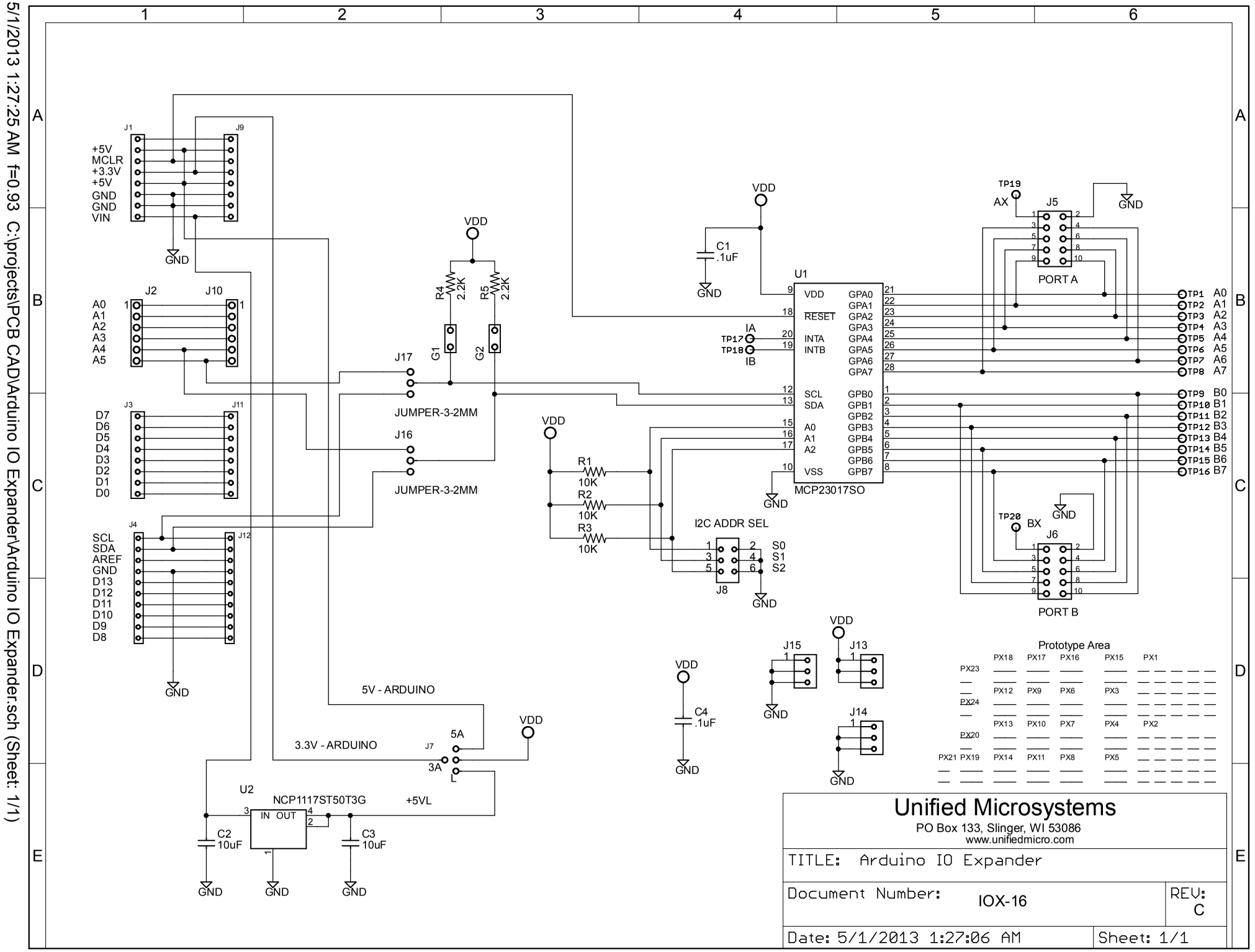
5/1/2013 1:27:25 AM f=0.93 C:\projects\PCB CAD\Arduino IO Expander\Arduino IO Expander.sch (Sheet: 1/1)
1
2
3
4
5
6
A
B
C
D
E
J1
J9
+5V
MCLR
+3.3V
+5V
GND
GND
VIN
J2
J10
A0
A1
A2
A3
A4
A5
J3
J11
D7
D6
D5
D4
D3
D2
D1
D0
J4
J12
SCL
SDA
AREF
GND
D13
D12
D11
D10
D9
D8
J17
JUMPER-3-2MM
J16
JUMPER-3-2MM
R4
2.2K
R5
2.2K
G1
G2
VDD
C1
.1uF
U1
MCP23017SO
VDD
RESET
INTA
INTB
SCL
SDA
A0
A1
A2
VSS
GPA0
GPA1
GPA2
GPA3
GPA4
GPA5
GPA6
GPA7
GPB0
GPB1
GPB2
GPB3
GPB4
GPB5
GPB6
GPB7
IA
IB
TP17
TP18
R1
10K
R2
10K
R3
10K
I2C ADDR SEL
J8
S0
S1
S2
TP19
AX
J5
PORT A
TP20
BX
J6
PORT B
TP1 A0
TP2 A1
TP3 A2
TP4 A3
TP5 A4
TP6 A5
TP7 A6
TP8 A7
TP9 B0
TP10 B1
TP11 B2
TP12 B3
TP13 B4
TP14 B5
TP15 B6
TP16 B7
C4
.1uF
J15
J13
J14
Prototype Area
PX18
PX17
PX16
PX15
PX1
PX23
PX12
PX9
PX6
PX3
PX24
PX13
PX10
PX7
PX4
PX2
PX20
PX21
PX19
PX14
PX11
PX8
PX5
5V - ARDUINO
3.3V - ARDUINO
J7
5A
3A
L
U2
NCP1117ST50T3G
IN
OUT
+5VL
C2
10uF
C3
10uF
Unified Microsystems
PO Box 133, Slinger, WI 53086
www.unifiedmicro.com
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Sheet: 1/1