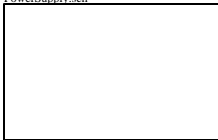
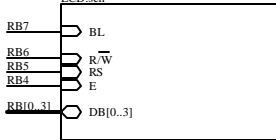


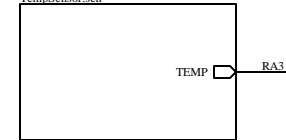
PowerSupply
PowerSupply.sch



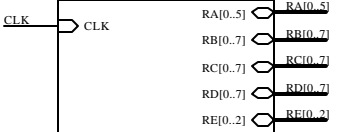
LCD
LCD.sch



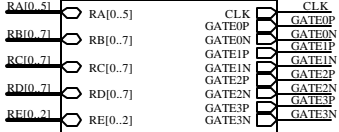
TempSensor
TempSensor.sch



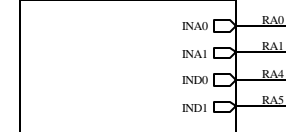
Microcontroller
Microcontroller.sch



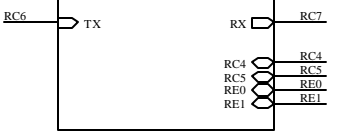
CPLD
CPLD.sch



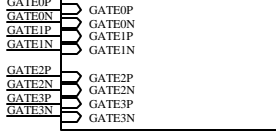
Inputs
Inputs.sch



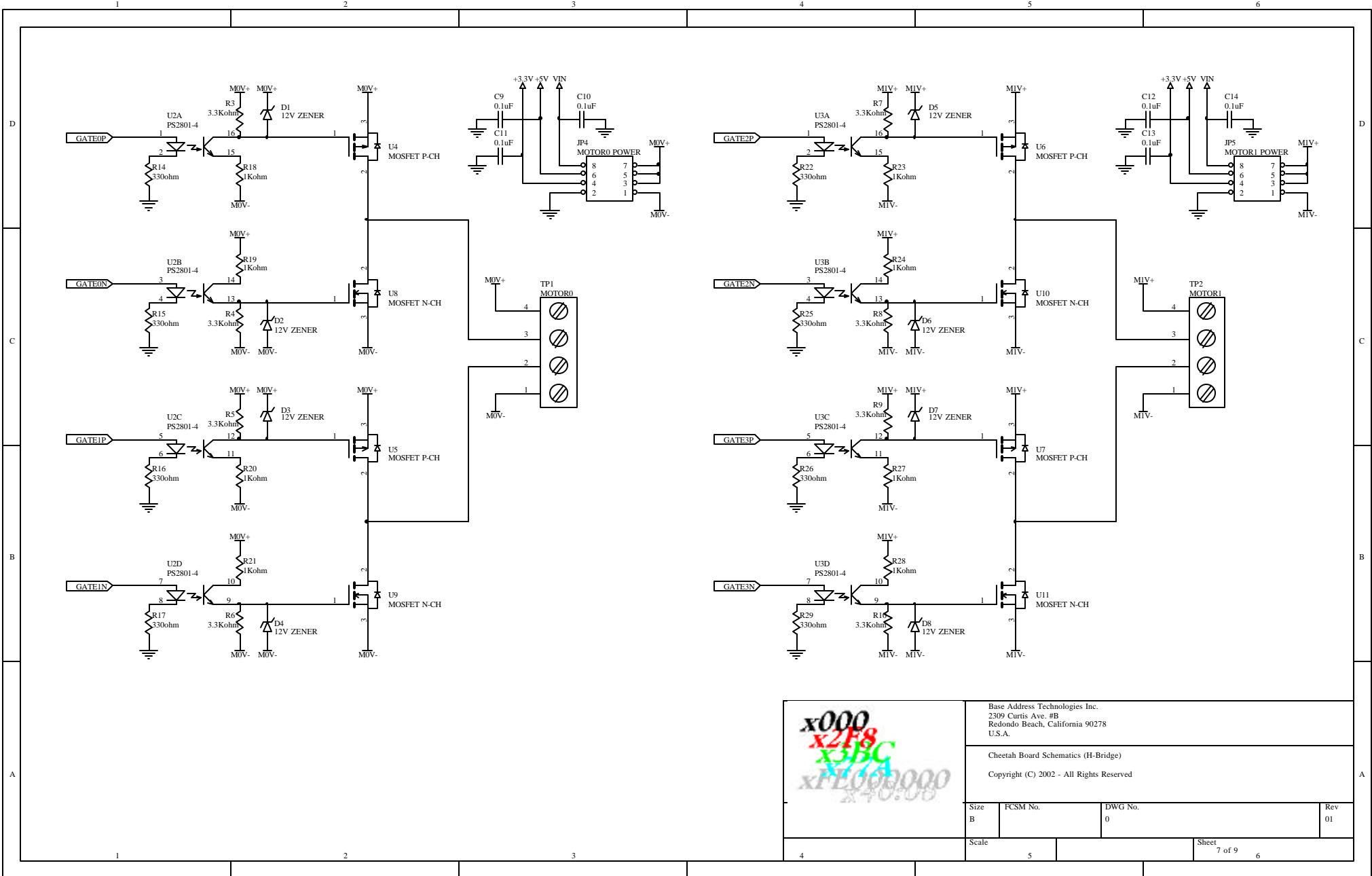
SerialInterface
SerialInterface.sch



H-Bridge
H-Bridge.sch



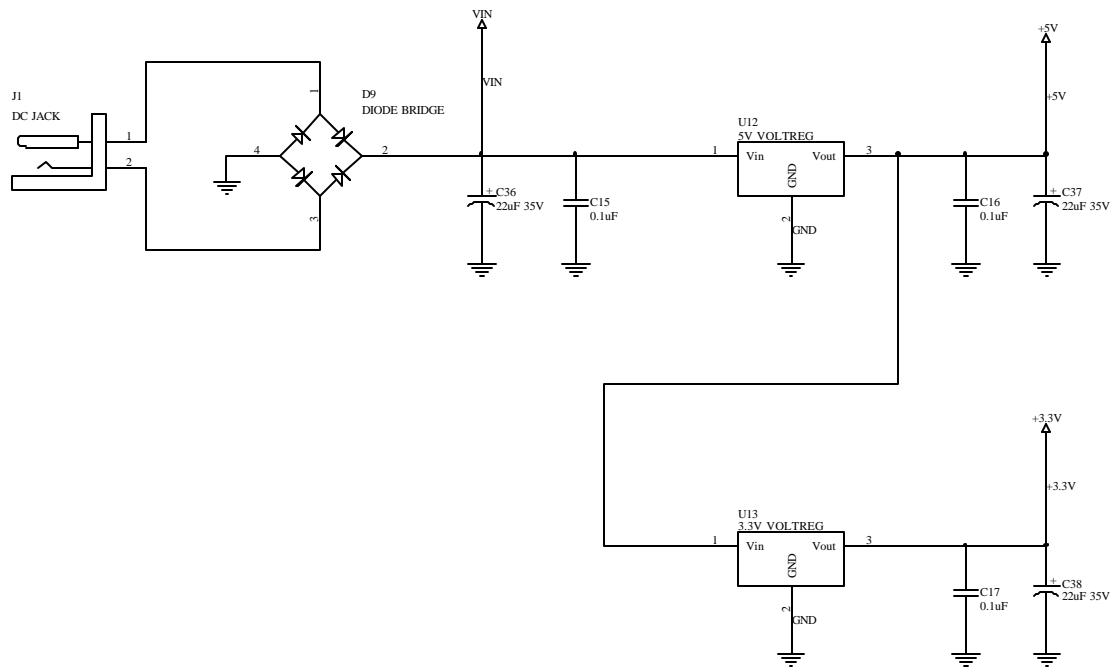
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Size B	FCSM No.	DWG No. 0	Rev 01
Scale	Sheet 1 of 9		



