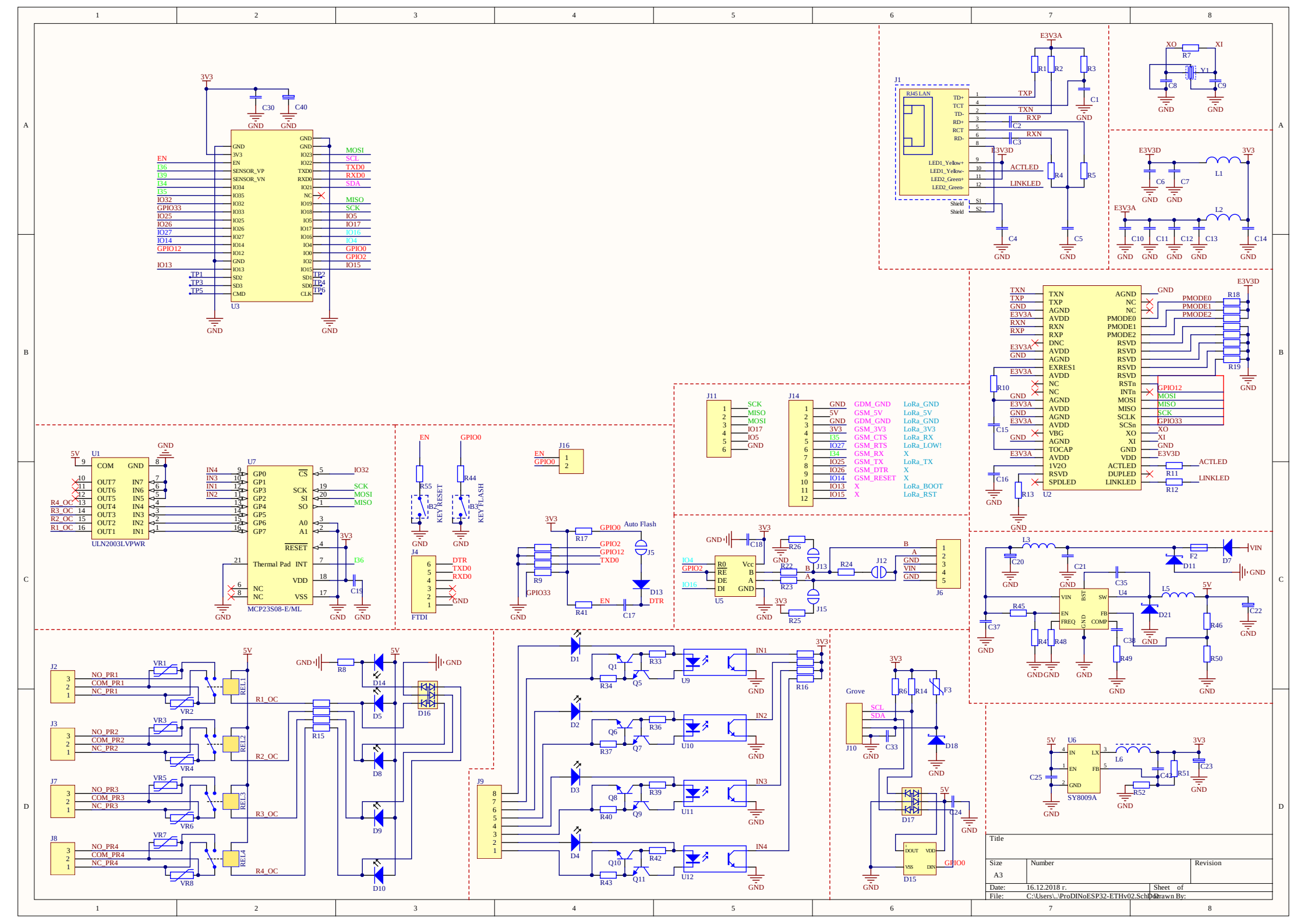
3V3
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C40
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GND
U3
EN
I36
I39
I34
I35
IO32
GPIO33
IO25
IO26
IO27
IO14
GPIO12
IO13
TP1
TP3
TP5
MOSI
SCL
TXD0
RXD0
SDA
MISO
SCK
IO5
IO17
IO16
IO4
GPIO0
GPIO2
IO15
TP2
TP4
TP6
E3V3A
J1
RJ45 LAN
TXP
TXN
RXP
RXN
ACTLED
LINKLED
R1
R2
R3
R4
R5
C1
C2
C3
C4
C5
XO
XI
R7
Y1
C8
C9
E3V3D
C6
C7
L1
L2
C10
C11
C12
C13
C14
TXN
TXP
AGND
AVDD
RXN
RXP
DNC
EXRES1
NC
RSVD
RSTn
INTn
MOSI
MISO
SCLK
SCSn
VBG
TOCAP
1V2O
SPDLED
PMODE0
PMODE1
PMODE2
DUPLED
LINKLED
GPIO12
GPIO33
R18
R19
R10
R11
R12
R13
C15
C16
U2
5V
U1
COM
OUT7
OUT6
OUT5
OUT4
OUT3
OUT2
OUT1
IN7
IN6
IN5
IN4
IN3
IN2
IN1
R4_OC
R3_OC
R2_OC
R1_OC
ULN2003LVPWR
U7
IN4
IN3
IN1
IN2
GP0
GP1
GP3
GP2
GP4
GP5
GP6
GP7
CS
SCK
SI
SO
A0
A1
RESET
Thermal Pad
INT
VDD
VSS
NC
MCP23S08-E/ML
IO32
SCK
MOSI
MISO
I36
C19
EN
GPIO0
R55
R44
B2
B3
KEY RESET
KEY FLASH
J4
DTR
TXD0
RXD0
FTDI
J16
R17
R9
R41
C17
Auto Flash
J5
D13
DTR
J11
SCK
MISO
MOSI
IO17
IO5
J14
GDM_GND
GSM_5V
GSM_3V3
GSM_CTS
GSM_RTS
GSM_RX
GSM_TX
GSM_DTR
GSM_RESET
LoRa_GND
LoRa_5V
LoRa_3V3
LoRa_RX
LoRa_LOW!
LoRa_TX
LoRa_BOOT
LoRa_RST
IO4
GPIO2
IO16
R0
RE
DE
DI
Vcc
B
A
U5
C18
R26
R22
R23
J13
R24
J12
J6
J15
R25
L3
C20
C21
C35
F2
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VIN
GND
U4
VIN
BST
SW
EN
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FREQ
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COMP
L5
D21
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R46
R47
R48
R49
R50
C37
C38
C22
J2
J3
J7
J8
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NC_PR1
NO_PR2
COM_PR2
NC_PR2
NO_PR3
COM_PR3
NC_PR3
NO_PR4
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NC_PR4
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VR5
VR6
VR7
VR8
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REL4
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SCL
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R52
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Revision
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16.12.2018 г.
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Drawn By: