

SCHEMATIC CONTENTS

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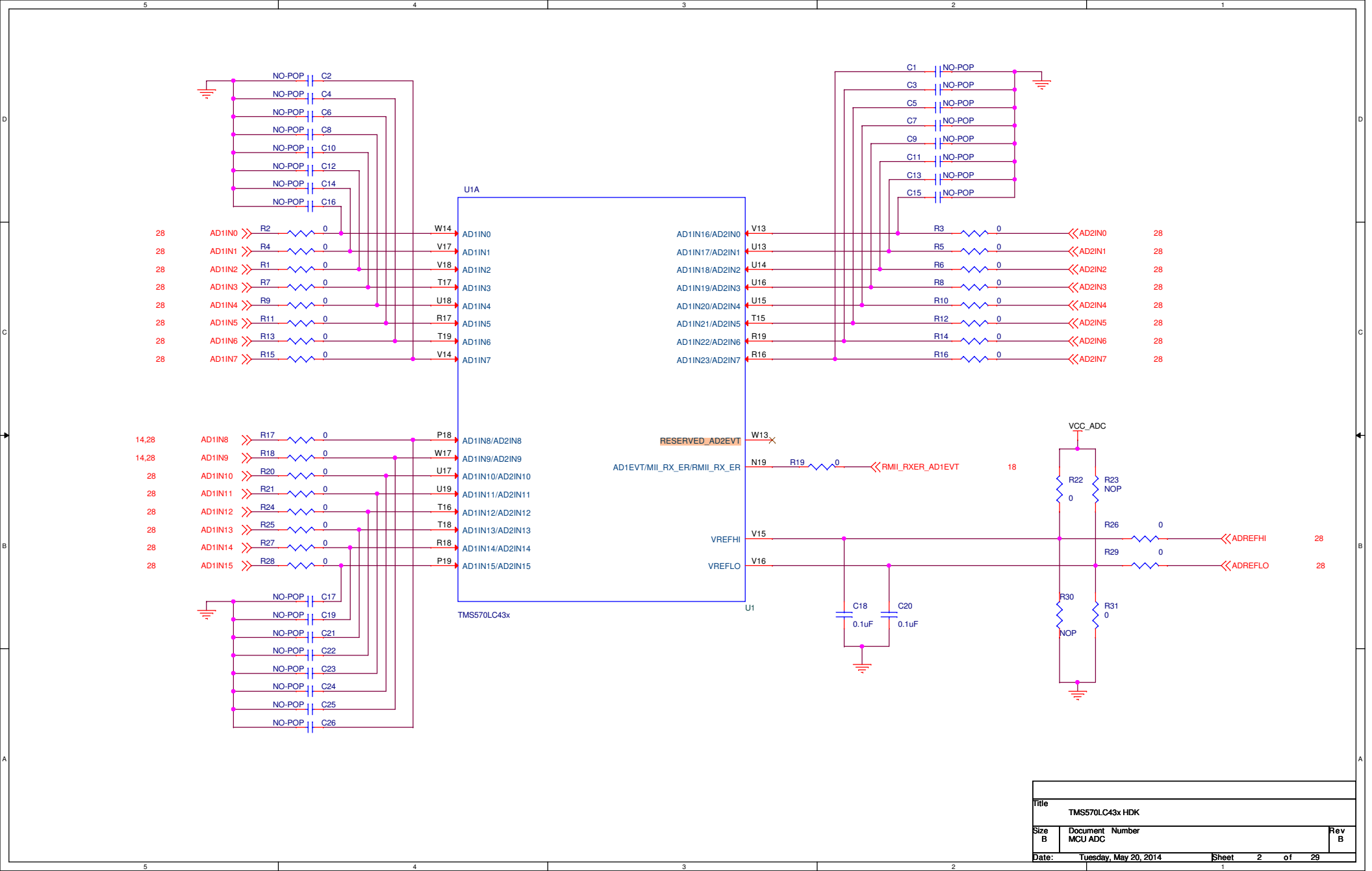
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1. Changed SD card slot
2. R291 and R293 value for Gladiator 1.2V core power
3. Route EMIF D[8:15] to exp connector (missed on RevB)

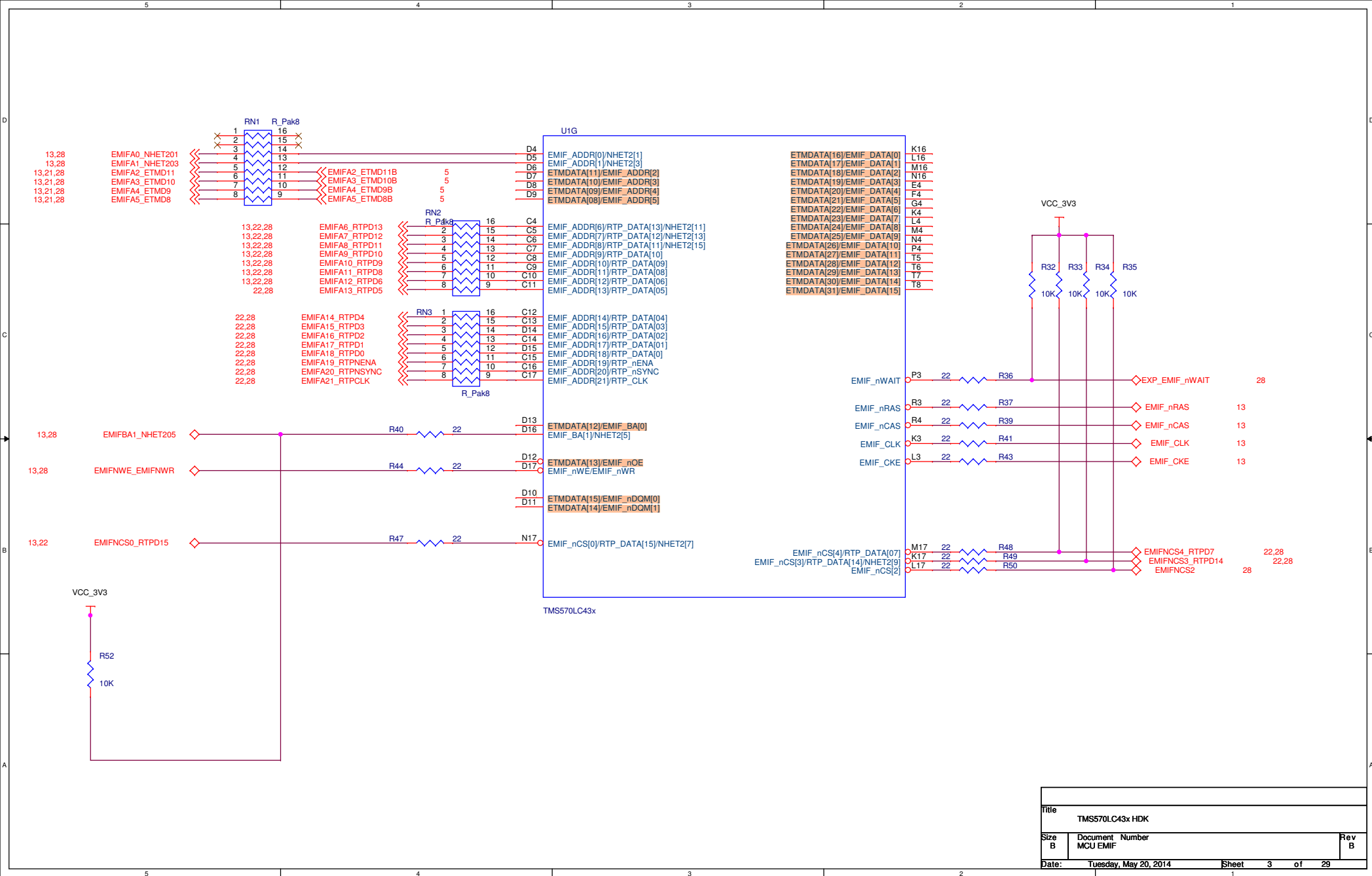
1. Added n\_channel FET and RC to JTAG nTRST (P07)

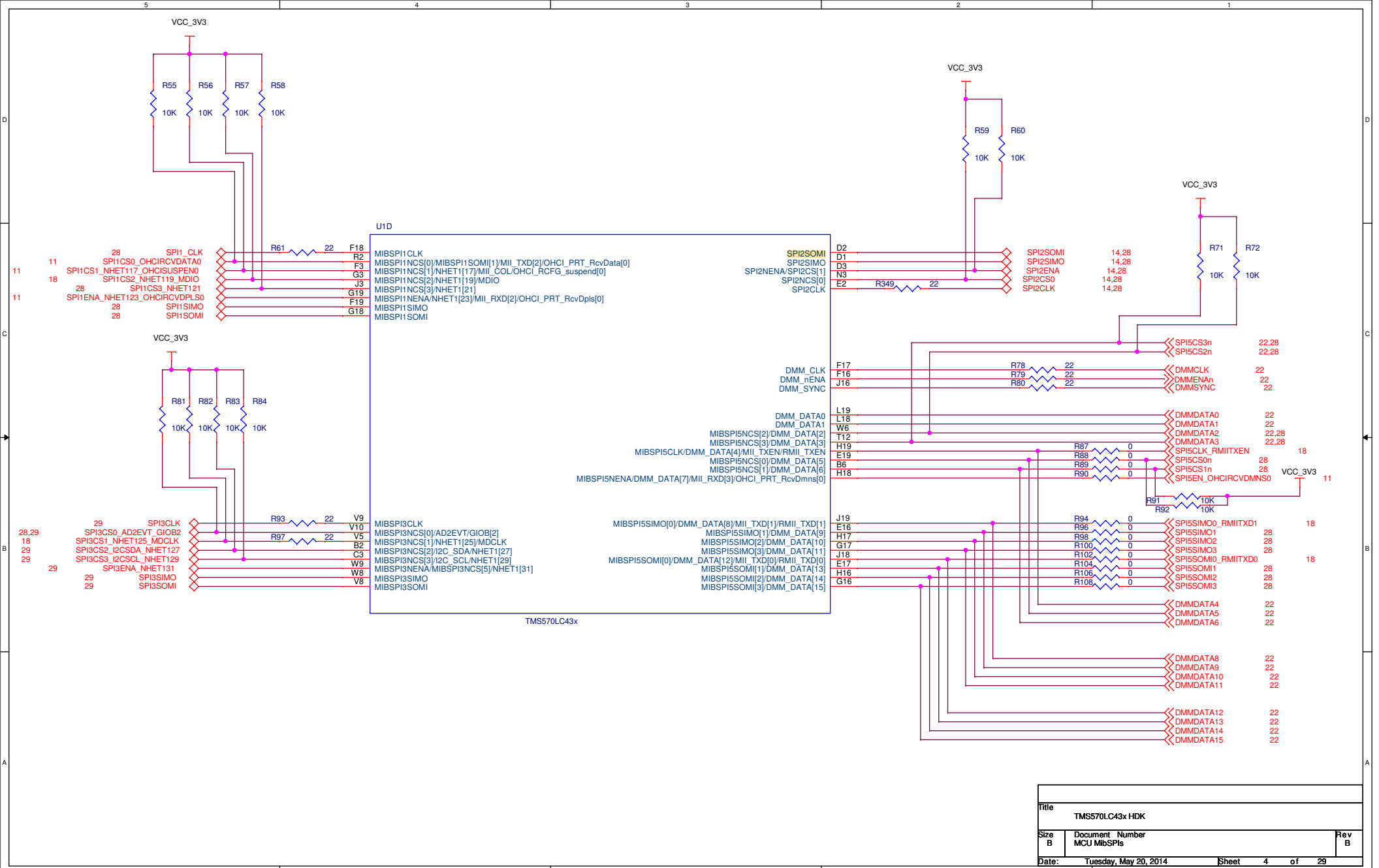
1. Added n\_channel FET and RC to JTAG nTRST (P07)
2. Replaced 2 color LEDs with 2 white LEDs

