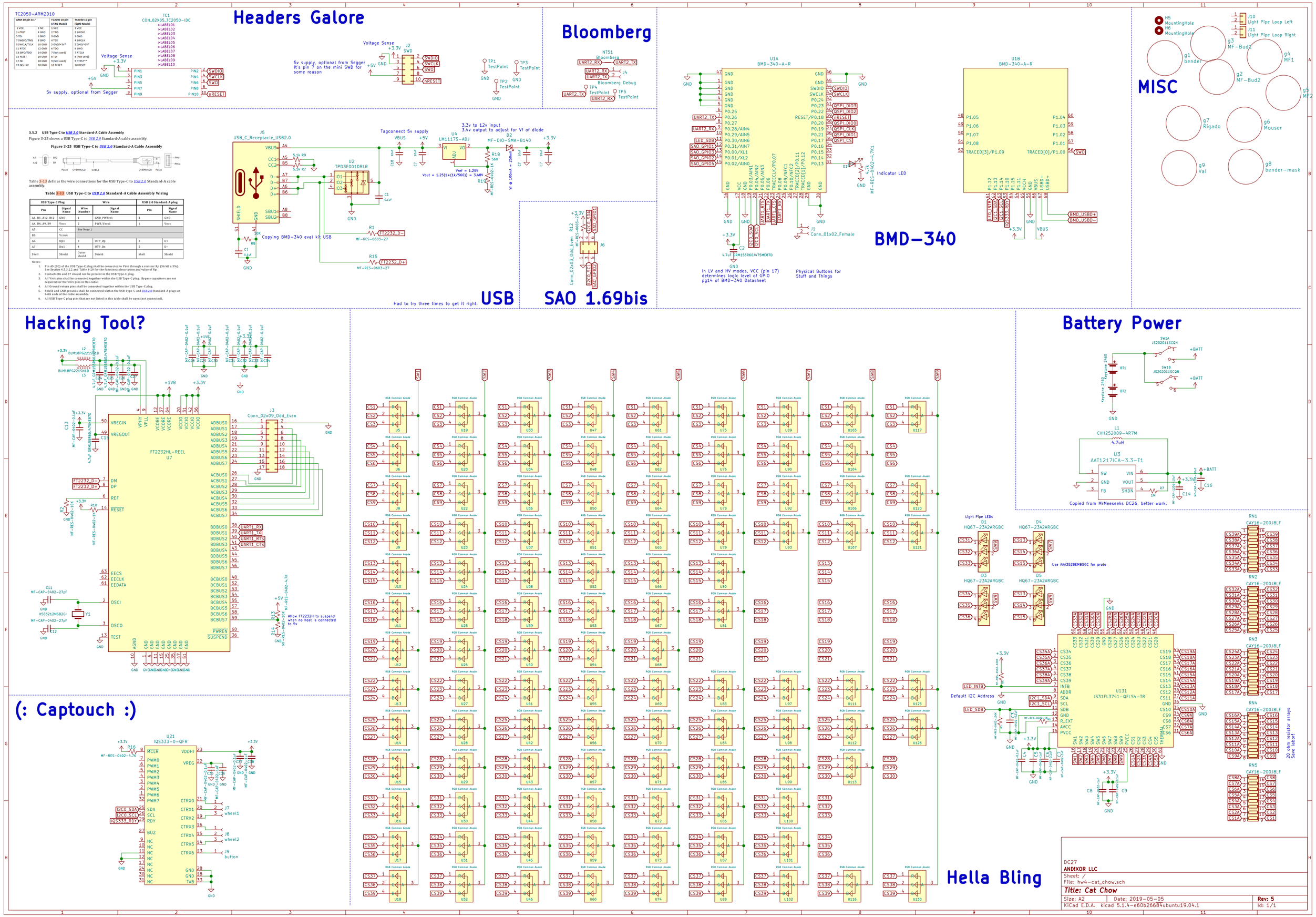
Headers Galore
Bloomberg
MISC
USB
SAO 1.69bis
BMD-340
Hacking Tool?
