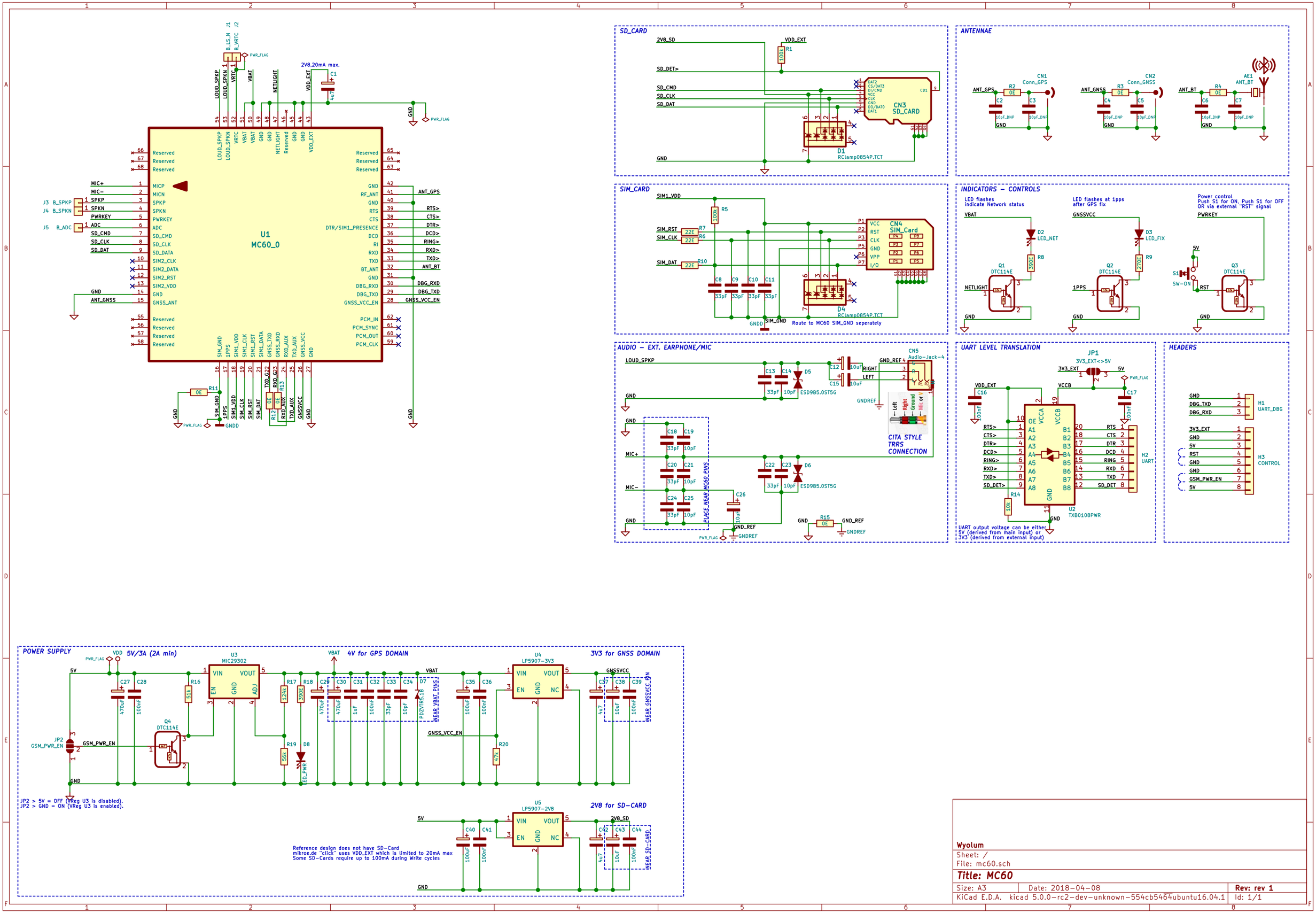
U1
MC60_0
SD_CARD
CN3
SD_CARD
D1
RClamp0854P.TCT
ANTENNAE
CN1
Conn_GPS
CN2
Conn_GNSS
AE1
ANT_BT
SIM_CARD
CN4
SIM_Card
D4
RClamp0854P.TCT
Route to MC60 SIM_GND seperately
INDICATORS – CONTROLS
LED flashes
indicate Network status
LED flashes at 1pps
after GPS fix
Power control
Push S1 for ON, Push S1 for OFF
OR via external "RST" signal
D2
LED_NET
D3
LED_FIX
Q1
DTC114E
Q2
DTC114E
Q3
DTC114E
AUDIO – EXT. EARPHONE/MIC
CN5
Audio-Jack-4
CITA STYLE
TRRS
CONNECTION
PLACE NEAR MC60 PINS
UART LEVEL TRANSLATION
JP1
3V3_EXT<>5V
U2
TXB0108PWR
H2
UART
UART output voltage can be either
5V (derived from main input) or
3V3 (derived from external input)
HEADERS
H1
UART_DBG
H3
CONTROL
POWER SUPPLY
5V/3A (2A min)
U3
MIC29302
4V for GPS DOMAIN
U4
LP5907-3V3
3V3 for GNSS DOMAIN
Q4
DTC114E
JP2
GSM_PWR_EN
JP2 > 5V = OFF (VReg U3 is disabled).
JP2 > GND = ON (VReg U3 is enabled).
U5
LP5907-2V8
2V8 for SD-CARD
Reference design does not have SD-Card
mikroe.de "click" uses VDD_EXT which is limited to 20mA max
Some SD-Cards require up to 100mA during Write cycles
Wyolum
Sheet: /
File: mc60.sch
Title: MC60
Size: A3
Date: 2018-04-08
Rev: rev 1
KiCad E.D.A. kicad 5.0.0-rc2-dev-unknown-554cb5464ubuntu16.04.1
Id: 1/1