|                              |                          |       |          |
|------------------------------|--------------------------|-------|----------|
| <b>Texas Instruments Inc</b> |                          |       |          |
| Title<br>TMS570LC43x HDK     |                          |       |          |
| Size<br>A                    | Document Number<br>TITLE |       | Rev<br>B |
| Date:                        | Tuesdav. May 20. 2014    | Sheet | 1 of 29  |



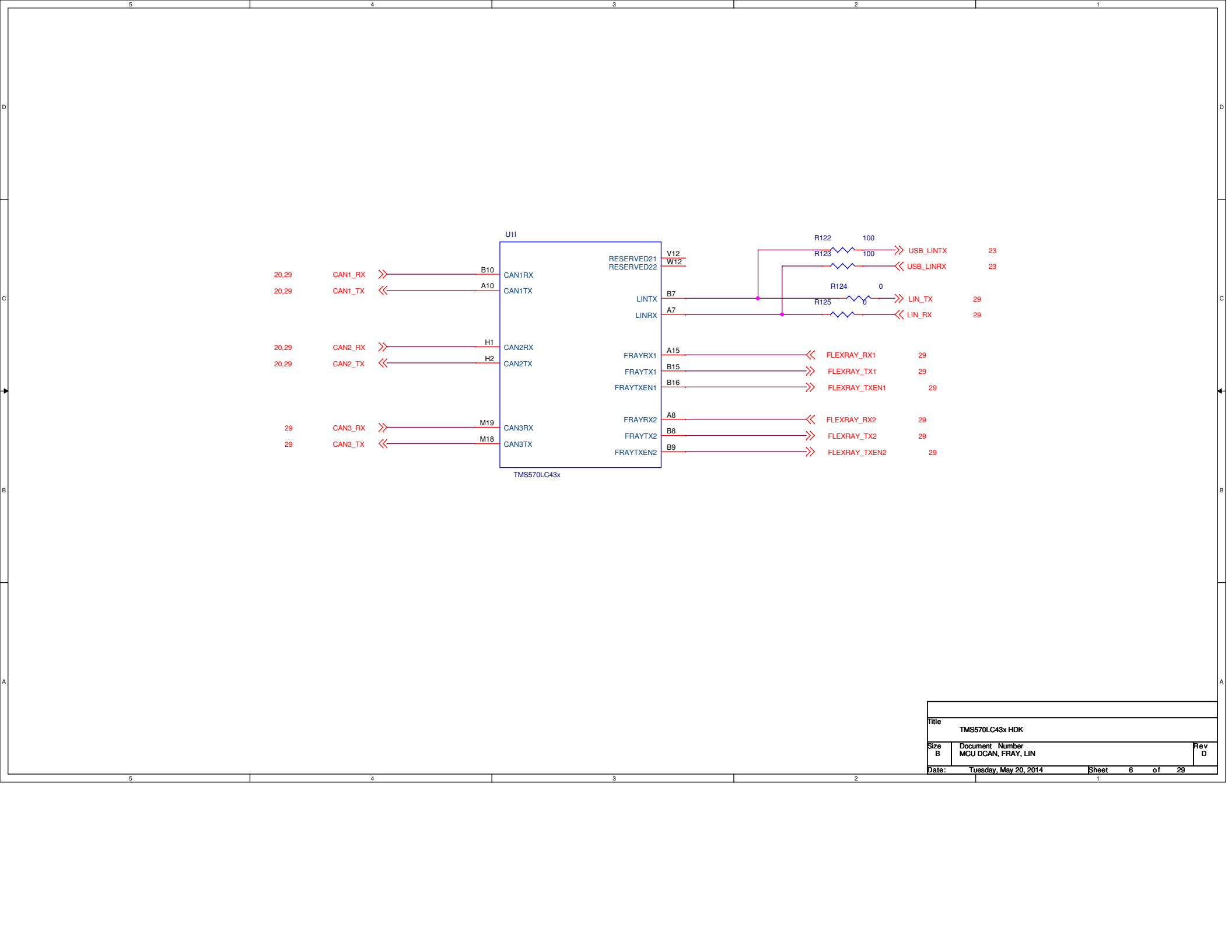
