

# INTEL(R) 820E CHIPSET FCPGA 2 RIMM ICH2 REFERENCE SCHEMATICS REVISION 0.5

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Note that these schematics are preliminary and are subject to change.

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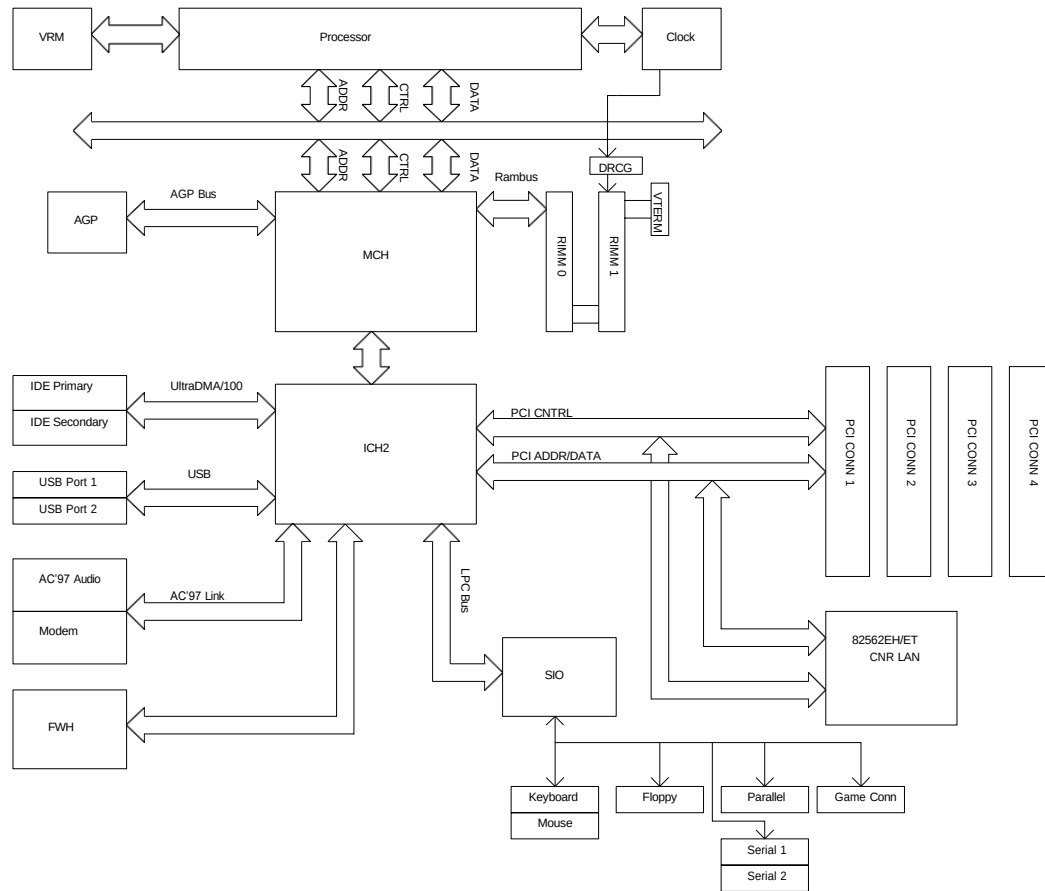
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|                                                                                    |                                 |                     |
|------------------------------------------------------------------------------------|---------------------------------|---------------------|
| TITLE: INTEL(R) 820E CHIPSET 2 DIMM FCPGA REFERENCE BOARD                          |                                 | REV: 0.5            |
| intel<br>PCG PLATFORM DESIGN<br>1900 PRAIRIE CITY ROAD<br>FOLSOM, CALIFORNIA 95630 | DRAWN BY:<br>PCGAE              | PROJECT:<br>Camino2 |
|                                                                                    | LAST REVISED:<br>5-23-2000 9:18 | SHEET:<br>0340      |

