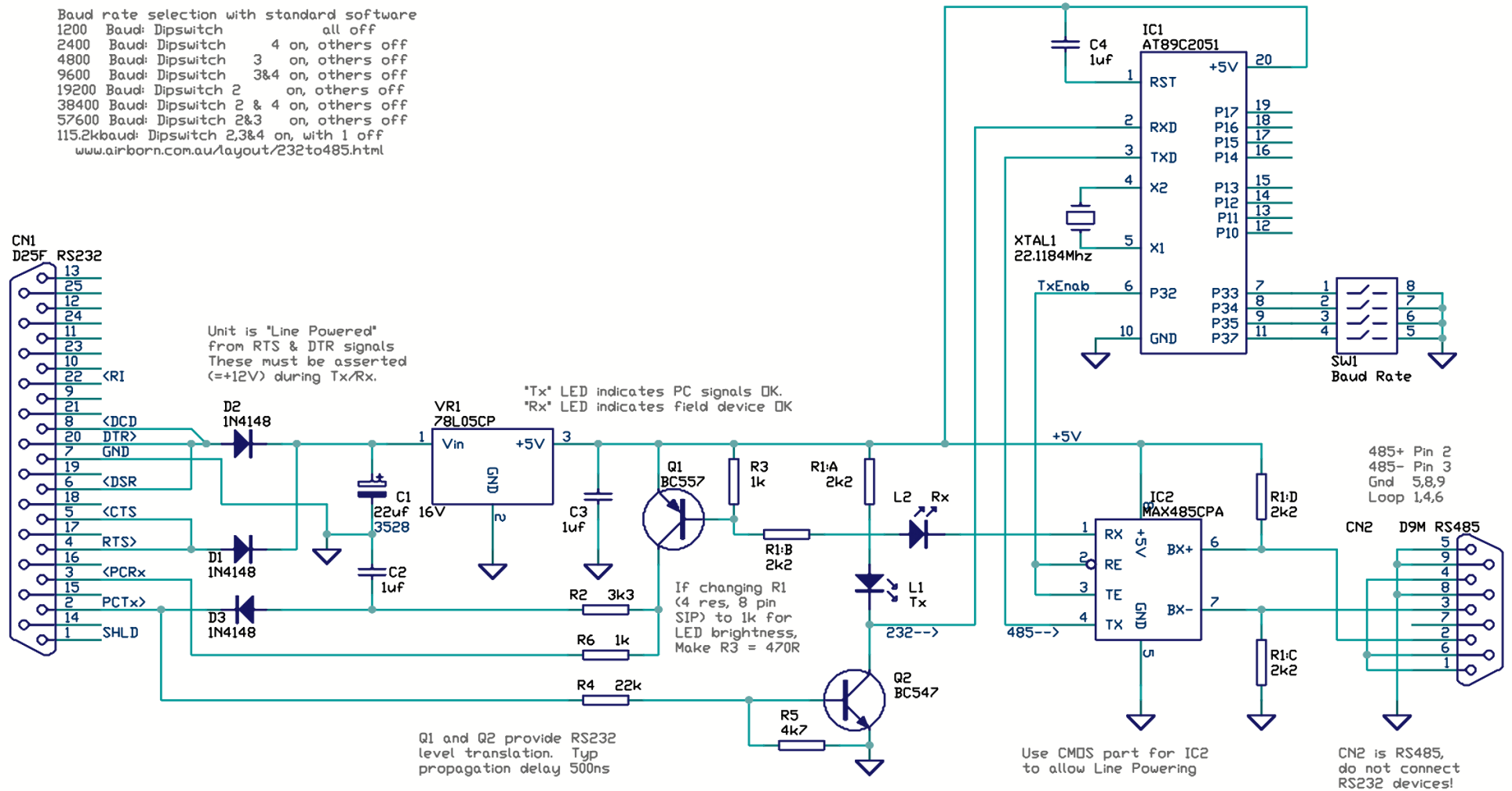
Baud rate selection with standard software
1200 Baud: Dipswitch all off
2400 Baud: Dipswitch 4 on, others off
4800 Baud: Dipswitch 3 on, others off
9600 Baud: Dipswitch 3&4 on, others off
19200 Baud: Dipswitch 2 on, others off
38400 Baud: Dipswitch 2 & 4 on, others off
57600 Baud: Dipswitch 2&3 on, others off
115.2kbaud: Dipswitch 2,3&4 on, with 1 off
www.airborn.com.au/layout/232to485.html
CN1
D25F RS232
<RI
<DCD
DTR>
GND
<DSR
<CTS
RTS>
<PCRx
PCTx>
SHLD
Unit is "Line Powered"
from RTS & DTR signals
These must be asserted
(=+12V) during Tx/Rx.
D2
1N4148
D1
1N4148
D3
1N4148
C1
22uf
16V
3528
C2
1uf
VR1
78L05CP
Vin
+5V
GND
C3
1uf
"Tx" LED indicates PC signals OK.
"Rx" LED indicates field device OK
Q1
BC557
R3
1k
R1:A
2k2
R1:B
2k2
L2 Rx
L1
Tx
232-->
R2 3k3
R6 1k
R4 22k
R5
4k7
Q2
BC547
If changing R1
(4 res, 8 pin
SIP) to 1k for
LED brightness,
Make R3 = 470R
Q1 and Q2 provide RS232
level translation. Typ
propagation delay 500ns
C4
1uf
IC1
AT89C2051
+5V
RST
RXD
TXD
X2
X1
P32
GND
P17
P16
P15
P14
P13
P12
P11
P10
P33
P34
P35
P37
XTAL1
22.1184Mhz
TxEnab
SW1
Baud Rate
+5V
IC2
MAX485CPA
RX
RE
TE
TX
+5V
GND
BX+
BX-
485-->
R1:D
2k2
R1:C
2k2
Use CMOS part for IC2
to allow Line Powering
485+ Pin 2
485- Pin 3
Gnd 5,8,9
Loop 1,4,6
CN2 D9M RS485
CN2 is RS485,
do not connect
RS232 devices!
(C)2006
AirBorn
ELECTRONICS
PCB LAM#1.
AB0603356
Title
232 to 485 Converter
Size
A4
Number
AB0603356
Revision
V3.00a
Date: 25 Jul 2006
Sheet 1 of 1
File: Z:_lauda\asrc\RS485Hub\232to485.sch
Drawn By: sm