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| Title                       |          |        |     |
| TMS570LC43x HDK             |          |        |     |
| Size                        | Document | Number | Rev |
| B                           | MCU ADC  |        | B   |
| Date: Tuesday, May 20, 2014 |          |        |     |
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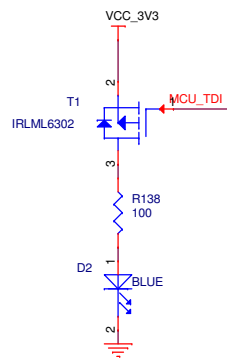
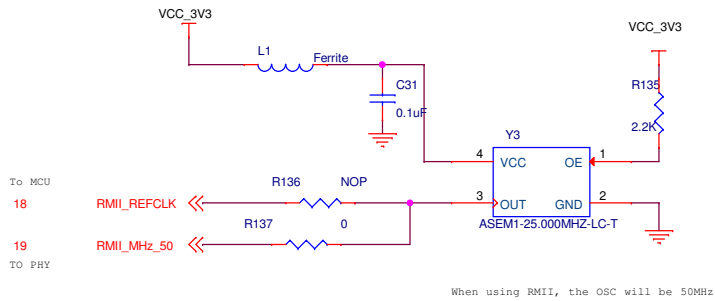


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|-------|-----------------------|--------|-----------------|---|-------|