## Block Diagram



## Device Table

| REFERENCE DESIGNATOR | DEVICE TYPE    | GATES USED    | SHEET NUMBER  |
|----------------------|----------------|---------------|---------------|
| U1                   | LM4880         |               | 14            |
| U2                   | AD1881         |               | 13            |
| U3                   | 74LVC08A       | A, B          | 36            |
| U4, U6               | GD75232        |               | 30            |
| U8                   | 82562          |               | 17            |
| U10                  | 82820 (MCH)    |               | 6, 7          |
| U11                  | CK133          |               | 5             |
| U12                  | DRCG           |               | 5             |
| U13                  | 82820 (ICH)    |               | 8, 9          |
| U14                  | 74LVC07A       | A, B, C, D, E | 7, 23, 34, 35 |
| U15                  | 74LVC14a       | A, B, C, D, E | 36            |
| U16                  | FWH            |               | 10            |
| U17                  | LPC47B27X      |               | 12            |
| U18                  | 74LS132        | B, C          | 34, 36        |
| U19                  | 74LVC07A       | A, C, D       | 23, 27        |
| U20                  | 74LVC06A       | A, B, C       | 36            |
| U21                  | 74HC03         |               | 15            |
| U25                  | 82562EM        |               | 18            |
| U26                  | FFB3904        |               | 23            |
| U27                  | H1138_Argonite |               | 20            |
| U28                  | A03449-001     |               | 19            |

# 370-PIN SOCKET PART 1

|       |     |       |
|-------|-----|-------|
| HD#0  | W1  | HD#0  |
| HD#1  | T4  | HD#1  |
| HD#2  | N1  | HD#2  |
| HD#3  | M6  | HD#3  |
| HD#4  | U1  | HD#4  |
| HD#5  | S3  | HD#5  |
| HD#6  | T6  | HD#6  |
| HD#7  | J1  | HD#7  |
| HD#8  | S1  | HD#8  |
| HD#9  | P6  | HD#9  |
| HD#10 | Q8  | HD#10 |
| HD#11 | M4  | HD#11 |
| HD#12 | Q1  | HD#12 |
| HD#13 | L1  | HD#13 |
| HD#14 | N3  | HD#14 |
| HD#15 | U3  | HD#15 |
| HD#16 | H4  | HD#16 |
| HD#17 | R4  | HD#17 |
| HD#18 | P4  | HD#18 |
| HD#19 | H6  | HD#19 |
| HD#20 | L3  | HD#20 |
| HD#21 | G1  | HD#21 |
| HD#22 | F8  | HD#22 |
| HD#23 | G3  | HD#23 |
| HD#24 | K6  | HD#24 |
| HD#25 | E3  | HD#25 |
| HD#26 | E1  | HD#26 |
| HD#27 | F12 | HD#27 |
| HD#28 | A5  | HD#28 |
| HD#29 | A3  | HD#29 |
| HD#30 | J3  | HD#30 |
| HD#31 | C5  | HD#31 |
| HD#32 | F6  | HD#32 |
| HD#33 | C1  | HD#33 |
| HD#34 | C7  | HD#34 |
| HD#35 | B2  | HD#35 |
| HD#36 | C9  | HD#36 |
| HD#37 | A9  | HD#37 |
| HD#38 | D8  | HD#38 |
| HD#39 | D10 | HD#39 |
| HD#40 | C15 | HD#40 |
| HD#41 | D14 | HD#41 |
| HD#42 | D12 | HD#42 |
| HD#43 | A7  | HD#43 |
| HD#44 | A11 | HD#44 |
| HD#45 | C11 | HD#45 |
| HD#46 | A21 | HD#46 |
| HD#47 | A15 | HD#47 |
| HD#48 | A17 | HD#48 |
| HD#49 | C13 | HD#49 |
| HD#50 | C25 | HD#50 |
| HD#51 | A13 | HD#51 |
| HD#52 | D16 | HD#52 |
| HD#53 | A23 | HD#53 |
| HD#54 | C21 | HD#54 |
| HD#55 | C19 | HD#55 |
| HD#56 | C27 | HD#56 |
| HD#57 | A19 | HD#57 |
| HD#58 | C23 | HD#58 |
| HD#59 | C17 | HD#59 |
| HD#60 | A25 | HD#60 |
| HD#61 | A27 | HD#61 |
| HD#62 | E25 | HD#62 |
| HD#63 | F16 | HD#63 |

