://tinycircuits.com/collections/leds-displays/products/7-segment-display-tinyshield)



## DESCRIPTION

The TinyShield 7 Segment Display Board contains two seven segment LEDs (Red LEDs) that can be set over the I2C (thus saving signals to do other tasks) by using a Semtech SX1506 I/O expander. Each of the segments including the decimal indicator can be individually selected, and a library is provided to make it extremely easy to use.

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](#)

## Display Specs

- Two Seven Segment LEDs, Color Red
- Displays include decimal indicator
- I2C Semtech SX1506 I/O Expander

## TinyDuino Power Requirements

- Voltage: 3.0V - 5.5V
- Current:
  - 4mA per segment (3.0V)
  - 10mA per segment (5.0V)
  - Due to the current, this board can run for a very short time on the TinyDuino with coin cell, however a Lithium battery should be used for longer life.

## Pins Used

- A5/SCL - I2C Serial Clock line
- A4/SDA - I2C Serial Data line

## Dimensions

- 20mm x 20mm (.787 inches x .787 inches)
  - Max Height (from lower bottom TinyShield Connector to upper top of LED displays): 6.6mm (.26 inches)
  - Weight: 1.36 grams (.05 ounces)
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## Notes

- This board has no top TinyShield connector, so no additional TinyShields can be stack on top of this. This board is meant to be on the top of a TinyDuino stack.
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