| Title |                       |        | TMS570LC43x HDK |   |       |
| Size  | Document              | Number | Rev             |   |       |
| B     | MCU MibSPis           |        | B               |   |       |
| Date: | Tuesday, May 20, 2014 |        | Sheet           | 4 | of 29 |

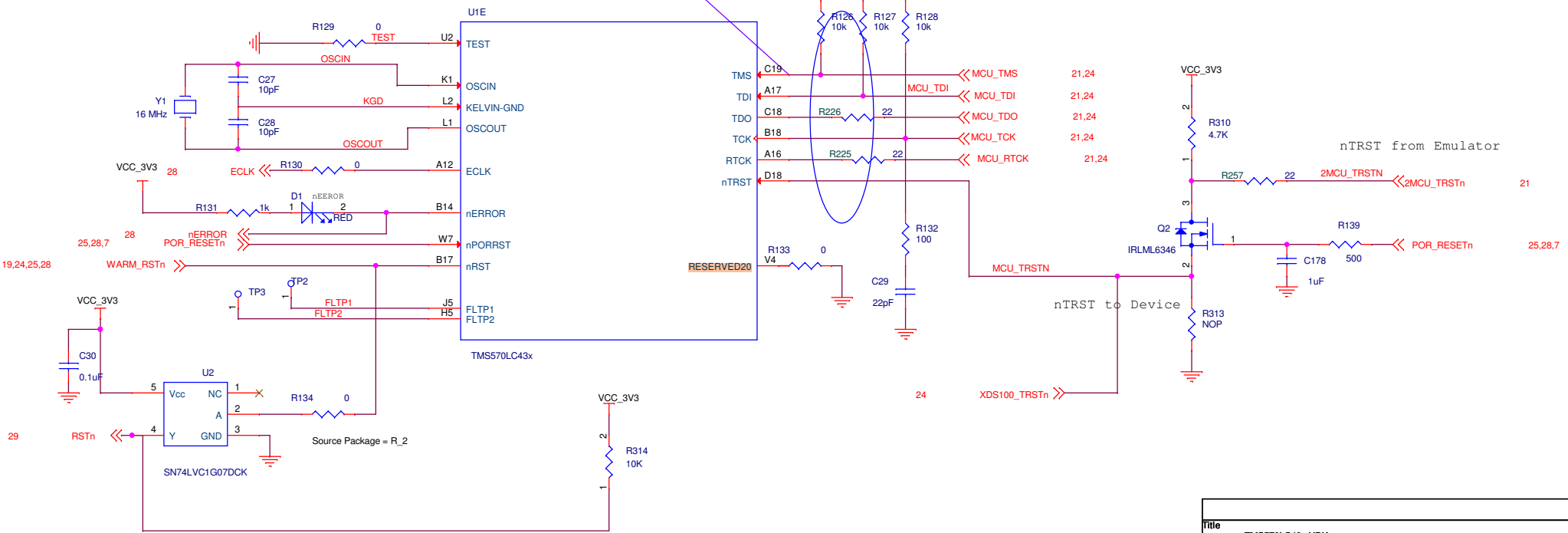




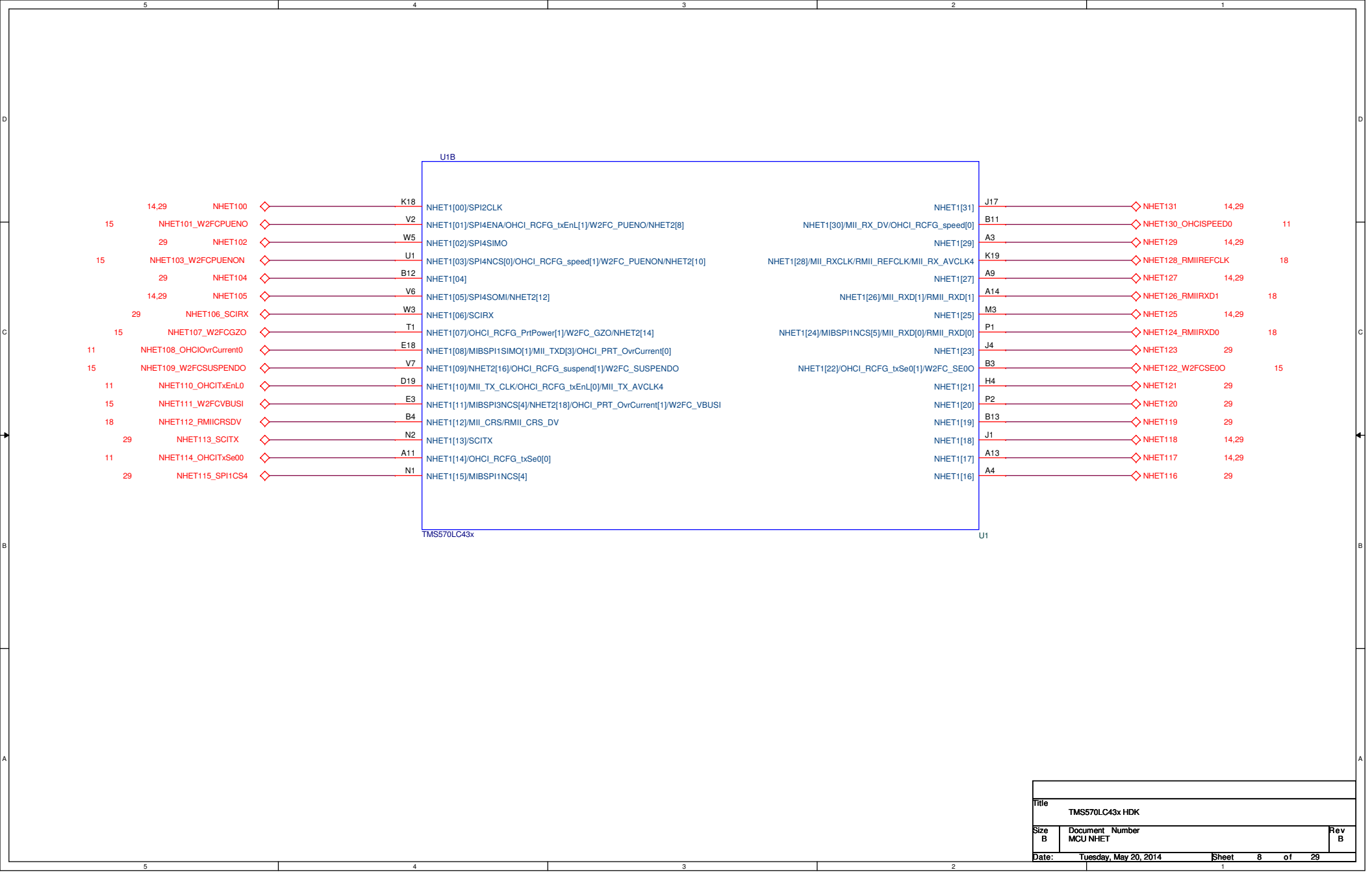
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| Title           |                       |        |         |
