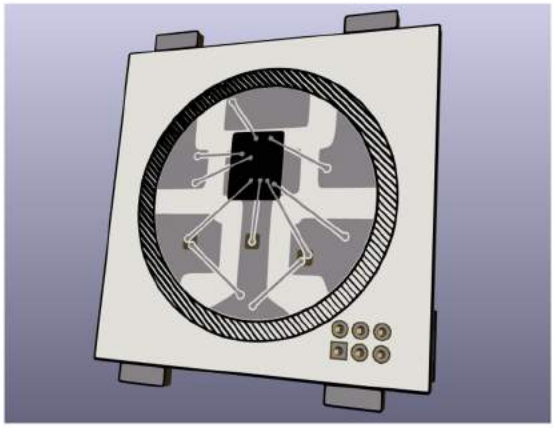
# W220497ASS14
## *Shitty Pixel*

blinking things

## Applications

- Conference Badge Decoration
- Bling
- Experimentation
- Education
- “Hacking”



## Product Features

- 3 Individually controllable LEDs.
- At least 3 different animations
- Can read I2C commands sent from host badge*
- SAO v1.69bis compatible
- 3.3V!
- Secrets
- ICSP
- I2C
- RGB
- Countless other abbreviations!

## General Description

The W220497ASS14 Shitty Pixel is a premium electronic conference badge add-on. It will enhance both the look and functionality of your favorite conference badge. By default it loops through an RGB rainbow cycle, but if sent the correct I2C commands, you can change the animations and intensity of the LEDs. More than just a blinky, this is a full on hackable platform begging to be experimented with.

## I2C Commands

**LED Control**
7-bit address: 0x42
Data address: 0x00 (Mode: 0x00-0x??)
0x01 (Speed: 0x00-0xFF)
0x02 (Red Maximum: 0x00-0xFF)
0x03 (Green Maximum: 0x00-0xFF)
0x04 (Blue Maximum: 0x00-0xFF)
0x05 (Save/Reload State)

**I2C Write Example**:
0x42 0x00 0x00 = all pixels off
0x42 0x00 0x01 = all pixels on
0x42 0x02 0x00 = red pixel off.
0x42 0x04 0xAA = blue pixel at whatever intensity 0xAA is
0x42 0x00 0x03 = default mode
0x42 0x05 0x52 = reload saved state from EEPROM
0x42 0x05 0x57 = save current state to EEPROM

**EEPROM Control**
7-bit address: 0x50
Data address: 0x00 (DC Year)
0x01 (Maker ID)
0x02 (SAO Type ID)
0x03 (Arbitrary Data)

**I2C Read Example**:
0x50 0x00 = DC Year
0x50 0x01 = Maker ID
0x50 0x02 = SAO Type ID