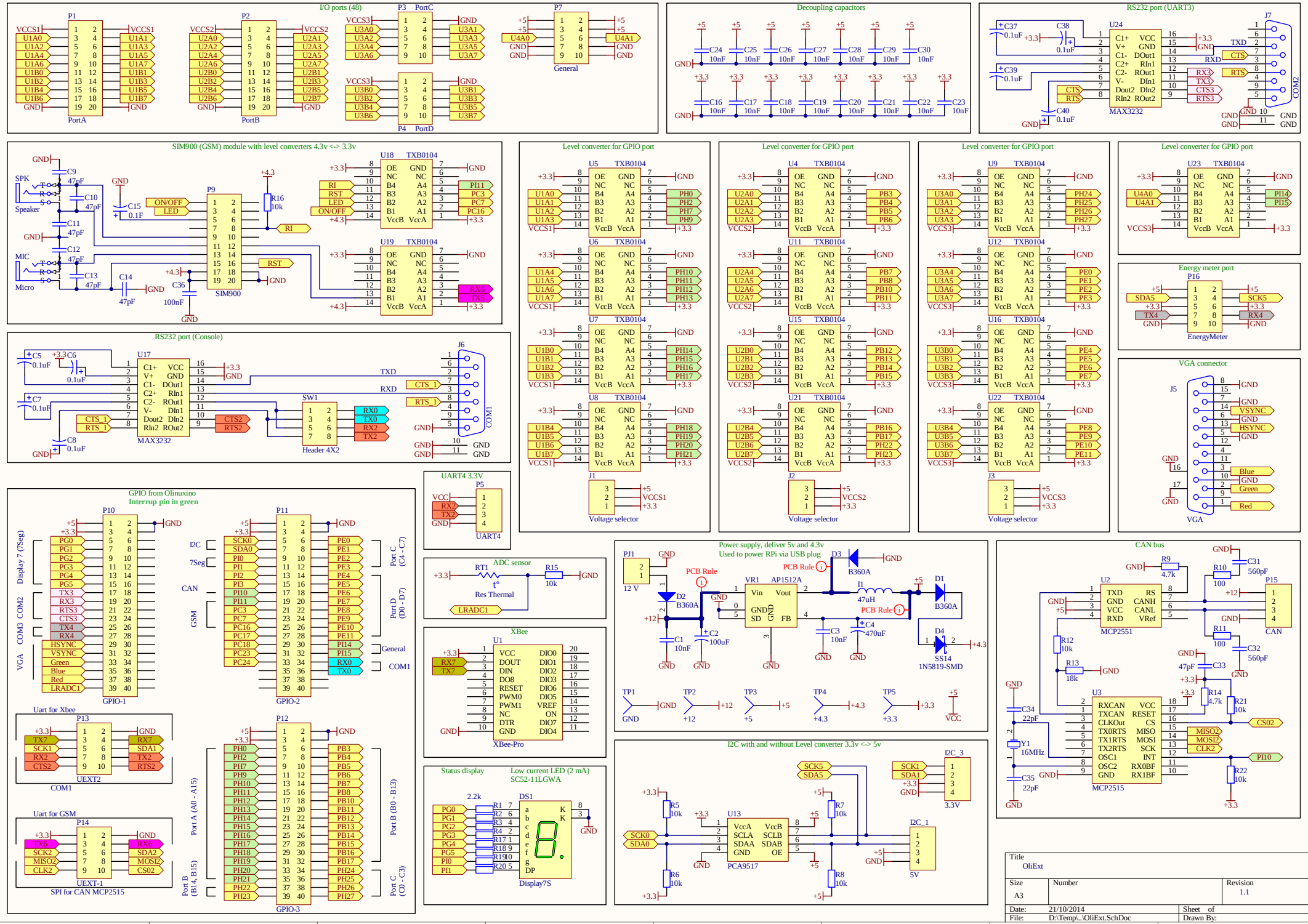
I/O ports (48)
P1 PortA
P2 PortB
P3 PortC
P4 PortD
P7 General
Decoupling capacitors
RS232 port (UART3)
U24 MAX3232
J7 COM2
SIM900 (GSM) module with level converters 4.3v <-> 3.3v
U18 TXB0104
U19 TXB0104
P9 SIM900
Speaker
Micro
RS232 port (Console)
U17 MAX3232
J6 COM1
SW1 Header 4X2
Level converter for GPIO port
U5 TXB0104
U6 TXB0104
U7 TXB0104
U8 TXB0104
J1 Voltage selector
U4 TXB0104
U11 TXB0104
U15 TXB0104
U21 TXB0104
J2 Voltage selector
U9 TXB0104
U12 TXB0104
U16 TXB0104
U22 TXB0104
J3 Voltage selector
U23 TXB0104
Energy meter port
P16 EnergyMeter
VGA connector
J5 VGA
UART4 3.3V
P5 UART4
GPIO from Olinuxino
Interrup pin in green
P10 GPIO-1
P11 GPIO-2
P12 GPIO-3
Uart for Xbee
P13 UEXT2 COM1
Uart for GSM
P14 UEXT-1 SPI for CAN MCP2515
ADC sensor
RT1 Res Thermal
R15 10k
LRADC1
XBee
U1 XBee-Pro
Status display
Low current LED (2 mA)
SC52-11LGWA
DS1 Display7S
Power supply, deliver 5v and 4.3v
Used to power RPi via USB plug
PJ1 12 V
PCB Rule
D2 B360A
D3 B360A
VR1 AP1512A
I1 47uH
D1 B360A
D4 SS14 1N5819-SMD
C1 10nF
C2 100uF
C3 10nF
C4 470uF
TP1 TP2 TP3 TP4 TP5
I2C with and without Level converter 3.3v <-> 5v
U13 PCA9517
I2C_3 3.3V
I2C_1 5V
CAN bus
U2 MCP2551
P15 CAN
U3 MCP2515
Y1 16MHz
Title
OliExt
Size A3
Number
Revision 1.1
Date: 21/10/2014
Sheet of
File: D:\Temp\..\OliExt.SchDoc
Drawn By: