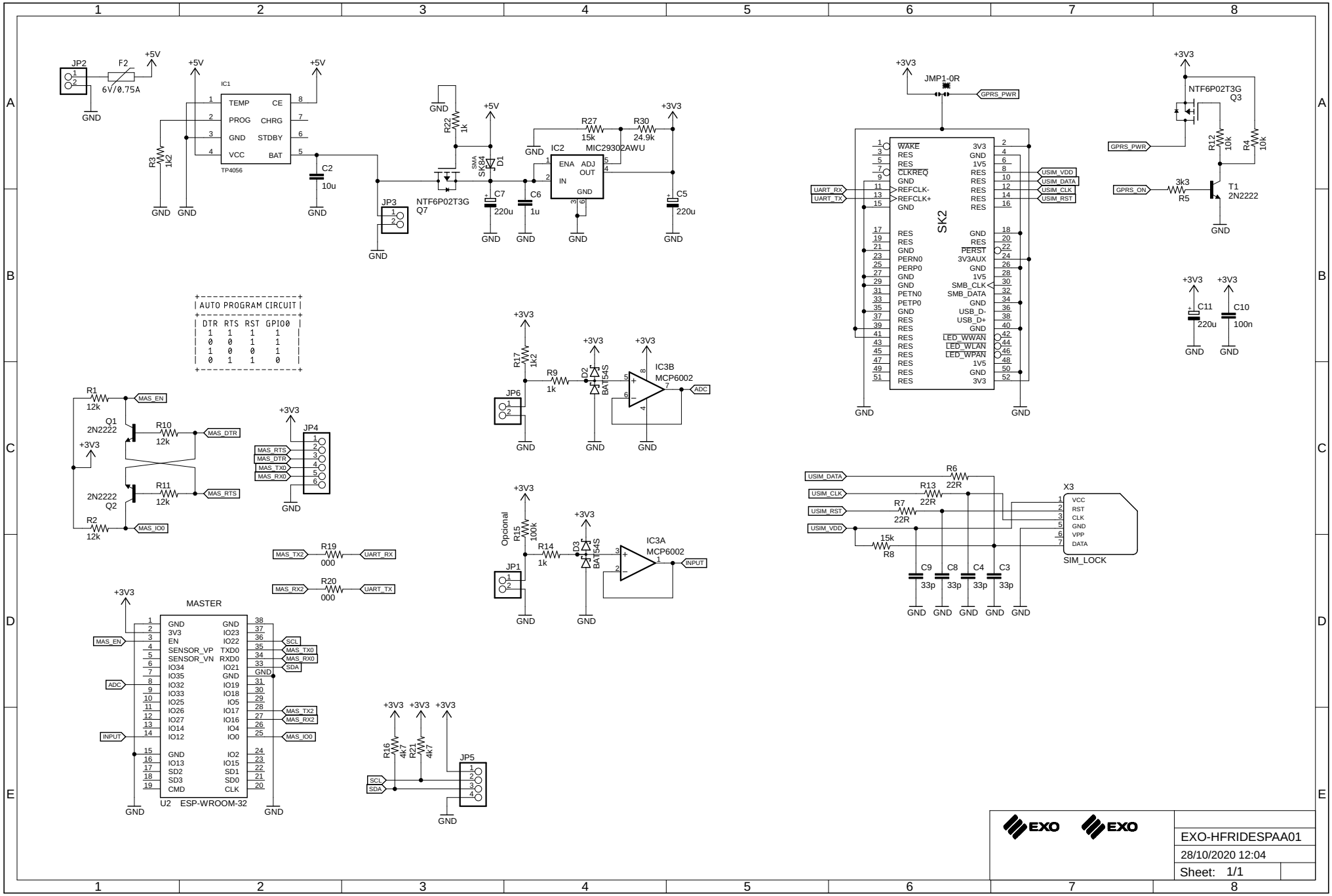
JP2
F2
6V/0.75A
+5V
GND
IC1
TEMP
PROG
GND
VCC
CE
CHRG
STDBY
BAT
TP4056
R3
1K2
C2
10u
R22
1k
SMA
SK64
D1
NTF6P02T3G
Q7
JP3
C7
220u
C6
1u
IC2
MIC29302AWU
ENA
ADJ
OUT
IN
R27
15k
R30
24.9k
+3V3
C5
220u
AUTO PROGRAM CIRCUIT
DTR RTS RST GPIO0
1 1 1 1
0 0 1 1
1 0 0 1
0 1 1 0
R1
12k
MAS_EN
Q1
2N2222
R10
12k
MAS_DTR
2N2222
Q2
R11
12k
MAS_RTS
R2
12k
MAS_IO0
JP4
MAS_RTS
MAS_DTR
MAS_TX0
MAS_RX0
R19
000
MAS_TX2
UART_RX
R20
000
MAS_RX2
UART_TX
MASTER
GND
3V3
EN
SENSOR_VP
SENSOR_VN
IO34
IO35
IO32
IO33
IO25
IO26
IO27
IO14
IO12
GND
IO13
SD2
SD3
CMD
GND
IO23
IO22
TXD0
RXD0
IO21
GND
IO19
IO18
IO5
IO17
IO16
IO4
IO0
IO2
IO15
SD1
SD0
CLK
SCL
SDA
ADC
INPUT
U2 ESP-WROOM-32
R16
4k7
R21
4k7
JP5
R17
1k2
R9
1k
D2
BAT54S
JP6
IC3B
MCP6002
ADC
Opcional
R15
100k
R14
1k
D3
BAT54S
JP1
IC3A
MCP6002
INPUT
JMP1-0R
GPRS_PWR
SK2
WAKE
CLKREQ
REFCLK-
REFCLK+
PERN0
PERP0
PETN0
PETP0
PERST
3V3AUX
SMB_CLK
SMB_DATA
USB_D-
USB_D+
LED_WWAN
LED_WLAN
LED_WPAN
1V5
3V3
UART_RX
UART_TX
USIM_VDD
USIM_DATA
USIM_CLK
USIM_RST
NTF6P02T3G
Q3
R12
10k
R4
10k
GPRS_ON
3k3
R5
T1
2N2222
C11
220u
C10
100n
R6
22R
R13
22R
R7
22R
15k
R8
X3
VCC
RST
CLK
GND
VPP
DATA
SIM_LOCK
C9
33p
C8
33p
C4
33p
C3
33p
EXO
EXO-HFRIDESPAA01
28/10/2020 12:04
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