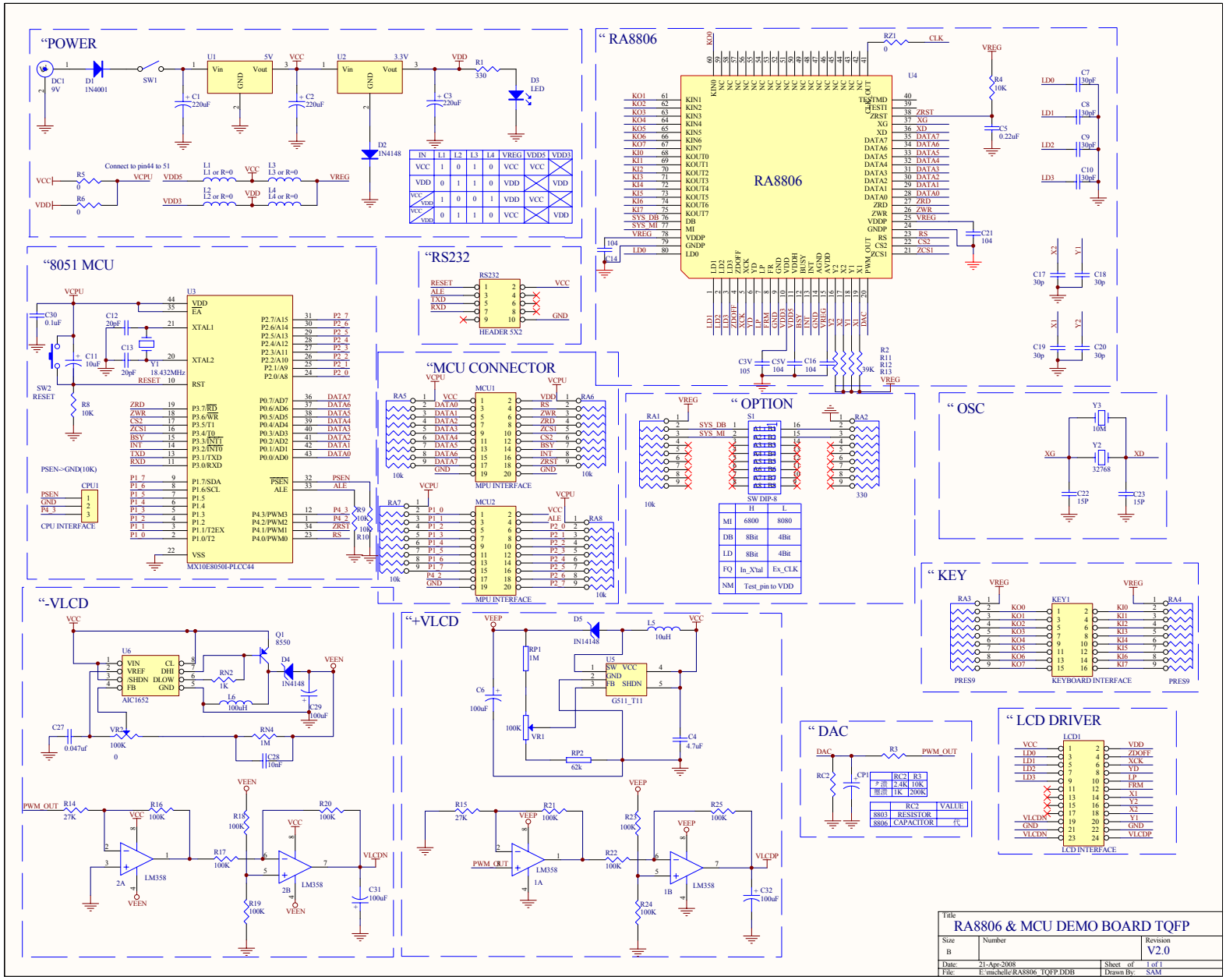
"POWER
DC1 9V
D1 1N4001
SW1
U1 5V
U2 3.3V
Vin Vout GND
C1 220uF
C2 220uF
C3 220uF
VCC
VDD
R1 330
D3 LED
D2 1N4148
Connect to pin44 to 51
R5 0
R6 0
VCPU
VDD5
VDD3
VREG
L1 L1 or R=0
L2 L2 or R=0
L3 L3 or R=0
L4 L4 or R=0
IN L1 L2 L3 L4 VREG VDD5 VDD3
VCC 1 0 1 0 VCC VCC
VDD 0 1 1 0 VDD VDD
VCC/VDD 1 0 0 1 VDD VCC
VCC/VDD 0 1 1 0 VCC VDD
" RA8806
U4
RA8806
RZ1 0
CLK
R4 10K
C5 0.22uF
C21 104
C14 104
C3V 105
C5V 104
C16 104
R2 39K
R11
R12
R13
C7 30pF
C8 30pF
C9 30pF
C10 30pF
C17 30p
C18 30p
C19 30p
C20 30p
X1
X2
Y1
Y2
"8051 MCU
U3
MX10E8050I-PLCC44
VDD
EA
XTAL1
XTAL2
RST
VSS
P2.7/A15
P2.6/A14
P2.5/A13
P2.4/A12
P2.3/A11
P2.2/A10
P2.1/A9
P2.0/A8
P0.7/AD7
P0.6/AD6
P0.5/AD5
P0.4/AD4
P0.3/AD3
P0.2/AD2
P0.1/AD1
P0.0/AD0
P3.7/RD
P3.6/WR
P3.5/T1
P3.4/T0
P3.3/INT1
P3.2/INT0
P3.1/TXD
P3.0/RXD
P1.7/SDA
P1.6/SCL
P1.5
P1.4
P1.3
P1.2
P1.1/T2EX
P1.0/T2
P4.3/PWM3
P4.2/PWM2
P4.1/PWM1
P4.0/PWM0
PSEN
ALE
C30 0.1uF
C11 10uF
C12 20pF
C13 20pF
Y1 18.432MHz
SW2 RESET
R8 10K
PSEN->GND(10K)
CPU1
CPU INTERFACE
R9 10K
R10 10K
"RS232
RS232