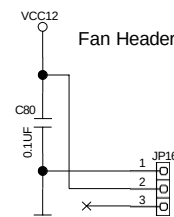
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VCCVID:AM24,AJ25,D24,F26,AM28,AJ29,D28,AK34,F30,B30,AM32,AH32,Z32,V32,R32  
VCCVID:M32,H32,AF34,AB34,X34,T34,P34,K34,F34,B34,AH36,B22,V36,R36,H36,D36,D32  
VCCVID:AD32,AH24,F14,K32,AA37,Y35

VTT1\_5:AH20,AK16,AL21,AW11,AN15,G35,AL13

GND:AM34,AH2,AD2,Z2,V2,M2,D18,H2,D2,AL3,AK4,AG5,AC5,Y5,U5,QL5,G5,D4,B4  
GND:AM6,AJ7,E7,B8,AM10,AJ11,E11,B12,AM14,AJ15,E15,B16,AM18,AJ19,E19,F20,B20  
GND:AM22,D23,D22,F24,B24,AM26,AJ27,D26,F28,B28,AM30,D30,AF32,AB32,X32,T32  
GND:P32,F32,B32,AH34,AD34,Z34,V34,R34,M34,H34,D34,AK36,AF36,X36,T36,P36,K36  
GND:F36,A37,AC33,Y37

|         |      |        |
|---------|------|--------|
| HA#3    | AK8  | HA#3   |
| HA#4    | AH12 | HA#4   |
| HA#5    | AH8  | HA#5   |
| HA#6    | AN9  | HA#6   |
| HA#7    | AL15 | HA#7   |
| HA#8    | AH10 | HA#8   |
| HA#9    | AL9  | HA#9   |
| HA#10   | AH6  | HA#10  |
| HA#11   | AK10 | HA#11  |
| HA#12   | AN5  | HA#12  |
| HA#13   | AL7  | HA#13  |
| HA#14   | AK14 | HA#14  |
| HA#15   | AL5  | HA#15  |
| HA#16   | AN7  | HA#16  |
| HA#17   | AE1  | HA#17  |
| HA#18   | Z6   | HA#18  |
| HA#19   | AG3  | HA#19  |
| HA#20   | AC3  | HA#20  |
| HA#21   | AJ1  | HA#21  |
| HA#22   | AE3  | HA#22  |
| HA#23   | AB6  | HA#23  |
| HA#24   | AB4  | HA#24  |
| HA#25   | AF6  | HA#25  |
| HA#26   | Y3   | HA#26  |
| HA#27   | AA1  | HA#27  |
| HA#28   | AK6  | HA#28  |
| HA#29   | Z4   | HA#29  |
| HA#30   | AA3  | HA#30  |
| HA#31   | AD4  | HA#31  |
| HA#32   | X6   |        |
| HA#33   | AC1  |        |
| HA#34   | W3   |        |
| HA#35   | AF4  |        |
| VID0    | AL35 | VID0   |
| VID1    | AM36 | VID1   |
| VID2    | AL37 | VID2   |
| VID3    | AJ37 | VID3   |
| RS#0    | AH26 | RS#0   |
| RS#1    | AH22 | RS#1   |
| RS#2    | AK28 | RS#2   |
| REQ#0   | AK18 | HREQ#0 |
| REQ#1   | AH16 | HREQ#1 |
| REQ#2   | AH18 | HREQ#2 |
| REQ#3   | AL19 | HREQ#3 |
| REQ#4   | AL17 | HREQ#4 |
| DEP0#   | C33  |        |
| DEP1#   | C31  |        |
| DEP2#   | A31  |        |
| DEP3#   | E31  |        |
| DEP4#   | C29  |        |
| DEP5#   | E29  |        |
| DEP6#   | A29  |        |
| DEP7#   | U37  |        |
| RESVTT0 | U35  |        |
| RESVTT1 | S37  |        |
| RESVTT2 | S33  |        |
| RESVTT3 | E23  |        |
| RESVTT4 | AN21 |        |
| RESVTT5 | AA35 |        |
| RESVTT6 | AA33 |        |
| RESVTT7 |      |        |

