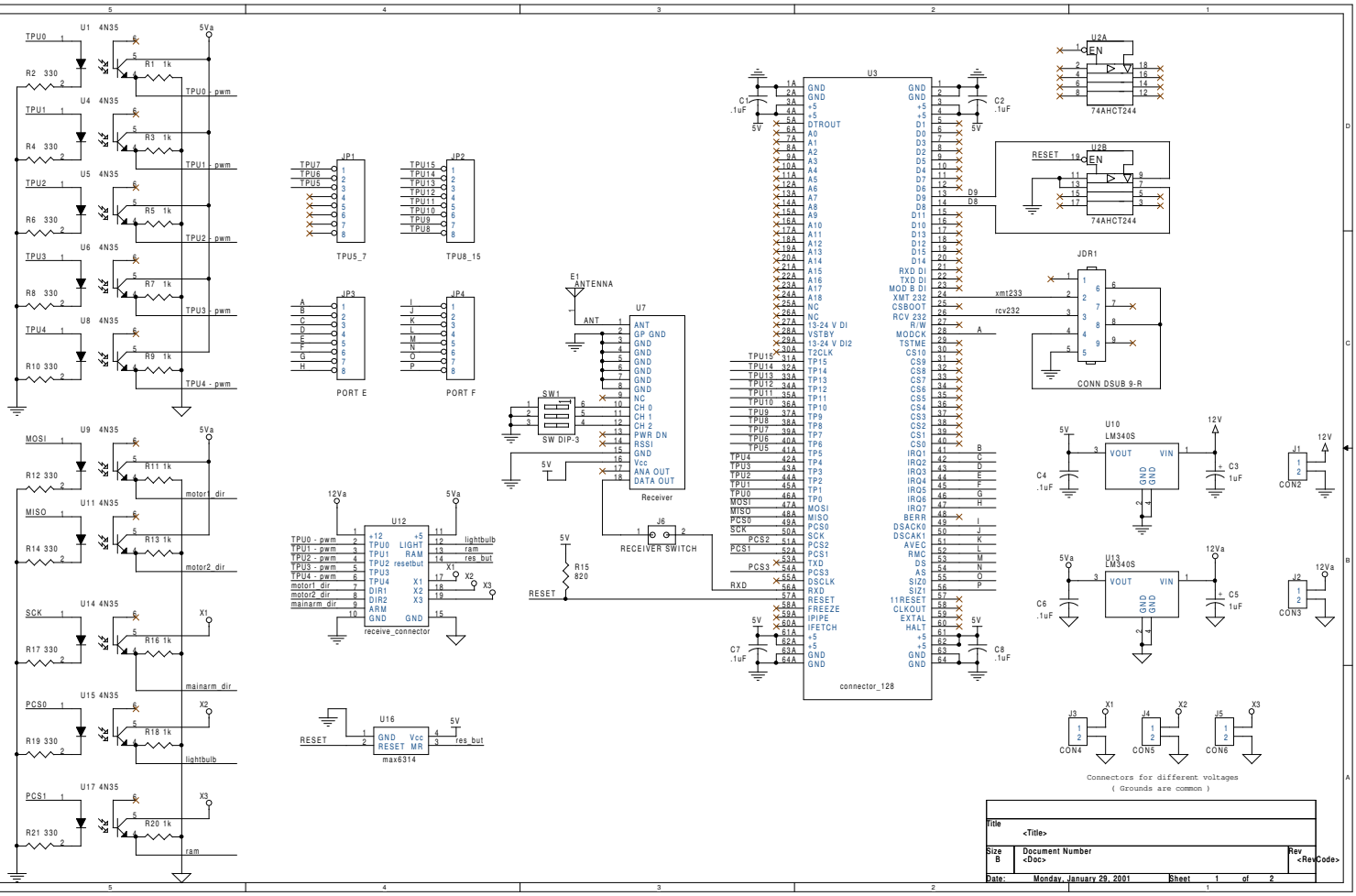
U1 4N35
TPU0
R2 330
R1 1k
5Va
TPU0 - pwm
U4 4N35
TPU1
R4 330
R3 1k
TPU1 - pwm
U5 4N35
TPU2
R6 330
R5 1k
TPU2 - pwm
U6 4N35
TPU3
R8 330
R7 1k
TPU3 - pwm
U8 4N35
TPU4
R10 330
R9 1k
TPU4 - pwm
U9 4N35
MOSI
R12 330
R11 1k
motor1_dir
U11 4N35
MISO
R14 330
R13 1k
motor2_dir
U14 4N35
SCK
R17 330
R16 1k
X1
mainarm_dir
U15 4N35
PCS0
R19 330
R18 1k
X2
lightbulb
U17 4N35
PCS1
R21 330
R20 1k
X3
ram
JP1
TPU7
TPU6
TPU5
TPU5_7
JP2
TPU15
TPU14
TPU13
TPU12
TPU11
TPU10
TPU9
TPU8
TPU8_15
JP3
PORT E
JP4
PORT F
E1
ANTENNA
U7
ANT
GP GND
GND
CH 0
CH 1
CH 2
PWR DN
RSSI
Vcc
ANA OUT
DATA OUT
Receiver
SW1
SW DIP-3
J6
RECEIVER SWITCH
R15
820
RESET
U12
12Va
5Va
TPU0 - pwm
TPU1 - pwm
TPU2 - pwm
TPU3 - pwm
TPU4 - pwm
motor1_dir
motor2_dir
mainarm_dir
+12
TPU0
TPU1
TPU2
TPU3
TPU4
DIR1
DIR2
ARM
GND
+5
LIGHT
RAM
resetbut
X1
X2
X3
lightbulb
ram
res_but
receive_connector
U16
RESET
GND
RESET
Vcc
MR
5V
res_but
max6314
U3
C1
.1uF
C2
.1uF
C7
.1uF
C8
.1uF
connector_128
U2A
74AHCT244
U2B
74AHCT244
JDR1
xmt233
rcv232
CONN DSUB 9-R
U10
LM340S
C3
1uF
C4
.1uF
J1
CON2
U13
LM340S
C5
1uF
C6
.1uF
J2
CON3
J3
CON4
J4
CON5
J5
CON6
Connectors for different voltages
(Grounds are common)
Title
<Title>
Size
B
Document Number
<Doc>
Rev
<RevCode>
Date:
Monday, January 29, 2001
Sheet
1
of
2