| TMS570LC43x HDK |                       |        |         |
| Size            | Document              | Number | Rev     |
| B               | MCU DCAN, FRAY, LIN   |        | D       |
| Date:           | Tuesday, May 20, 2014 | Sheet  | 6 of 29 |



place R225, R226, R132, and C29 close to U1



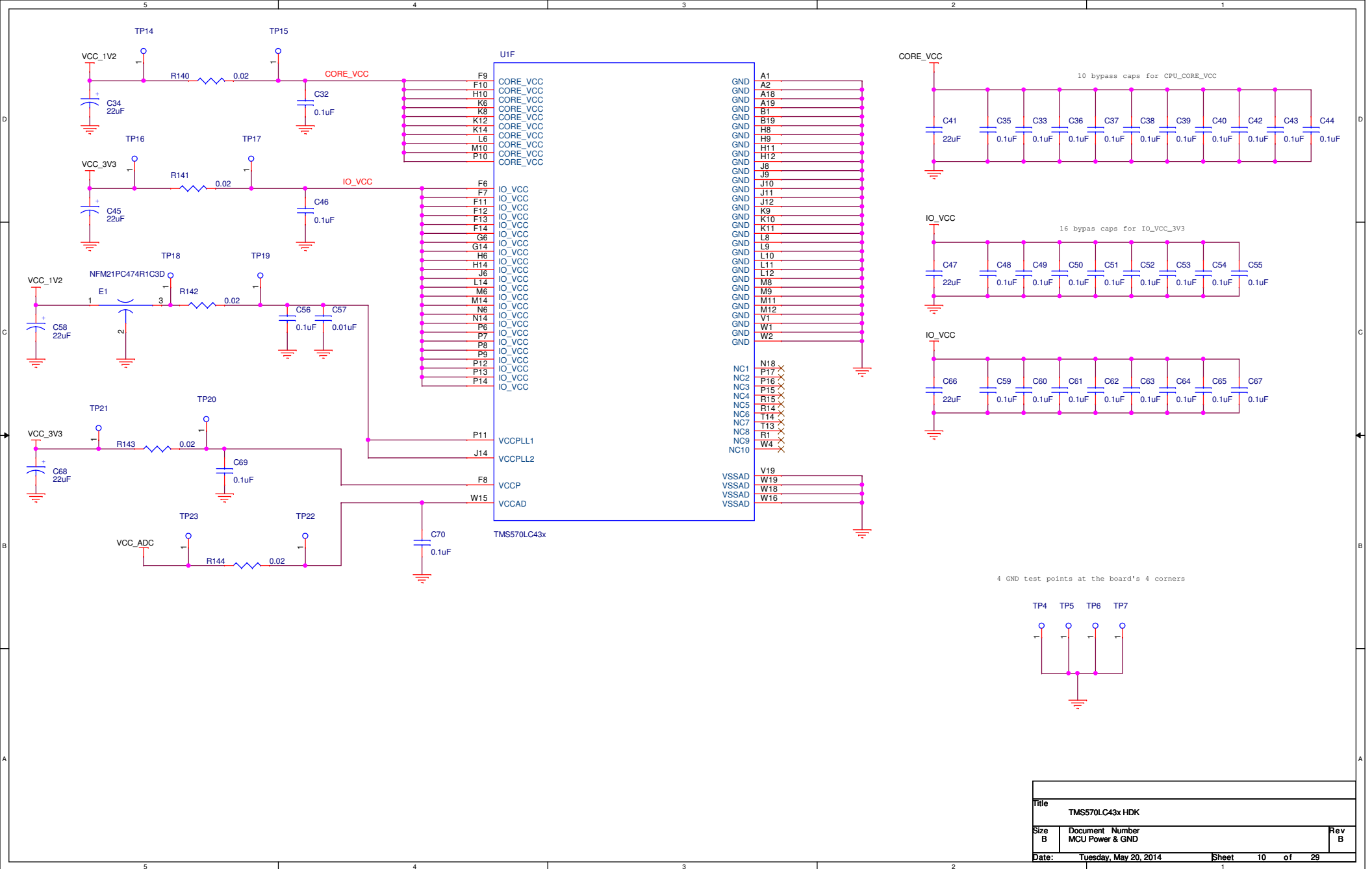
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| TMS570LC43x HDK |                       |               |
| Size            | Document Number       | Rev           |
