

# EMC1428 SMSC Evaluation Board

## Design Details

Assemblies:  
EVB-EMC1428

Board:  
PCB-EVB-7122 Rev A00  
SMSC EVB 3.25" x 1.5"

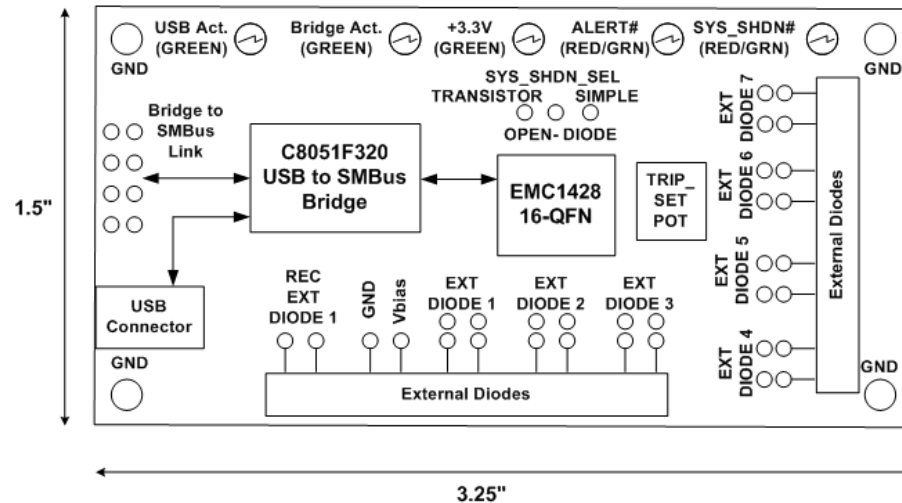
Chips:  
EMC1428

Packages:  
16-QFN

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USB to SMBus Bridge	3

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## EMC1428 EVB Floorplan



 <b>SMSC</b> <sup>™</sup> SUCCESS BY DESIGN		3930 East Ray Road Suite 200 Phoenix, Arizona 85044 480-759-0200
Title <b>EMC1428 EVB</b>		
Size B	Document Number <b>SCH-7122</b>	Rev <b>A0</b>
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# EMC1428 16-QFN

SMBus ADDR = 1001\_100xb

Q7  
MMBT3904  
40V / 0.1A

EXT Diode 7

Q6  
MMBT3904  
40V / 0.1A

EXT Diode 6

Bias circuit for  
remote CPU  
transistor

Vbias  
GND

Q1  
MMBT3904  
40V / 0.1A

EXT Diode 1

Q2  
MMBT3904  
40V / 0.1A

EXT Diode 2

Q3  
MMBT3904  
40V / 0.1A

EXT Diode 3

REC  
R1  
0-200

TRIP\_SET

Example set points:  
TRIP RSet  
65 0  
75 237  
85 562  
95 1100  
121 9090

SHDN\_SEL

Table 6.1 SHDN\_SEL Pin State Decode

SHDN_SEL PIN	DIODE MODE
'0' (GND)	Transistor Mode - Beta Compensation enabled, REC enabled
'high z' (open)	Diode mode - Beta Compensation Disabled, REC enabled
'1' (VDD)	Simple Mode - Beta Compensation Disabled, REC disabled

EXT Diode 4

EXT Diode 5

ALERT#

TP9

SYS\_SHDN#

TP10



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Title  
**EMC1428**

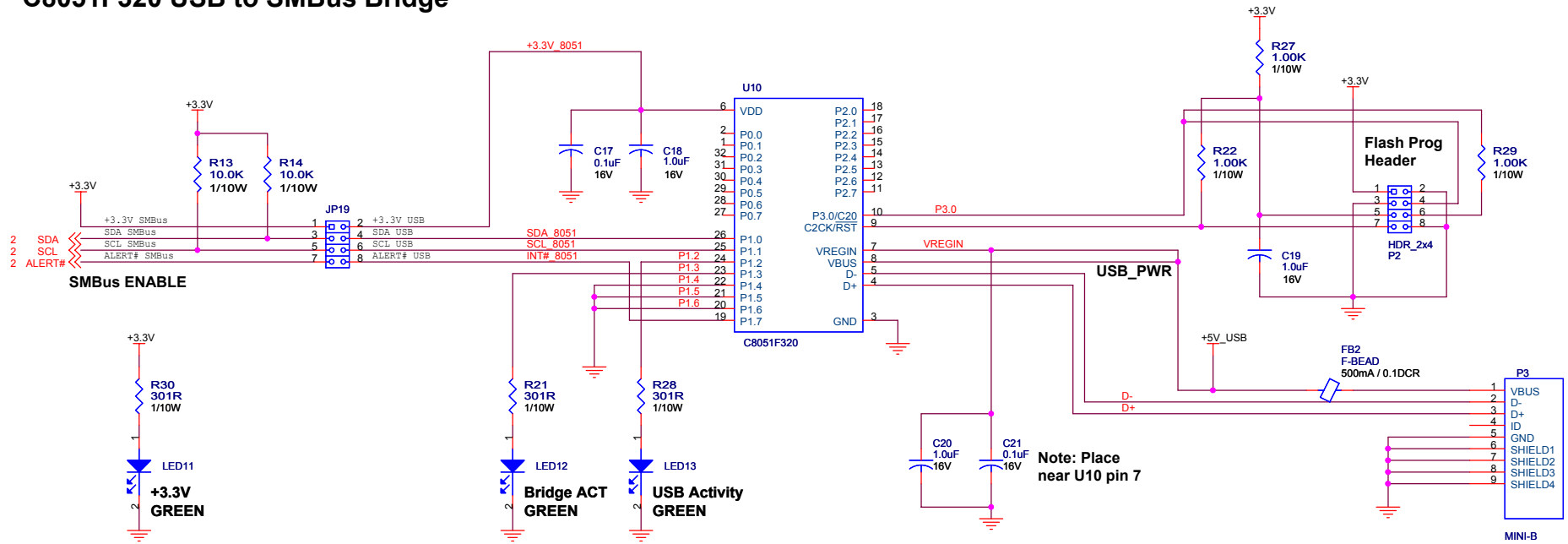
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Rev  
**A0**

## C8051F320 USB to SMBus Bridge



## Power Test Points



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Title <b>USB to SMBus Bridge</b>		
Size B	Document Number <b>SCH-7122</b>	Rev <b>A0</b>
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