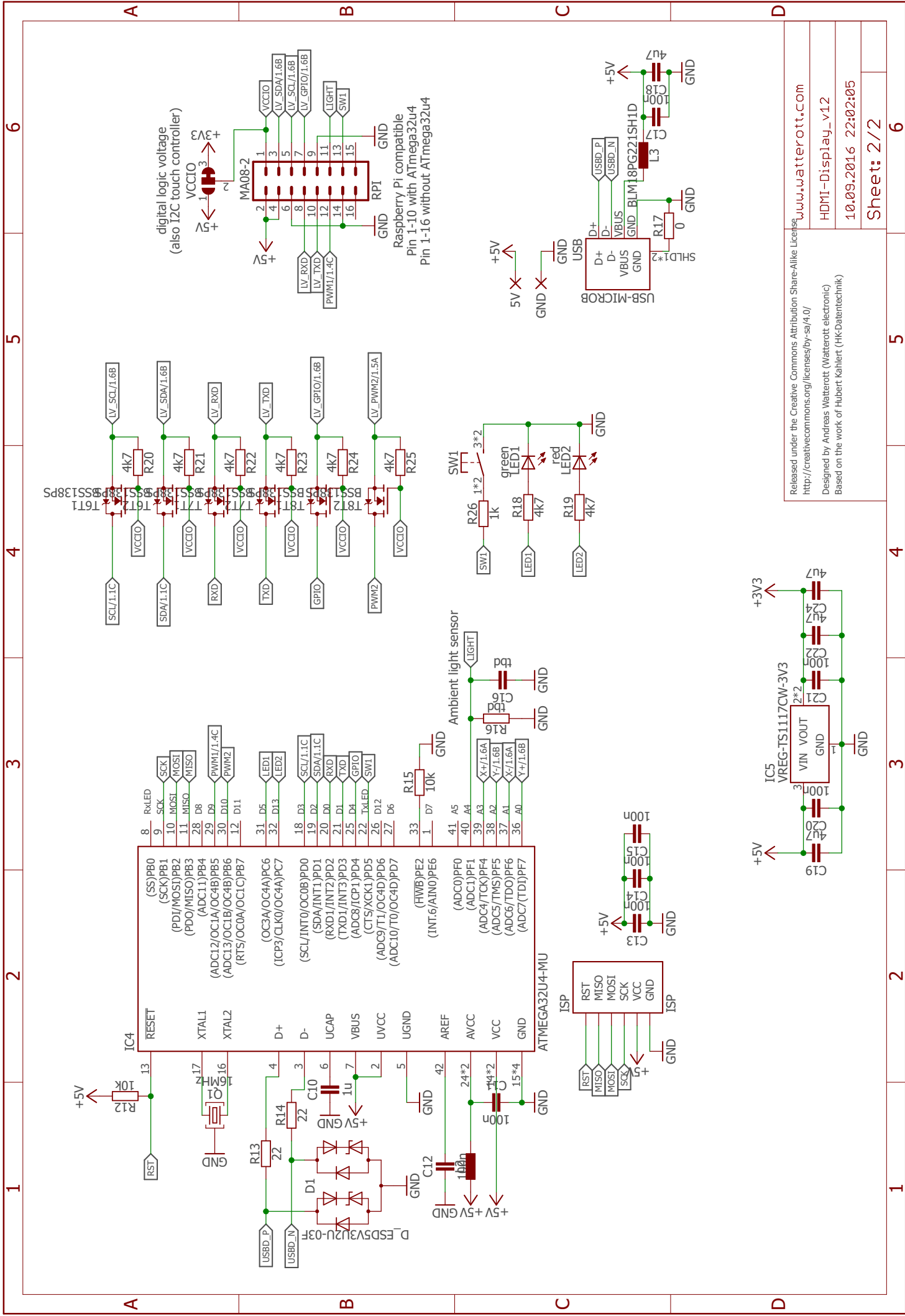


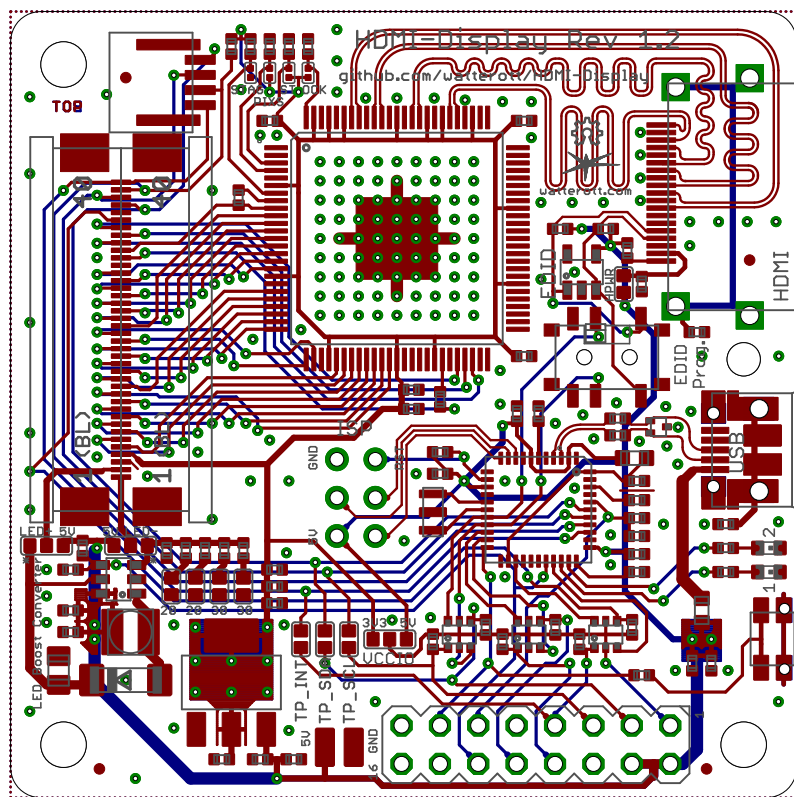
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Designed by Andreas Watterott (Watterott electronic)  
Based on the work of Hubert Kahler (HK-Datentechnik)