| B               | MCU JTAG & OSC        | D             |
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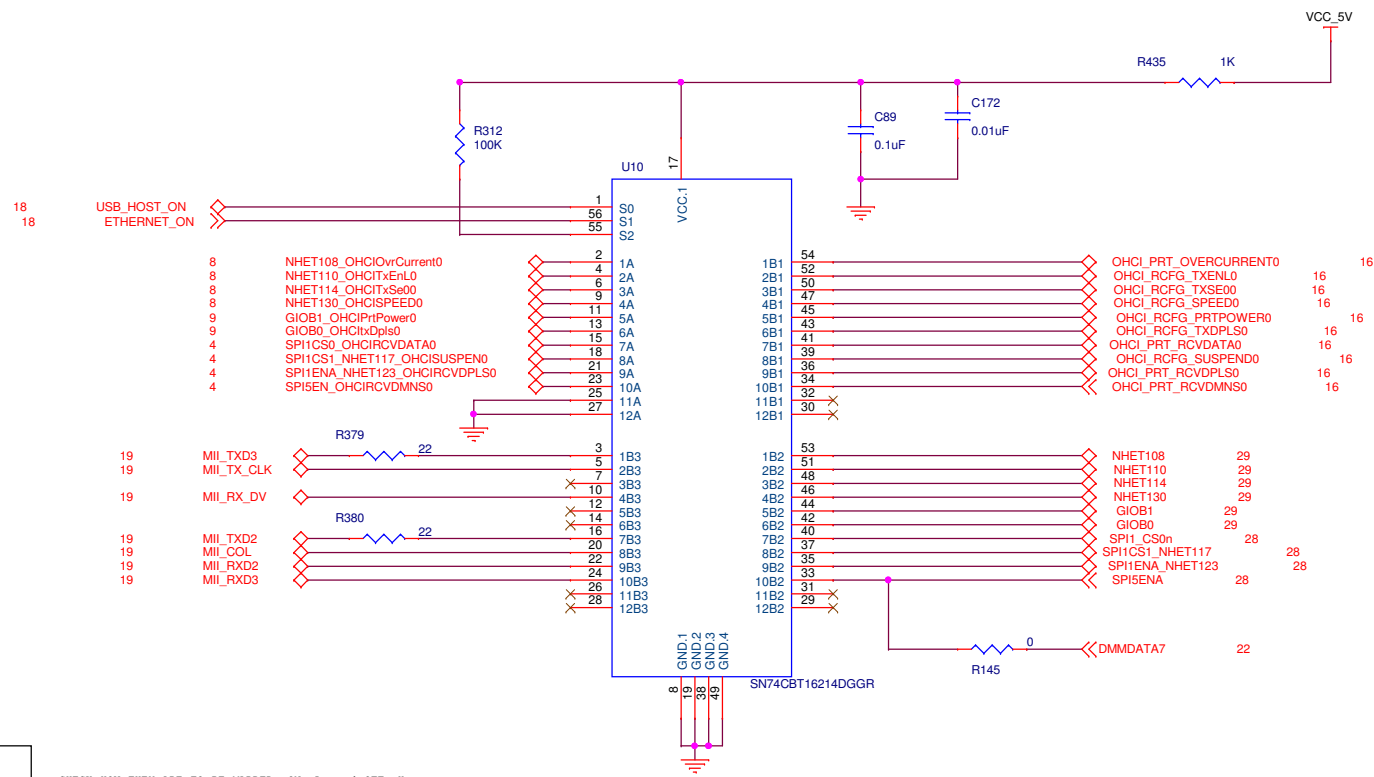
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| Title           |                       |        |         |
| TMS570LC43x HDK |                       |        |         |
| Size B          | Document              | Number | Rev B   |
|                 | MCU NHET              |        |         |
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|                 |                       |        |         |
