

4-pin touchpanel connector

HDMI-Display Rev 1.2

github.com/watterott/HDMI-Display



EDID

EDID EEPROM programming

LED backlight:
L+/L- > on-board regulator
5V > +5V voltage

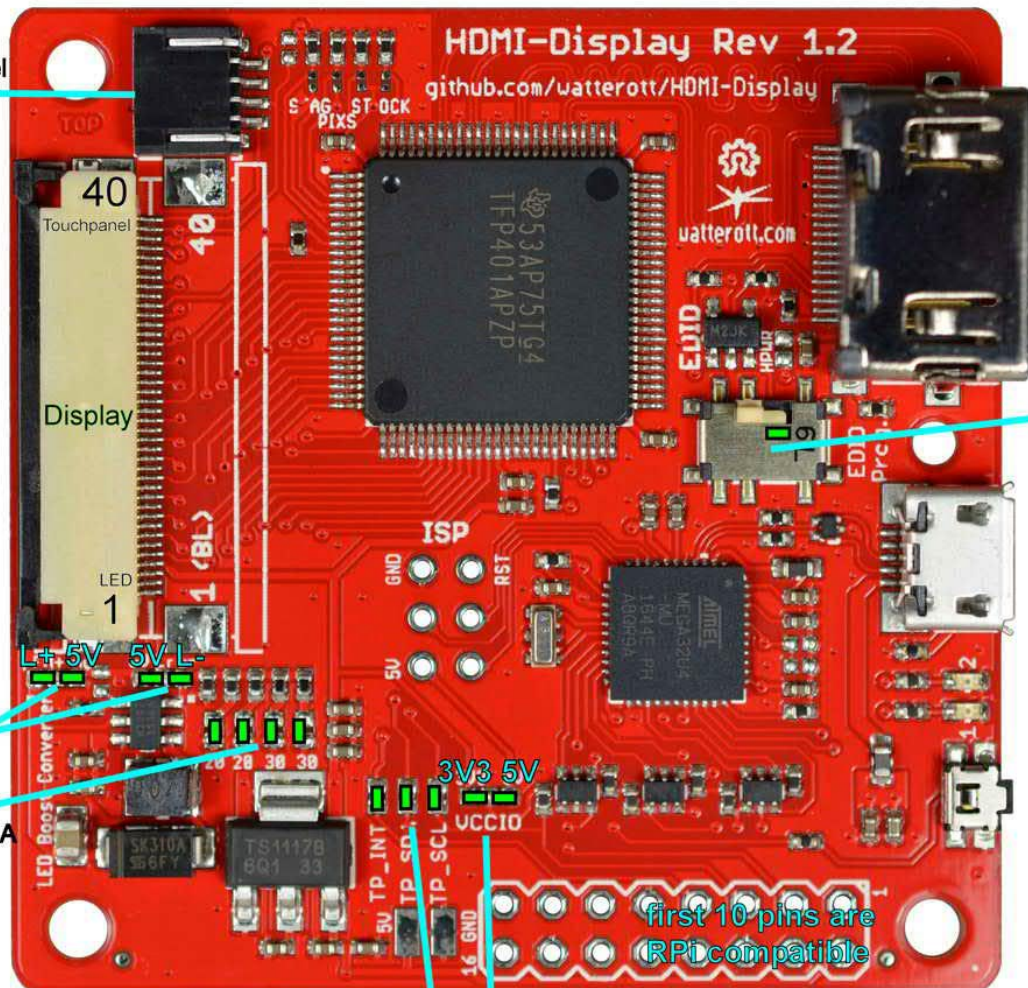
all jumpers open: 20mA
+20mA +20mA +30mA +30mA

3V3 5V

VCCIO

first 10 pins are
RPI compatible

close for I2C capacitive touchcontroller on 40-pin
display connector and set VCCIO to 3.3V
SDA+SCL from EEPROM have to be open



Jumper	LED+	LED-	VCCIO	TP_SDA	TP_SCL	TP_INT
Displays with resistive Touchpanel (no Backlight Boost Regulator)	LED+	LED-	3.3V or 5V	open	open	open
Displays with capacitive Touchpanel (on-board Backlight Boost Regulator)	5V	5V	3.3V	closed	closed	closed

The adapter is pre-programmed with the respective firmware for a resistive (RTP) or capacitive (CTP) Touchpanel. But the EDID EEPROM is empty. To program EDID data into the EEPROM the switch has to be set to the marked direction and HDMI has to be disconnected during the programming. The programming can be started, when the tactile switch *SW1* is hold on power-up.

The backlight brightness of the Displays with capacitive Touchpanel can be controlled via Pin 35 (AVR PB6).

Displays with resistive Touchpanel: TFT043-3, TFT050-3, TFT070-4

Displays with capacitive Touchpanel: HY050CTP-HD, HY070CTP, HY070CTP-HD, HY101CTP

HYxxxCTP Display RGB-Connector