Battery Power
(: Captouch :)
Hella Bling
TC2050-ARM2010
TC1
CON_02X05_TC2050-IDC
J2
SWD
Voltage Sense
+3.3V
5v supply, optional from Segger
5v supply, optional from Segger It's pin 7 on the mini SWD for some reason
TP1 TestPoint
TP2 TestPoint
TP3 TestPoint
NT51
Bloomberg
J4
Bloomberg Debug
TP4 TestPoint
TP5 TestPoint
H5 MountingHole
H6 MountingHole
J10 Light Pipe Loop Left
J11 Light Pipe Loop Right
g1 bender
g2 MF-Bud2
g3 MF-Bud1
g4 MF1
g5 MF2
g6 Mouser
g7 Rigado
g8 bender-mask
g9 Val
U1A BMD-340-A-R
U1B BMD-340-A-R
Indicator LED
J1 Conn_01x02_Female
In LV and HV modes, VCC (pin 17) determines logic level of GPIO pg14 of BMD-340 Datasheet
Physical Buttons for Stuff and Things
3.5.2 USB Type-C to USB 2.0 Standard-A Cable Assembly
Figure 3-25 shows a USB Type-C to USB 2.0 Standard-A cable assembly.
Figure 3-25 USB Type-C to USB 2.0 Standard-A Cable Assembly
Table 3-13 defines the wire connections for the USB Type-C to USB 2.0 Standard-A cable assembly.
Table 3-13 USB Type-C to USB 2.0 Standard-A Cable Assembly Wiring
USB Type-C Plug | Wire | USB 2.0 Standard-A plug
Pin | Signal Name | Wire Number | Signal Name | Pin | Signal Name
A1, B1, A12, B12 | GND | 1 | GND_PWRet1 | 4 | GND
A4, B4, A9, B9 | Vnrs | 2 | PWR_Vnrs1 | 1 | Vnrs
A5 | CC | See Note 1
B5 | Vconn
A6 | Dp1 | 3 | UTP_Dp | 3 | D+
A7 | Dn1 | 4 | UTP_Dn | 2 | D−
Shell | Shield | Outer shield | Shield | Shell | Shield
Notes:
1. Pin A5 (CC) of the USB Type-C plug shall be connected to Vnrs through a resistor Rp (56 kΩ ± 5%). See Section 4.5.3.2.2 and Table 4-20 for the functional description and value of Rp.
2. Contacts B6 and B7 should not be present in the USB Type-C plug.
3. All Vnrs pins shall be connected together within the USB Type-C plug. Bypass capacitors are not required for the Vnrs pins in this cable.
4. All Ground return pins shall be connected together within the USB Type-C plug.
5. Shield and GND grounds shall be connected within the USB Type-C and USB 2.0 Standard-A plugs on both ends of the cable assembly.
6. All USB Type-C plug pins that are not listed in this table shall be open (not connected).
J5 USB_C_Receptacle_USB2.0
Tagconnect 5v supply
U4 LM1117S-ADJ
3.3v to 12v input
3.4v output to adjust for Vf of diode
D2 MF-DIO-SMA-B140
U2 TPD3E001DRLR
Vref = 1.25V
Vout = 1.25(1+(1k/560)) = 3.48V
Vf @ 100mA = 250mV
Copying BMD-340 eval kit USB
Had to try three times to get it right.
Conn_02x03_Odd_Even
J6
FT2232HL-REEL U7
J3 Conn_02x09_Odd_Even
Allow FT2232H to suspend when no host is connected to 5v
IQS333-Q-QFR U21
wheel1
wheel2
button
SW1A JS202011SCQN
SW1B JS202011SCQN
Keystone 2460
L1 CVH252009-4R7M
U3 AAT1217ICA-3.3-T1
Copied from MrMeeseeks DC26, better work.
Light Pipe LEDs
D1 HQ67-23A2ARGBC
D4 HQ67-23A2ARGBC
D3 HQ67-23A2ARGBC
D5 HQ67-23A2ARGBC
Use AAA352BEMBSGC for proto
U131 IS31FL3741-QFLS4-TR
Default I2C Address
RN1 CAY16-200JBLF
RN2 CAY16-200JBLF
RN3 CAY16-200JBLF
RN4 CAY16-200JBLF
RN5 CAY16-200JBLF
20 ohm resistor arrays Save labor!
DC27
ANDIXOR LLC
Sheet: /
File: hw4-cat_chow.sch
Title: Cat Chow
Size: A2
Date: 2019-05-05
Rev: 5
KiCad E.D.A. kicad 5.1.4-e60b26684ubuntu19.04.1
Id: 1/1