|-----------------|-----------------------|--------|---------|
| Title           |                       |        |         |
| TMS570LC43x HDK |                       |        |         |
| Size            | Document              | Number | Rev     |
| B               | MCU GPIO              |        | B       |
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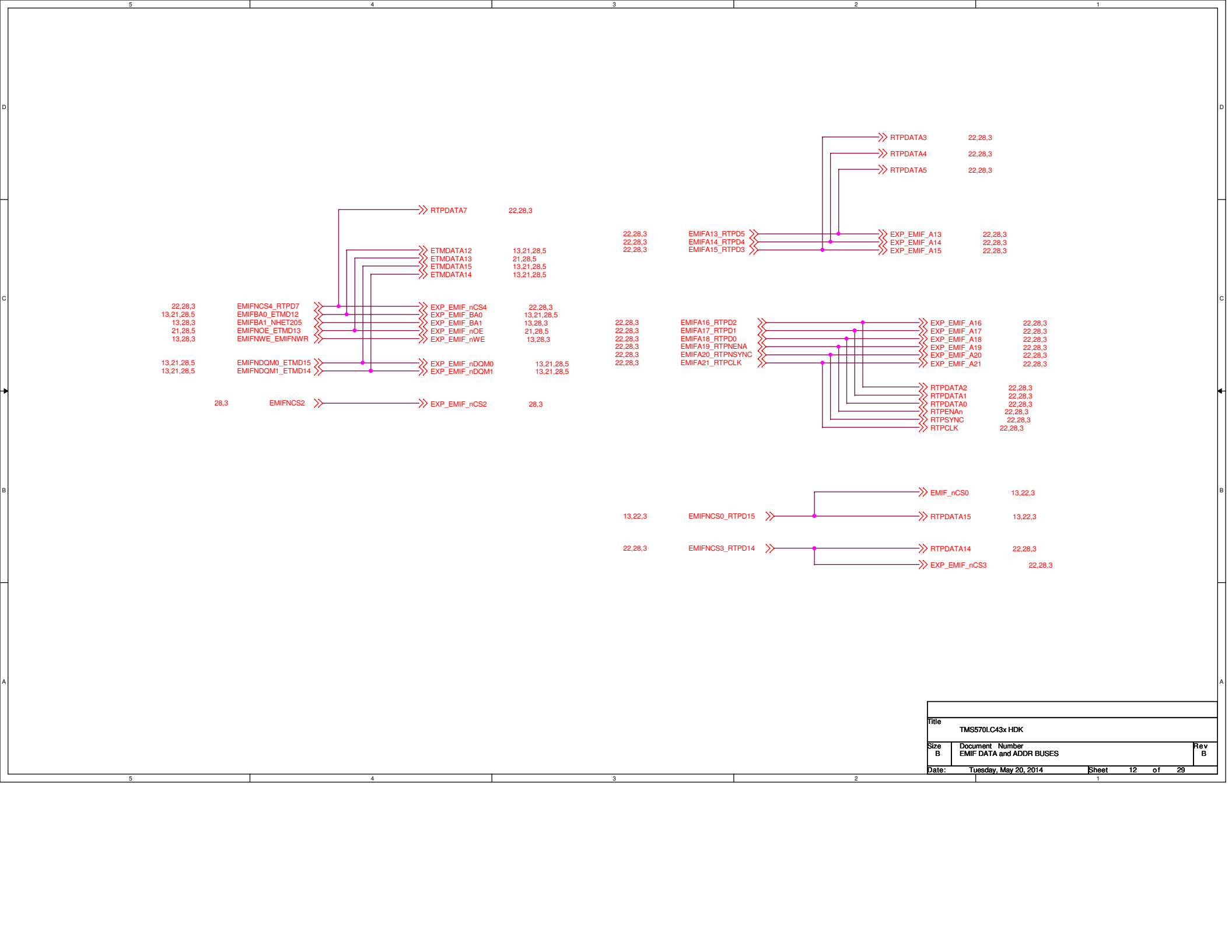
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|-------|-----------------------|--------|-----------------|----------|
