

Power Consumption

5V, 500mA
24V, 77mA

MAIN CONTROLLER LED

POWER INDICATOR LEDs

START TRIGGER LED

RELAYS LEDs

MEDIA CONTROLLER LED

STEPPER CONTROLLER LED

LEDs

Green LEDs Indicators

Power Indicator LEDs	Check if Board is powered with all necessary voltages
Start Trigger LED	Lights up when the Coin-Sensor (or an auxiliary sensor) is triggered
Relais LED	Corresponding LED lights up when either the Power Supply Relais or the solenoid at the coin slot is triggered

Red LED "Main Controller" Status and Error Messages

off everything ok, waiting for start (_IDLE)

blinks fast (100ms) ESP32 waits for teensy to reset (_WAIT_FOR_TEENSY)

blinks slow (1s) Show is Playing (_PLAY)

blinks very slow (2s) Stepper Controller is in test-mode (_HARDWARE_TEST)

Red LED "Media Controller" Status and Error Messages

off everything ok, waiting for start (_IDLE)

blinks slow (1s) Show is Playing (_PLAY)

blink codes with two seconds pause between blink-code:

1 blink Initialization of SD-Card failed

2 blinks Failed to read files from SD-Card

3 blinks Failed to write files to SD-Card

Red LED "Stepper Controller" Status and Error Messages

off everything ok (_IDLE)

blinks fast (100ms) Resetting Motors (_RESET, _WAIT_FOR_MOTOR_INIT)

blinks slow (1s) Show is Playing (_PLAY)

blinks very slow (2s) Stepper Controller is in test-mode (_HARDWARE_TEST)

blink codes with two seconds pause between blink-code:

1 blink Initialization of SD-Card failed

2 blinks Failed to read files from SD-Card



KiCad RoHS

Dip Switch

- 1 auto-repeat on / off
- 2 keep 24V Power Supply always on
- 3
- 4 buzzer on / off

Buttons

- A start show
- B stop show

Buzzer (Status and Error Messages)

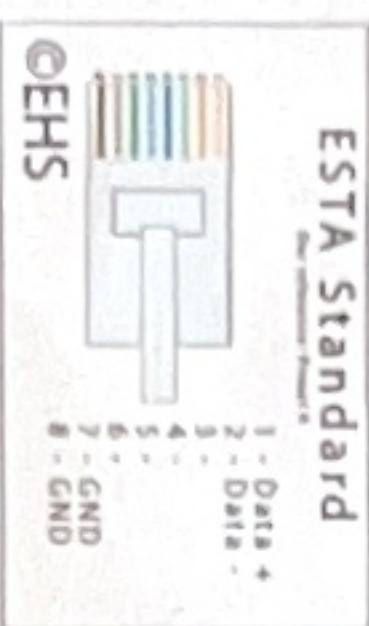
RJ45 Terminals

5	6	7	8	13	14	15	16
1	2	3	4	9	10	11	12

DMX Transmitter

- on Port 16 at the RJ45 terminal
- via the three-pin jumper labeled "DMX TX"
- via the green terminal on the blue MAX485 board

Port 16 at the RJ45-Terminal follows the ESTA Standard



Test Mode

Don't use the TestMode when all motors are attached at the installation. Motors will run without stopping at the end-switches!

- 1) Hold down button A while powering on OR hold down button A and press RST on Main Controller.
Only the MainController is now in TestMode:
 - Three red LEDs (MainController, Relais Coinslot, Relais Power) toggle every two seconds and a short "be-beep" sounds from the speaker.
 - When a serial monitor connection is established with the ESP32, the states of the buttons are presented there
- 2) When in TestMode, press:
 - Button A to start Media Controller (plays the show)
 - Button B to start Stepper Controller in TestMode (all motors drive slowly and stop when the endswitch is pressed)