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Size B	FCSM No.	DWG No. 0	Rev 01
Scale	5	Sheet 7 of 9	6

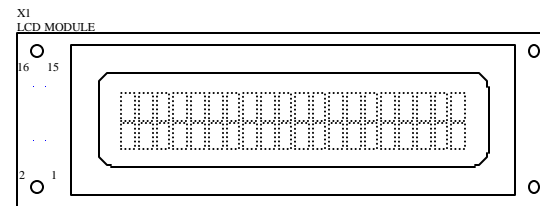
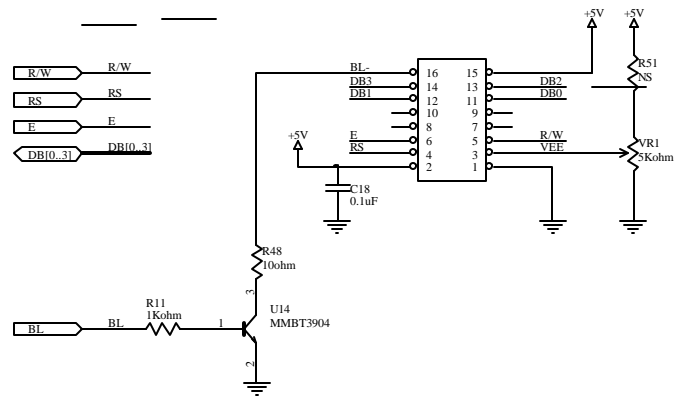


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Cheetah Board Schematics (Power Supply)
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Size B	FCSM No.	DWG No. 0	Rev 01
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Scale	Sheet 2 of 9
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	Cheetah Board Schematics (Liquid Crystal Display Module) Copyright (C) 2002 - All Rights Reserved		
Size B	FCSM No.	DWG No. 0	Rev 01
Scale	5		Sheet 5 of 9 6

