

YellowHat Assembly and Testing

Pre-assembly work

1. Burn bootloader using Arduino as ISP, Arduino Nano, old bootloader
2. Burn software using FTDI with AVR ISP for Arduino Nano and old bootloader

Assembly

1. Install SMT RGB LED on the bottom or component side of the board
2. Install Stick connector on top side
3. Install LED Pigtail. Squared hole (Pin1) is GND (White wire) on top side
4. Install 12pol pin headers A, B, C, D on top side
5. Install DC barrel connector on top side

Testing

1. Install Stick, set to Loconet over TCP with settings for LED and buttons
2. Connect LED Matrix
3. Connect power
4. Verify Stick is booting up
5. Check input buttons with shorted pin header,
6. Issue switch commands, verify Matrix LED