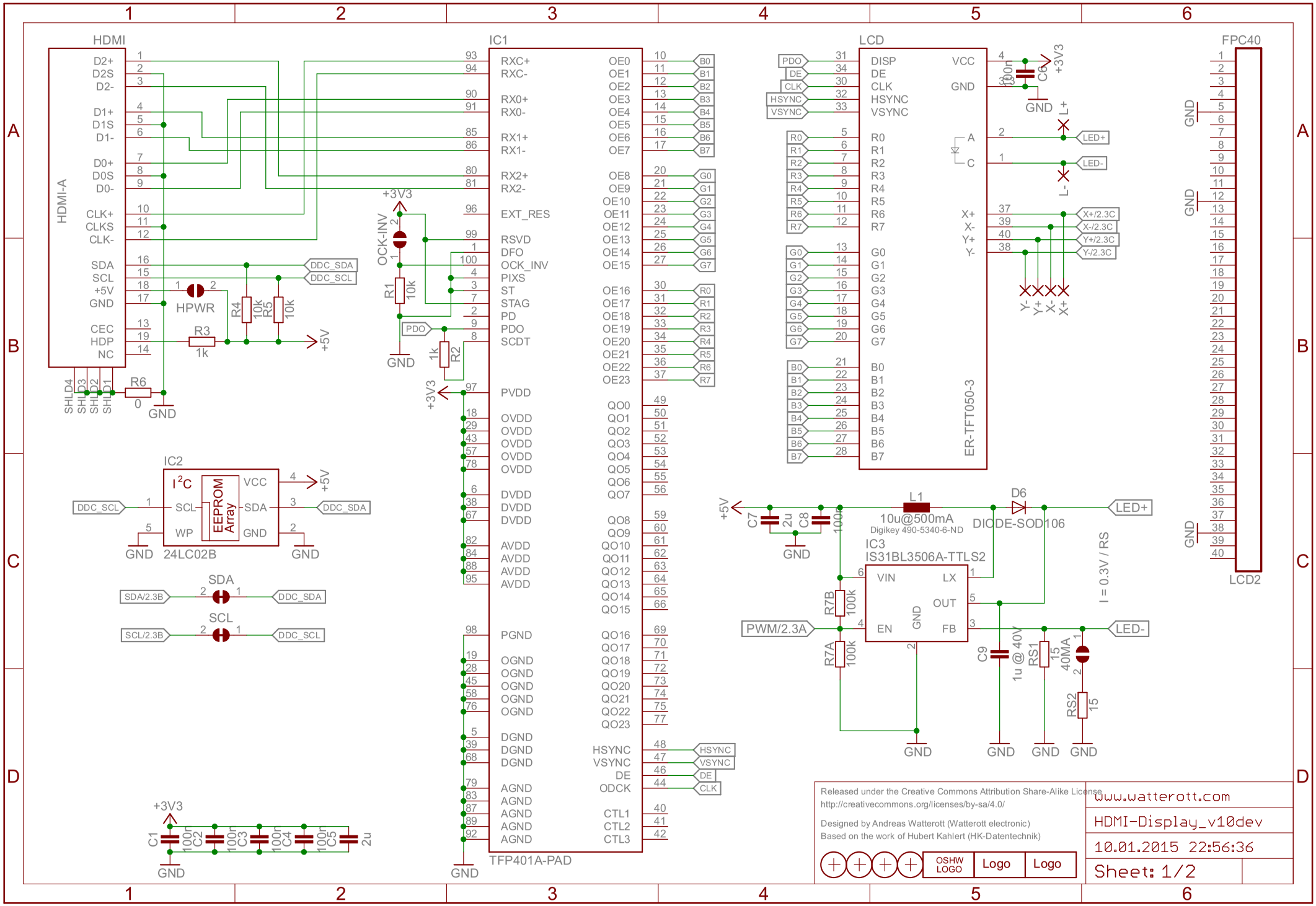
HDMI
HDMI-A
D2+
D2S
D2-
D1+
D1S
D1-
D0+
D0S
D0-
CLK+
CLKS
CLK-
SDA
SCL
+5V
GND
CEC
HDP
NC
SHLD4
SHLD3
SHLD2
SHLD1
HPWR
R3
1k
R4
10k
R5
10k
R6
0
DDC_SDA
DDC_SCL
IC1
TFP401A-PAD
RXC+
RXC-
RX0+
RX0-
RX1+
RX1-
RX2+
RX2-
EXT_RES
RSVD
DFO
OCK_INV
PIXS
ST
STAG
PD
PDO
SCDT
PVDD
OVDD
DVDD
AVDD
PGND
OGND
DGND
AGND
OE0
OE1
OE2
OE3
OE4
OE5
OE6
OE7
OE8
OE9
OE10
OE11
OE12
OE13
OE14
OE15
OE16
OE17
OE18
OE19
OE20
OE21
OE22
OE23
QO0
QO1
QO2
QO3
QO4
QO5
QO6
QO7
QO8
QO9
QO10
QO11
QO12
QO13
QO14
QO15
QO16
QO17
QO18
QO19
QO20
QO21
