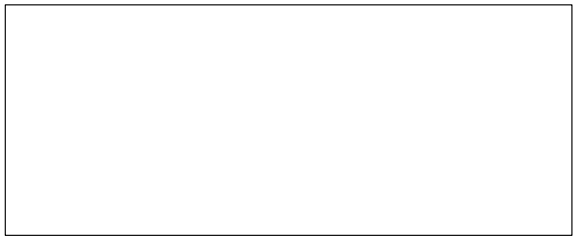
Main



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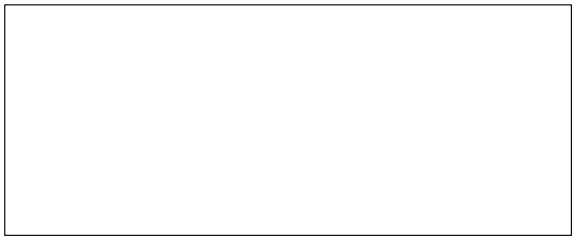
Interfaces



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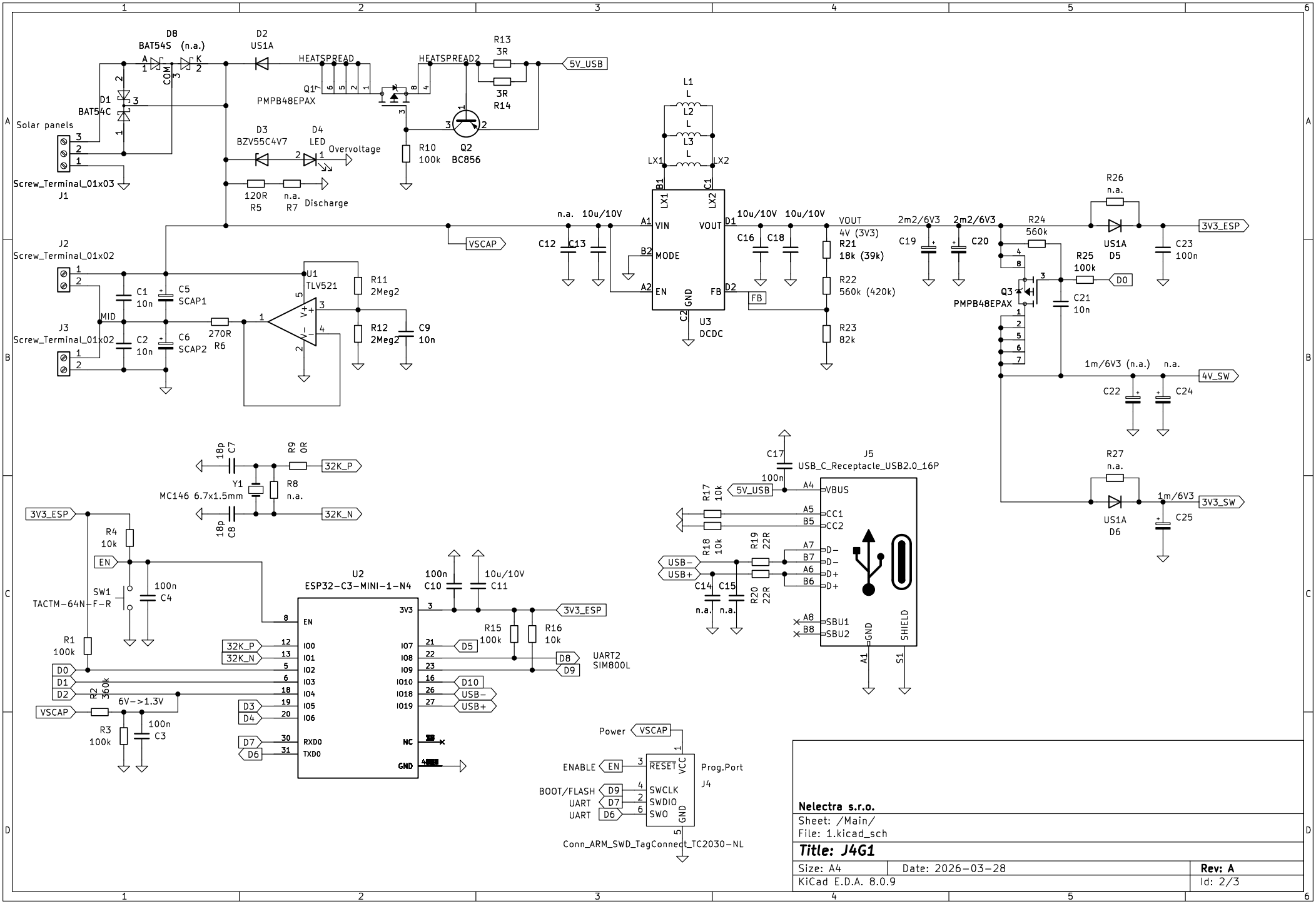
Title: J4G1