1 2 3 4 5 6

D

D

C

C

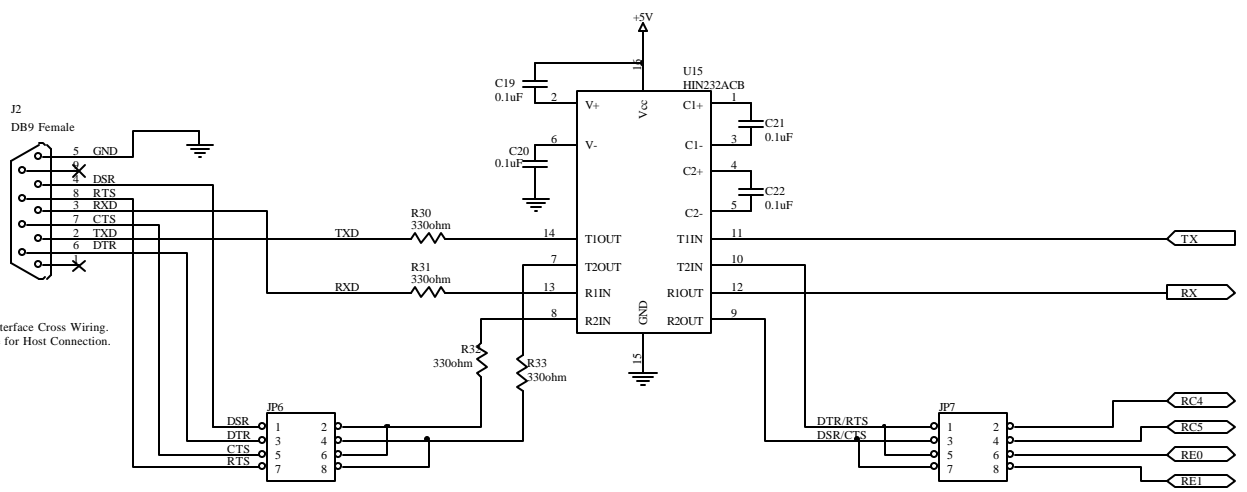
B

B

A

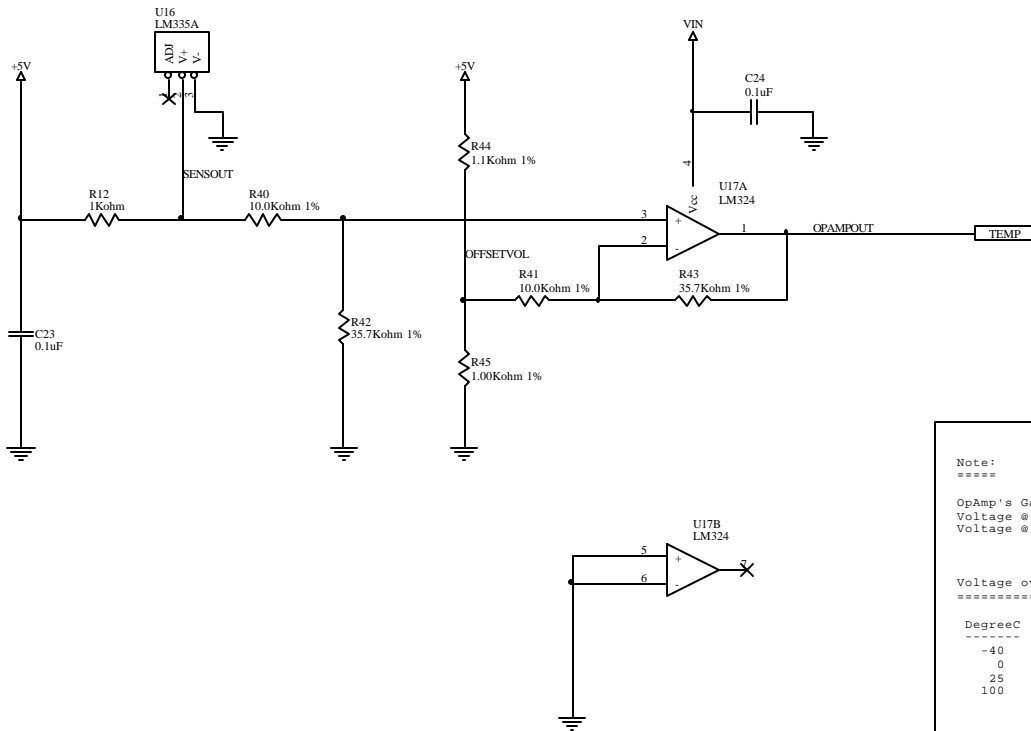
A

Note: RC232C Serial Interface Cross Wiring.
Use Straight Cable for Host Connection.



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		Cheetah Board Schematics (Serial Interface) Copyright (C) 2002 - All Rights Reserved	
Size B	FCSM No. 0	DWG No. 0	Rev 01
Scale	5	Sheet 4 of 9	6

1 2 3 4 5 6



Note:
 =====
 OpAmp's Gain = 35.7K / 10K = 3.57
 Voltage @ OFFSETVOL = 1K / (1.1K + 1K) * 5.0V = 2.33V
 Voltage @ OPAMPOUT = (SENSOUT - 2.33V) * 3.57