Fan Header



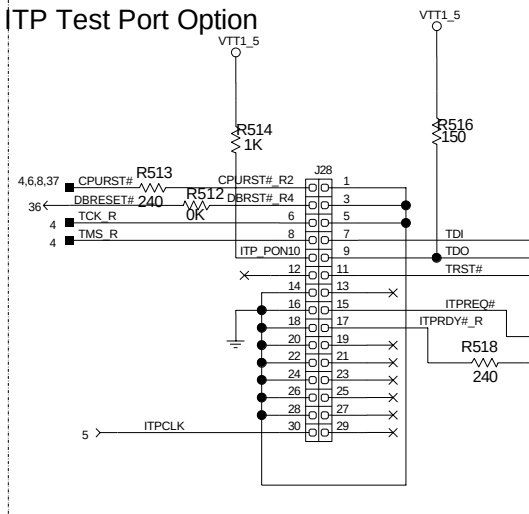
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PROCESSOR CONNECTOR

PCG PLATFORM DESIGN  
1900 PRAIRIE CITY ROAD  
FOLSOM, CALIFORNIA 95630

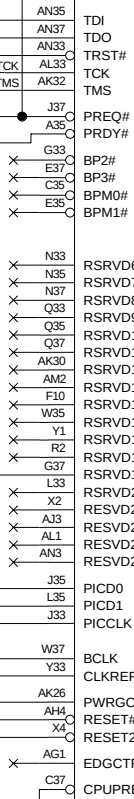
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PROJECT:  
Camino2  
SHEET:  
3 OF 40

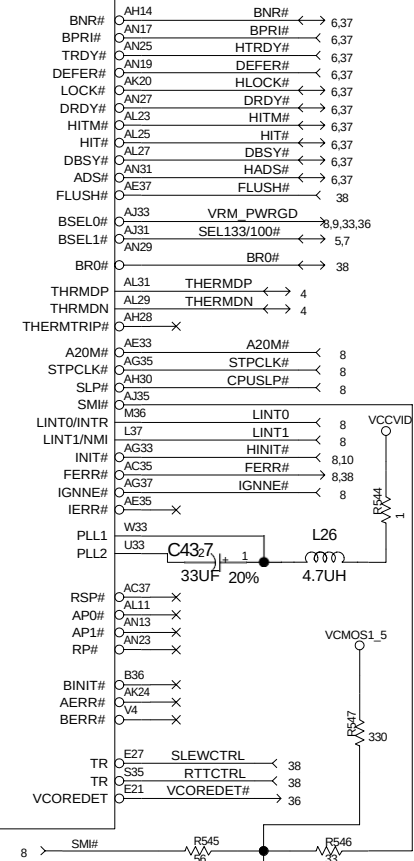
# ITP Test Port Option



## SKT1



## 370-PIN SOCKET PART 2



|                                                                                                                                                                 |                               |                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------|
| TITLE: INTEL(R) 820E CHIPSET 2 DIMM FCPGA REFERENCE BOARD<br>CLOCK SYNTHESIZER                                                                                  |                               | REV:<br>0.5         |
|  PCG PLATFORM DESIGN<br>1900 PRAIRIE CITY ROAD<br>FOLSOM, CALIFORNIA 95630 | DRAWN BY:<br>PCG AE           | PROJECT:<br>Camino2 |
|                                                                                                                                                                 | LAST REVISED:<br>3-20-2000 14 | SHEET:<br>052 OF 40 |

