ICSP

VSS
VDD
MCLR
CLK
DATA

VSS

VPP

U$1 SPDT
1
2
3

R3
10k
A
S
E

D7

R4
10k

VSS

U$2
100

U$3
39pF

VSS

R1
10k

T2
BC547

RS232
TXD   1
DTR   2
VDD   3
CLK   4
CTS   5

R2
1.5k

D6

T1
BC547

VCC

Z=8.1V
D2
LED3
Vpp

D4

D5

D1

C1
100uF

C2
22uF

D8   Z=5.1V

U$4
39pF

VSS

VSS

VSS

	25	9	H
TX	2	3	1
DTR	20	4	2
GND	7	5	3
RTS	4	7	4
CTS	5	8	5

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1N4148

SPDT

100uF

1N4148

BC547

2N4

10k

10k

22uF

39pF

10

39pF

Z=5.1V

1N4148

1N4148

100

1.5k

BC547

5K1

BC547

1N4148

1N4148

100

3dB

101

3dB

5.1K=2

22uF

8

BC547

100uF

1N4148

1N4148

1N4148

10K

10K

1M

4V7

SPDT