Voltage over Temperature:
 =====

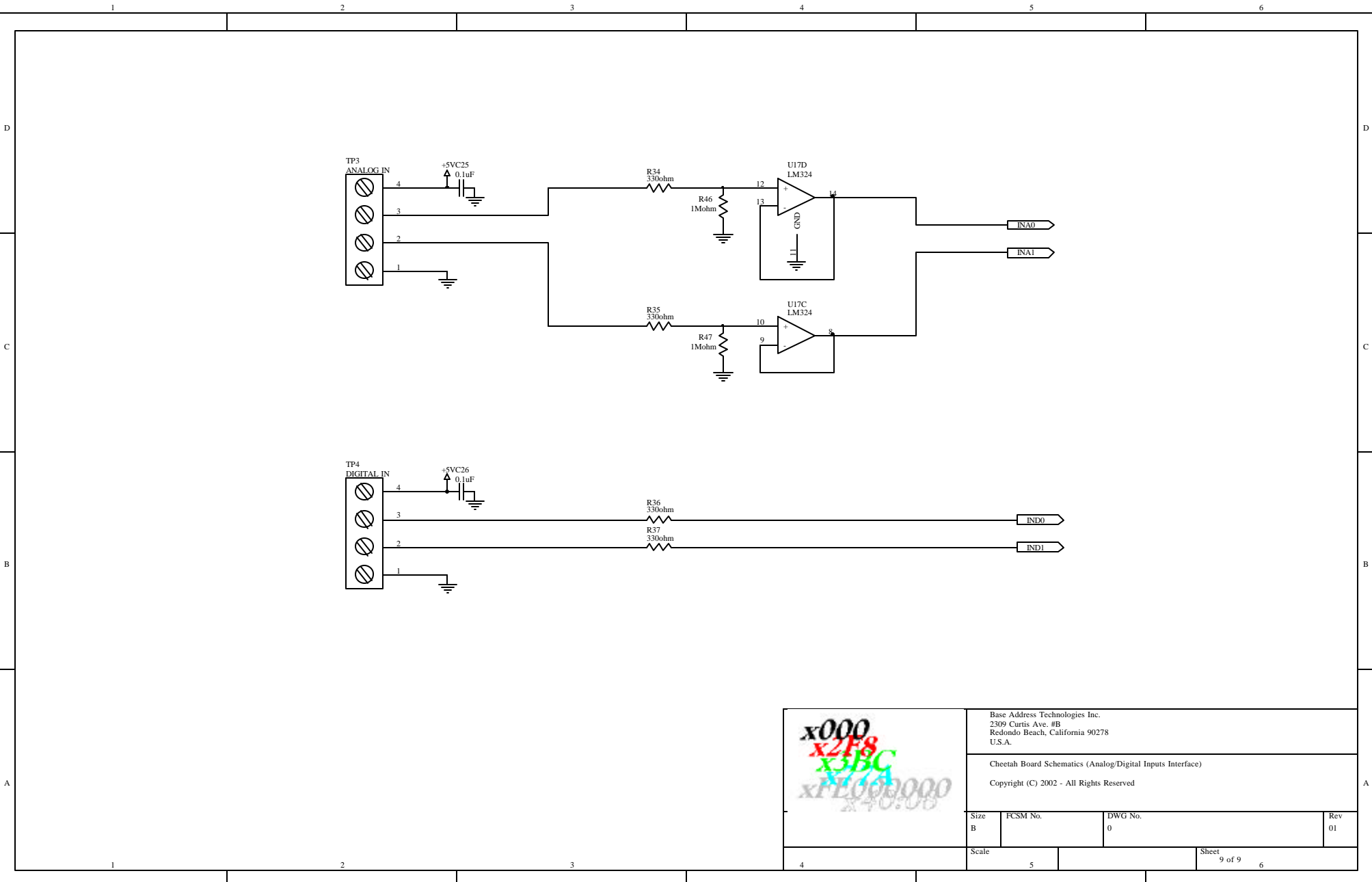
DegreeC	@SENSOUT	@OPAMPOUT	ADC Value (Hex)
-40	2.33V	0.0 V	0 (0x00)
0	2.73V	1.43V	73 (0x49)
25	2.98V	2.32V	118 (0x76)
100	3.73V	5.00V	255 (0xFF)

x000
x2F8
x3BC
x37A
x1E00000
x7000

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Cheetah Board Schematics (Temperature Sensor)
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Size B	FCSM No. 0	DWG No. 0	Rev 01
Scale	Sheet 8 of 9		6