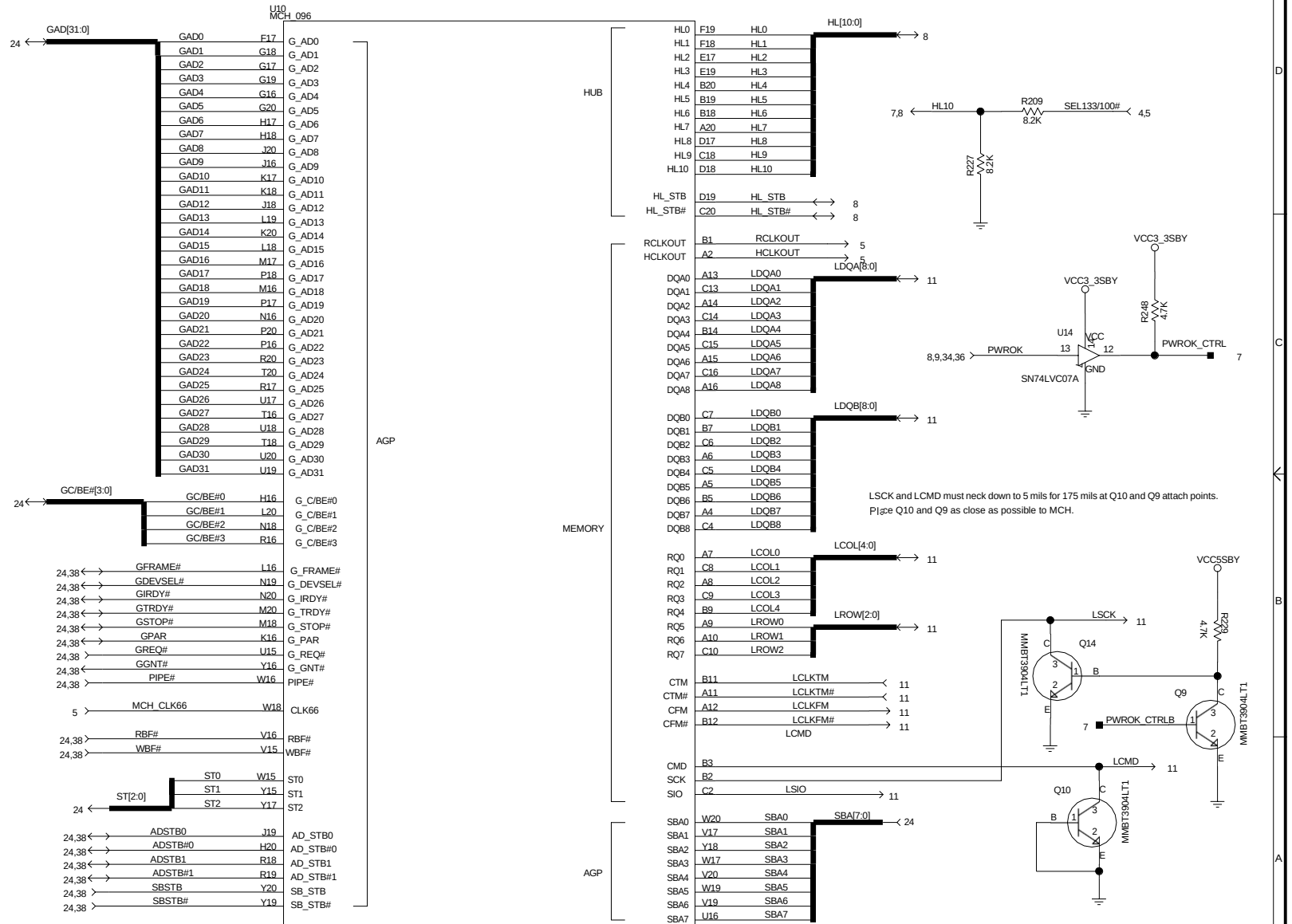
MCH

VCC1\_8 D4 E6 F6 G6 E7 R6 T7 E8 E9 D10 D11 E12  
VCC1\_8 E13 E14 F14 T14 E15 P15 B17 C17 C19  
VDDQ F15 R15 J17 L17 N17 T17  
GND A1 A3 G3 J3 L3 N3 R3 V3 B4 D5 L5 U5 B6 D6 D7 V7 B8 D8  
GND D9 J9 K9 L9 M9 V9 B10 J10 K10 L10 M10 C11 J11 K11 L11  
GND M1 V11 C12 D12 J12 K12 L12 M12 B13 D13 V13 D14  
GND B15 D15 B16 D16 E16 F16 A17 E18 V18 A19 M19 K19 M19  
GND P19 T19 D20