Size: A4	Date: 2026-03-28	**Rev: A**
KiCad E.D.A. 8.0.9		Id: 1/3


D8
BAT54S (n.a.)
D2
US1A
HEATSPREAD
HEATSPREAD2
R13
3R
5V_USB
D1
BAT54C
Q1
PMPB48EPAX
3R
R14
Solar panels
D3
BZV55C4V7
D4
LED
Overvoltage
R10
100k
Q2
BC856
Screw_Terminal_01x03
J1
120R
R5
n.a.
R7
Discharge
L1
L
L2
L
L3
L
LX1
LX2
B1
C1
A1
VIN
VOUT
B2
MODE
A2
EN
GND
FB
D2
C2
U3
DCDC
n.a.
10u/10V
C12
C13
10u/10V
10u/10V
C16
C18
VOUT
4V (3V3)
R21
18k (39k)
R22
560k (420k)
R23
82k
VSCAP
2m2/6V3
2m2/6V3
C19
C20
R24
560k
R26
n.a.
US1A
D5
R25
100k
D0
C23
100n
3V3_ESP
Q3
PMPB48EPAX
C21
10n
J2
Screw_Terminal_01x02
J3
Screw_Terminal_01x02
MID
C1
10n
C2
10n
C5
SCAP1
C6
SCAP2
270R
R6
U1
TLV521
R11
2Meg2
R12
2Meg2
C9
10n
1m/6V3 (n.a.)
n.a.
4V_SW
C22
C24
R27
n.a.
US1A
D6
1m/6V3
3V3_SW
C25
18p
C7
18p
C8
Y1
MC146 6.7x1.5mm
R9
0R
R8
n.a.
32K_P
32K_N
C17
100n
J5
USB_C_Receptacle_USB2.0_16P
R17
10k
5V_USB
R18
10k
R19
22R
R20
22R
USB−
USB+
C14
n.a.
C15
n.a.
A4
VBUS
A5
CC1
B5
CC2
A7
D−
B7
D−
A6
D+
B6
D+
A8
SBU1
B8
SBU2
A1
GND
S1
SHIELD
3V3_ESP
R4
10k
EN
SW1
TACTM−64N−F−R
100n
C4
R1
100k
D0
D1
D2
R2
360k
6V−>1.3V
VSCAP
R3
100k
100n
C3
U2
ESP32−C3−MINI−1−N4
100n
C10
10u/10V
C11
3V3_ESP
R15
100k
R16
10k
D5
D8
D9
UART2
SIM800L
D10
USB−
USB+
D3
D4
D7
D6
EN
IO0
IO1
IO2
IO3
IO4
IO5
IO6
RXD0
TXD0
3V3
IO7
IO8
IO9
IO10
IO18
IO19
NC
GND
Power
VSCAP
ENABLE
EN
BOOT/FLASH
D9
UART
D7
UART
D6
RESET
SWCLK
SWDIO
SWO
VCC
GND
Prog.Port
J4
Conn_ARM_SWD_TagConnect_TC2030−NL
Nelectra s.r.o.
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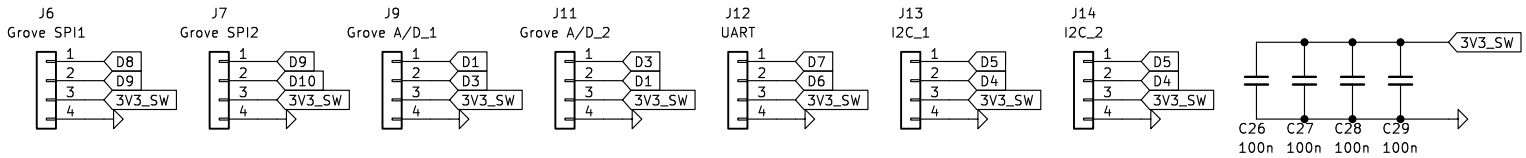
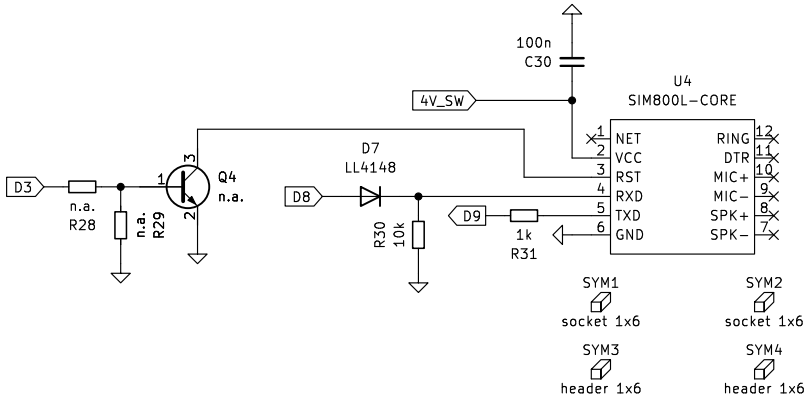
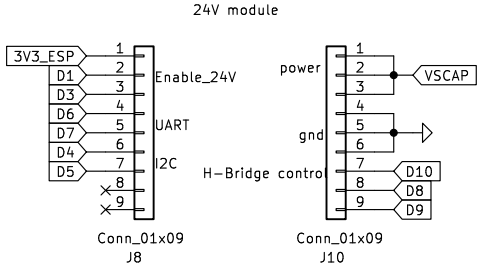
Title: J4G1
Size: A4
Date: 2026−03−28
Rev: A
KiCad E.D.A. 8.0.9
Id: 2/3







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KiCad E.D.A. 8.0.9		Id: 3/3