HEADER 5X2
RESET
ALE
TXD
RXD
VCC
GND
"MCU CONNECTOR
MCU1
MCU2
MPU INTERFACE
RA5
RA6
RA7
RA8
10k
" OPTION
S1
SW DIP-8
RA1
RA2
330
SYS_DB
SYS_MI
H L
MI 6800 8080
DB 8Bit 4Bit
LD 8Bit 4Bit
FQ In_Xtal Ex_CLK
NM Test_pin to VDD
" OSC
Y3 10M
Y2 32768
XG
XD
C22 15P
C23 15P
" KEY
KEY1
KEYBOARD INTERFACE
PRES9
RA3
RA4
"-VLCD
U6
AIC1652
VIN CL
VREF DHI
/SHDN DLOW
FB GND
Q1 8550
D4 1N4148
VEEN
RN2 1K
L6 100uH
C29 100uF
C27 0.047uf
VR3 100K
RN4 1M
C28 10nF
PWM_OUT
R14 27K
R16 100K
R17 100K
R18 100K
R19 100K
R20 100K
LM358
2A
2B
VLCDN
C31 100uF
"+VLCD
VEEP
D5 1N4148
L5 10uH
U5
G511_T11
SW VCC
GND
FB SHDN
RP1 1M
VR1 100K
C6 100uF
C4 4.7uF
RP2 62k
R15 27K
R21 100K
R22 100K
R23 100K
R24 100K
R25 100K
1A
1B
VLCDP
C32 100uF
" DAC
DAC
R3
PWM_OUT
RC2
CP1
RC2 R3
2.4K 10K
1K 200K
RC2 VALUE
8803 RESISTOR
8806 CAPACITOR
" LCD DRIVER
LCD1
LCD INTERFACE
VCC
LD0
LD1
LD2
LD3
VLCDN
GND
VLCDN
VDD
ZDOFF
XCK
YD
LP
FRM
X1
Y2
X2
Y1
GND
VLCDP
Title
RA8806 & MCU DEMO BOARD TQFP
Size B
Number
Revision V2.0
Date: 21-Apr-2008
Sheet of 1 of 1
File: E:\michelle\RA8806_TQFP.DDB
Drawn By: SAM