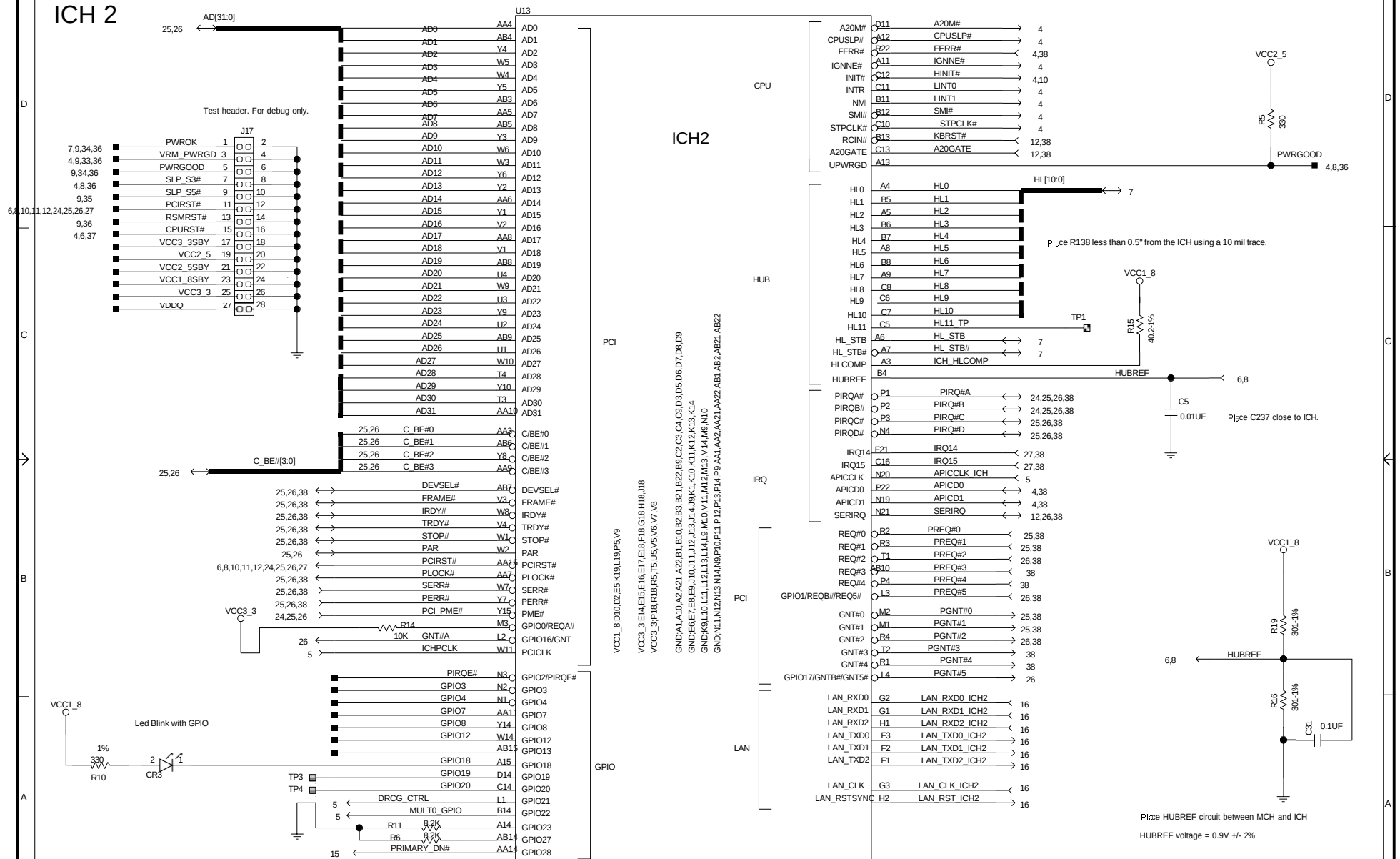
TEST/GRCOMP

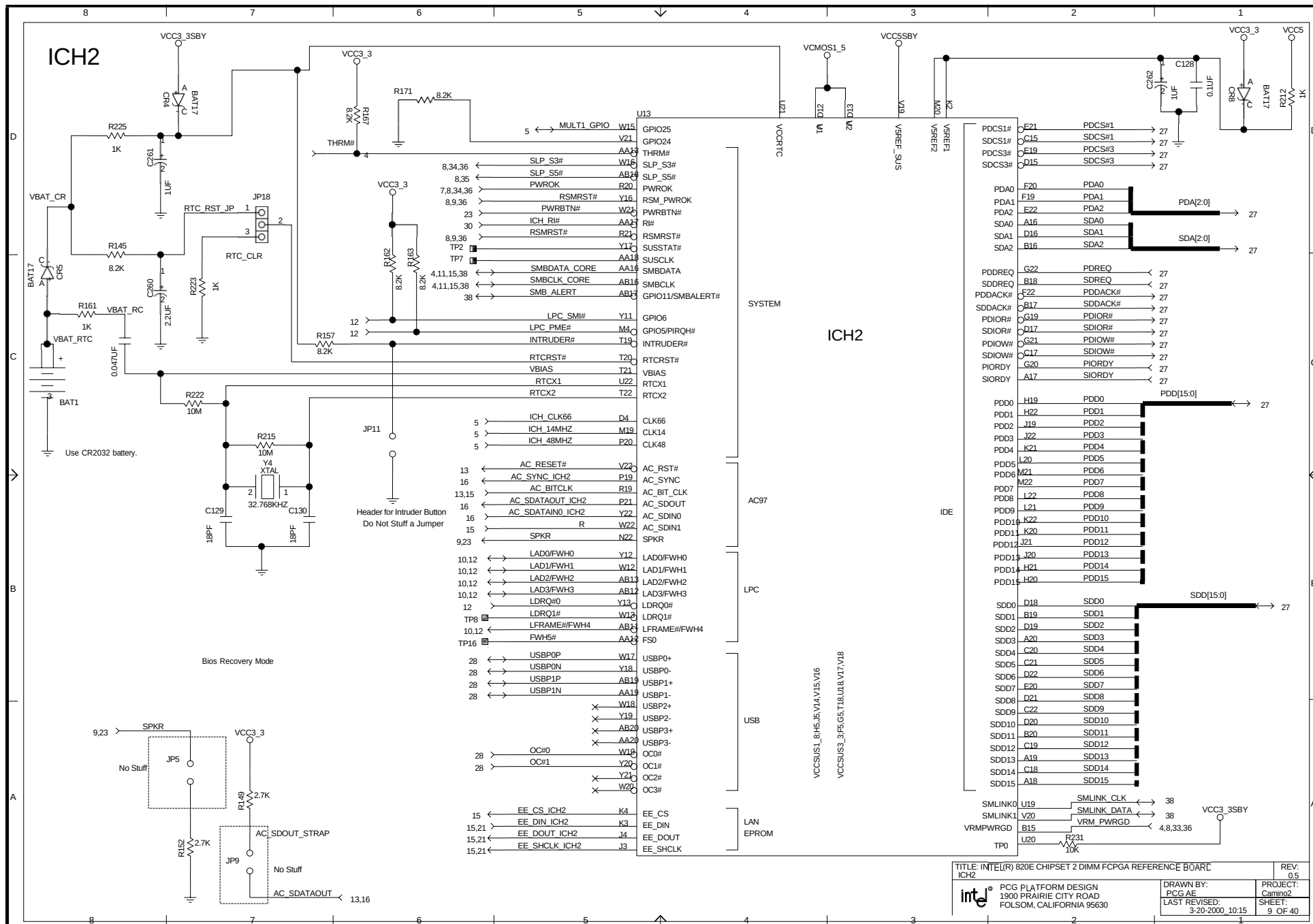
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MCHPCG PLATFORM DESIGN  
1900 PRAIRIE CITY ROAD  
FOLSOM, CALIFORNIA 95630DRAWN BY:  
PCG AE  
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6 OF 40