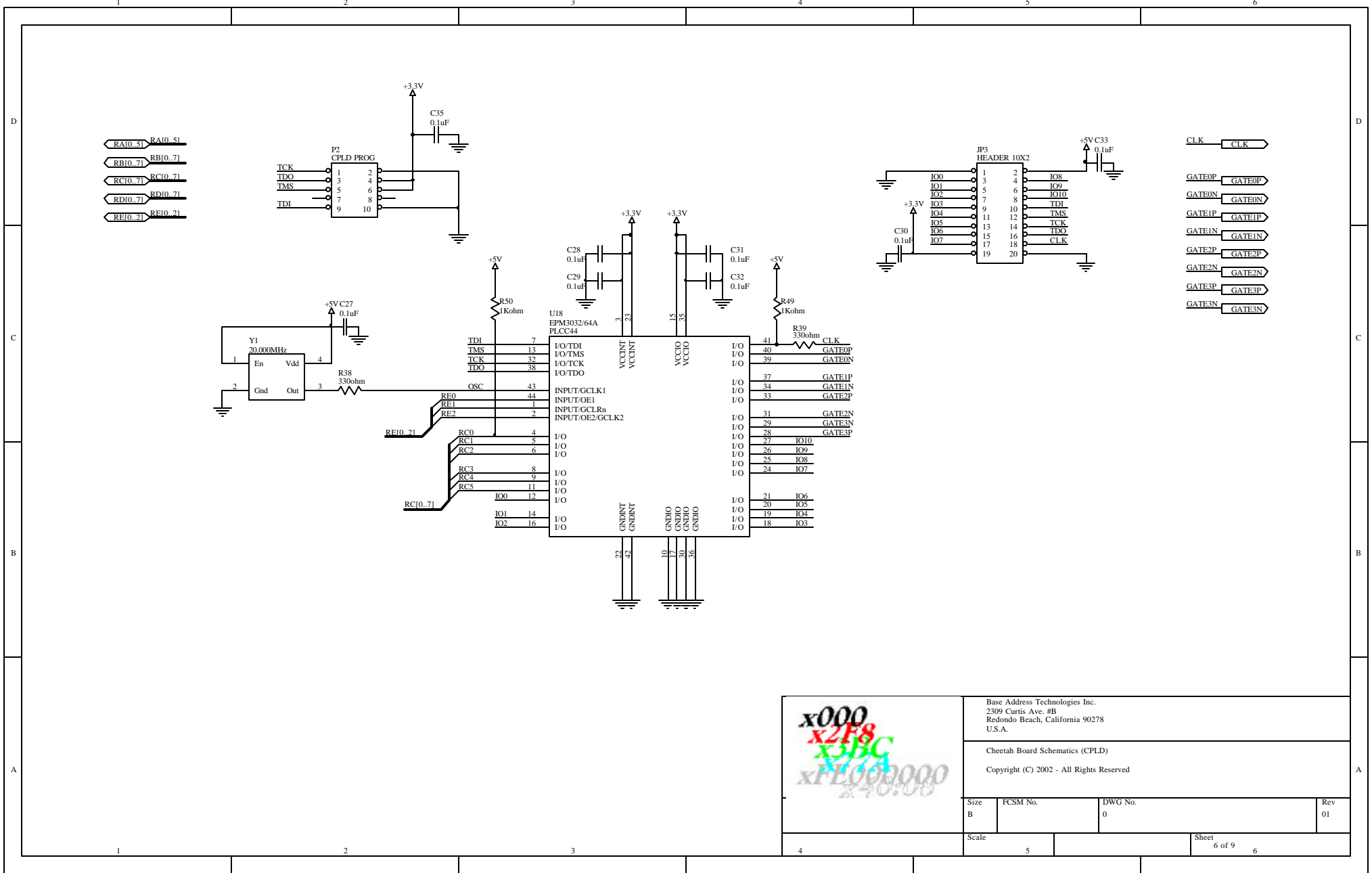


x000
 x218
 x3BC
 x77A
 xPL000000
 x70700

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Cheetah Board Schematics (Analog/Digital Inputs Interface)
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Size B	FCSM No.	DWG No. 0	Rev 01
Scale	Sheet 9 of 9		6



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Cheetah Board Schematics (CPLD)
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Size B	FCSM No.	DWG No. 0	Rev 01
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