QO22
QO23
HSYNC
VSYNC
DE
ODCK
CTL1
CTL2
CTL3
B0
B1
B2
B3
B4
B5
B6
B7
G0
G1
G2
G3
G4
G5
G6
G7
R0
R1
R2
R3
R4
R5
R6
R7
OCK-INV
R1
10k
R2
1k
+3V3
GND
IC2
I²C
EEPROM Array
VCC
SCL
SDA
WP
GND
24LC02B
SDA
SCL
SDA/2.3B
SCL/2.3B
C1
100n
C2
100n
C3
100n
C4
100n
C5
2u
LCD
ER-TFT050-3
DISP
DE
CLK
HSYNC
VSYNC
VCC
GND
PDO
C6
100n
LED+
LED-
L+
L-
X+
X-
Y+
Y-
X+/2.3C
X-/2.3C
Y+/2.3C
Y-/2.3C
FPC40
LCD2
L1
10u@500mA
Digikey 490-5340-6-ND
D6
DIODE-SOD106
C7
2u
C8
100n
IC3
IS31BL3506A-TTLS2
VIN
LX
OUT
EN
GND
FB
R7B
100k
R7A
100k
PWM/2.3A
C9
1u @ 40V
RS1
15
40MA
RS2
15
I = 0.3V / RS
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Designed by Andreas Watterott (Watterott electronic)
Based on the work of Hubert Kahlert (HK-Datentechnik)
OSHW LOGO
Logo
Logo
www.watterott.com
HDMI-Display_v10dev
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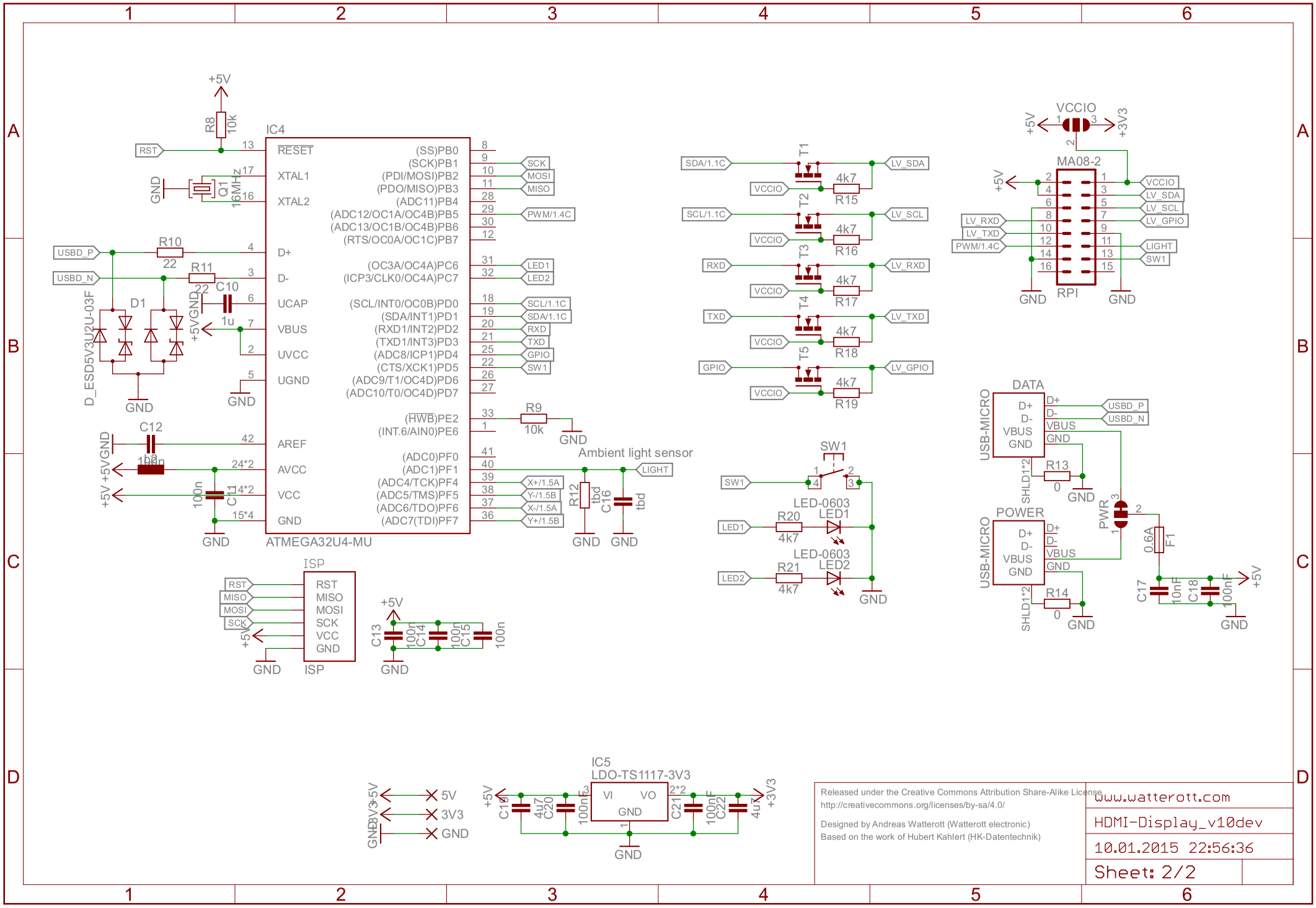
Sheet: 1/2



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HDMI-Display_v10dev

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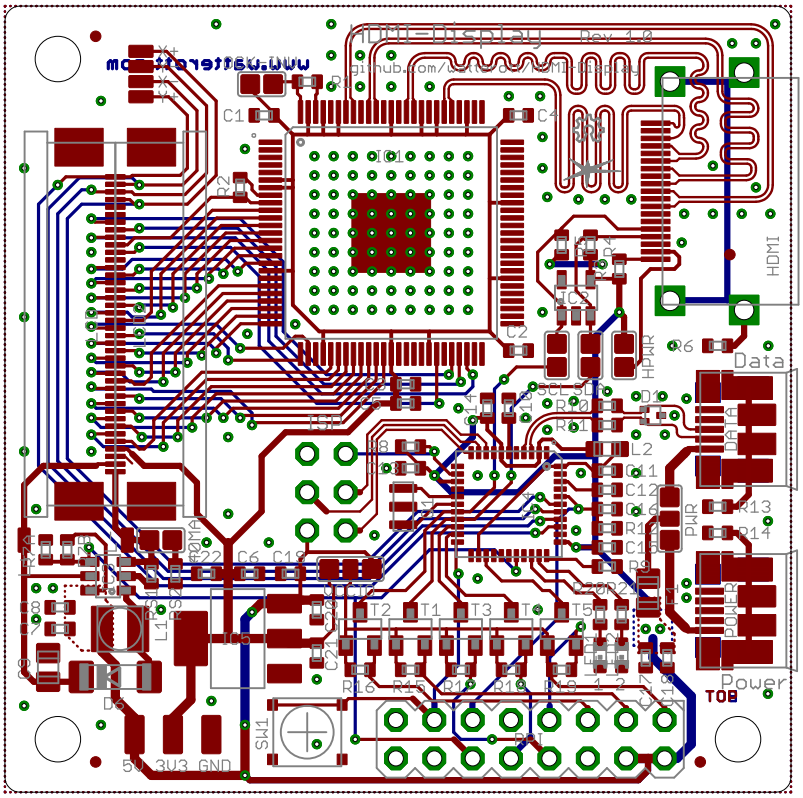
Sheet: 2/2


HDMI
Data
Power
TOP
5V 3V3 GND