# MCH

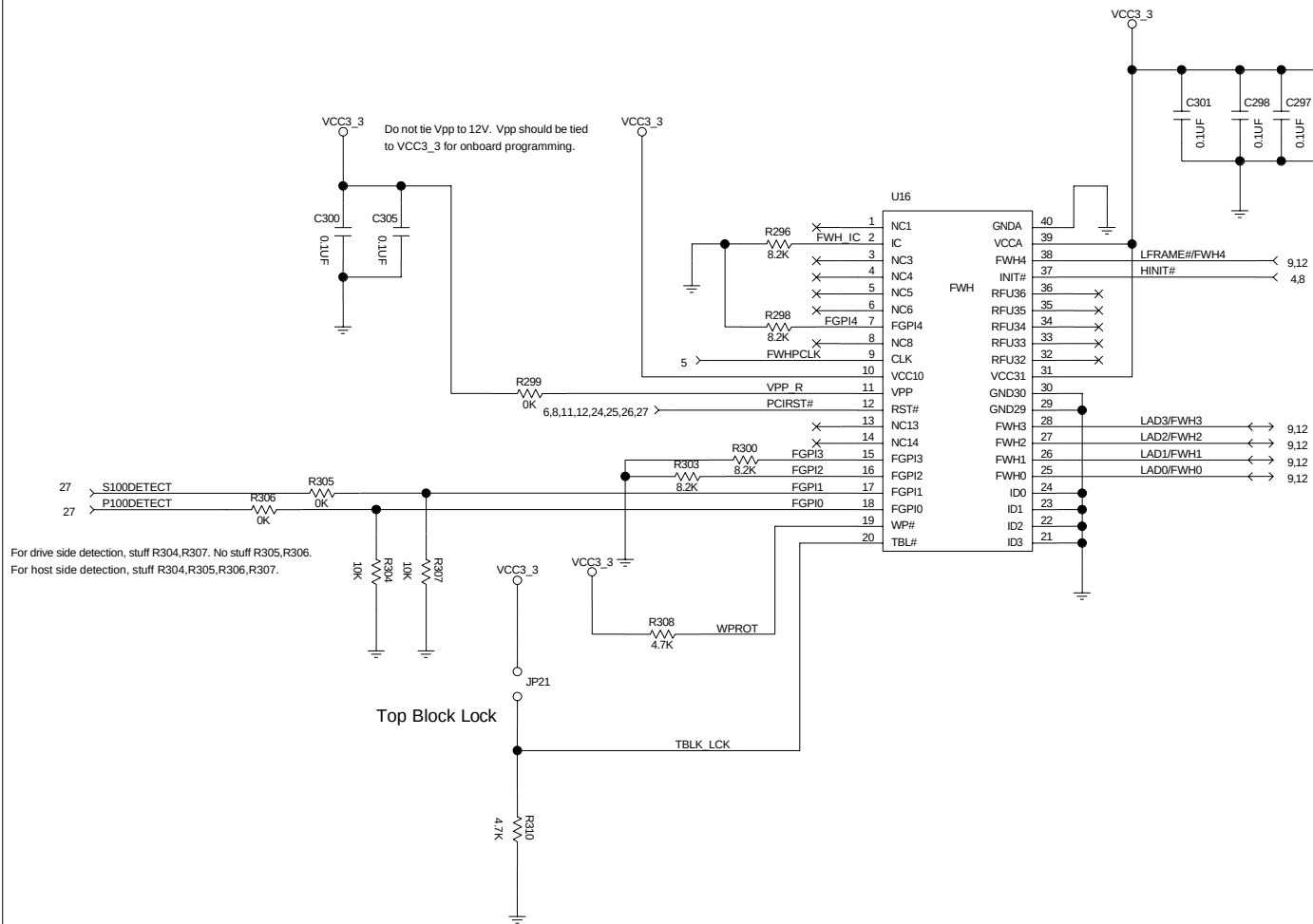


# ICH 2





## FWH



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