[www.watterott.com](http://www.watterott.com)  
HDMI-Display\_v1.2  
10.09.2016 22:02:05

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OSHW Watterott





4-pin touchpanel connector

## HDMI-Display Rev 1.2

[github.com/watterott/HDMI-Display](https://github.com/watterott/HDMI-Display)



EDID

EDID EEPROM programming

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

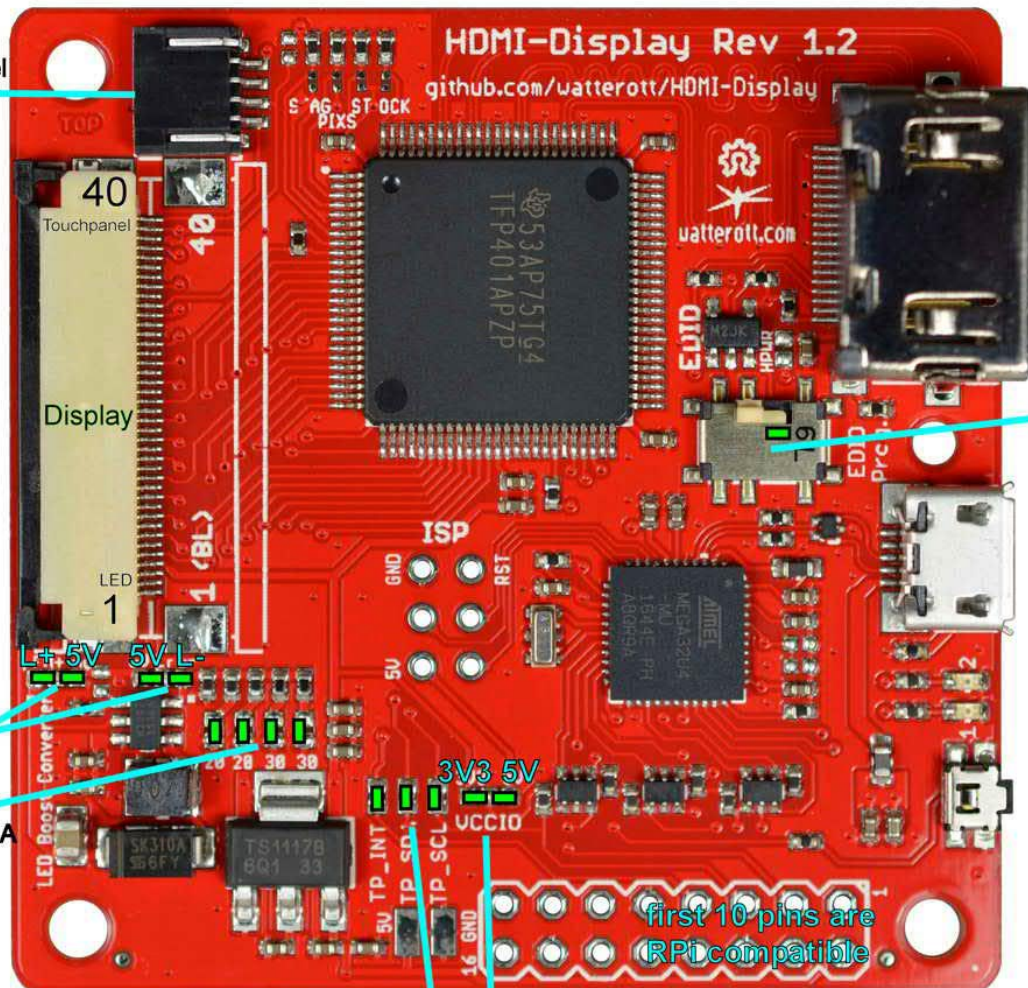
all jumpers open: 20mA  
+20mA +20mA +30mA +30mA

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



<b>Jumper</b>	<b>LED+</b>	<b>LED-</b>	<b>VCCIO</b>	<b>TP_SDA</b>	<b>TP_SCL</b>	<b>TP_INT</b>
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

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 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