| Title |                       |        | TMS570LC43x HDK |          |
| Size  | Document              | Number | Rev             |          |
| B     | MCU Power & GND       |        | B               |          |
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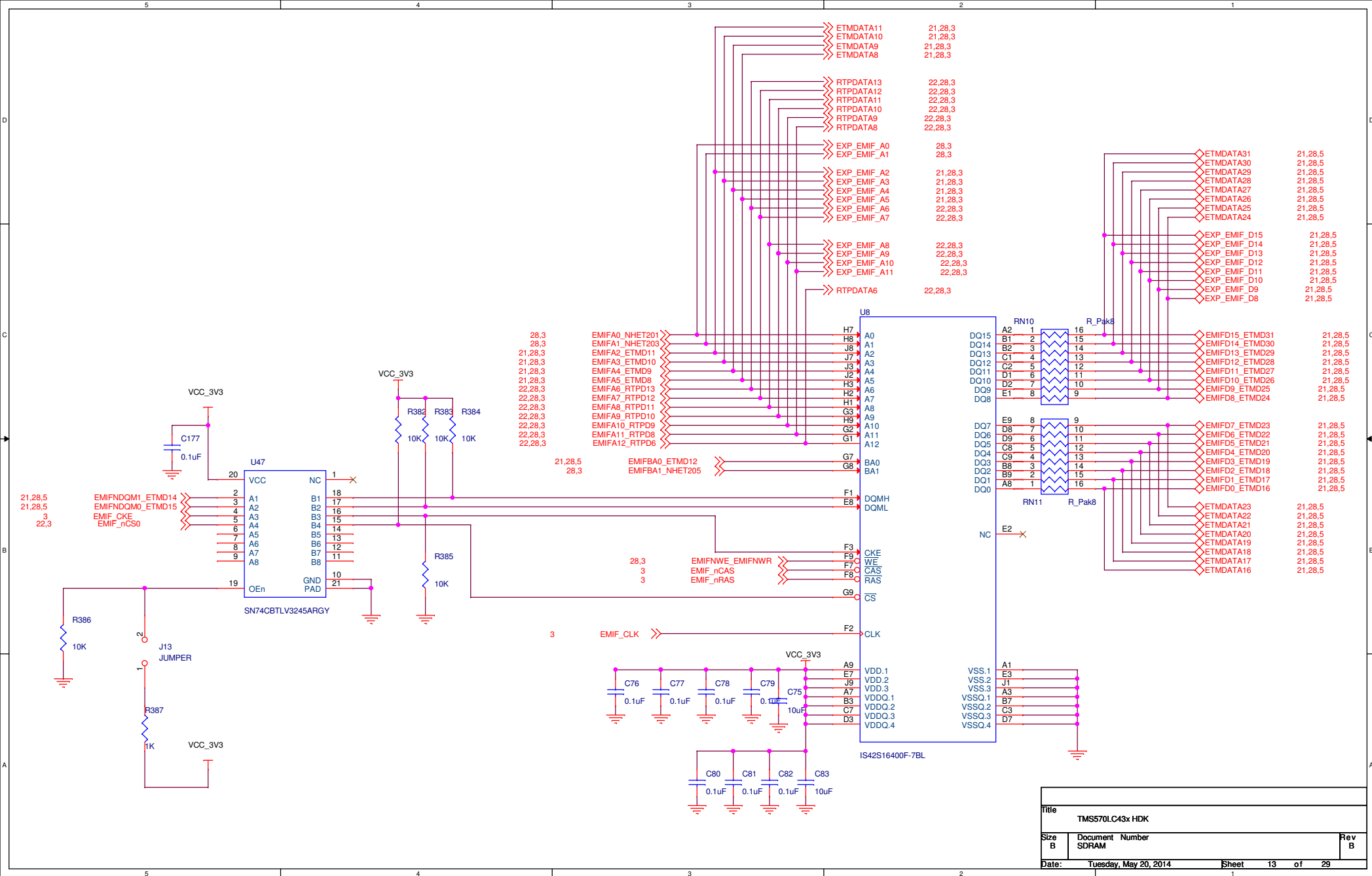


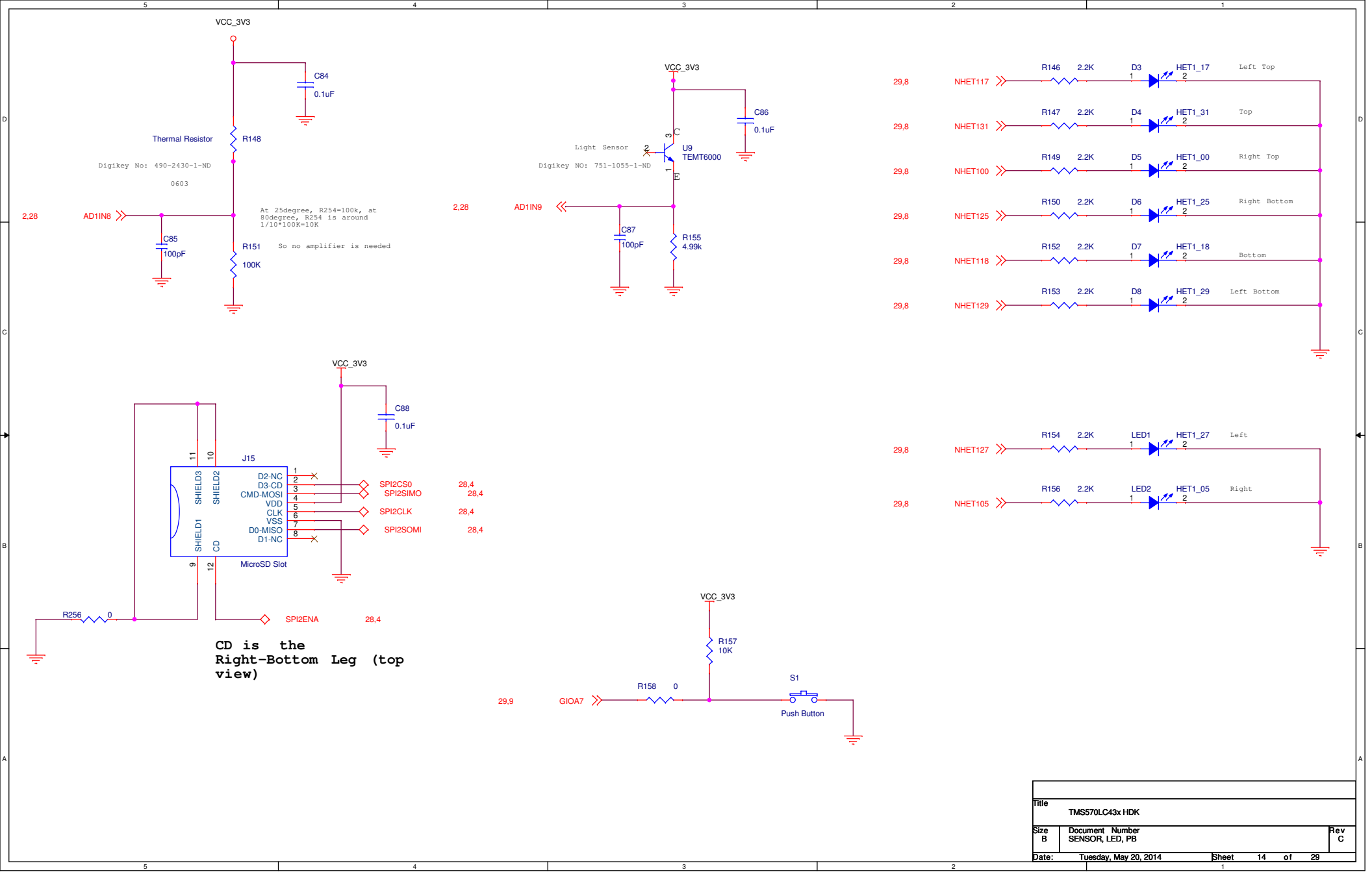
| S2 | S1 | S0 | A     |
|----|----|----|-------|
| 1  | 0  | 0  | Z     |
| 1  | 0  | 1  | B3**  |
| 1  | 1  | 0  | B1 ** |
| 1  | 1  | 1  | B2 ** |

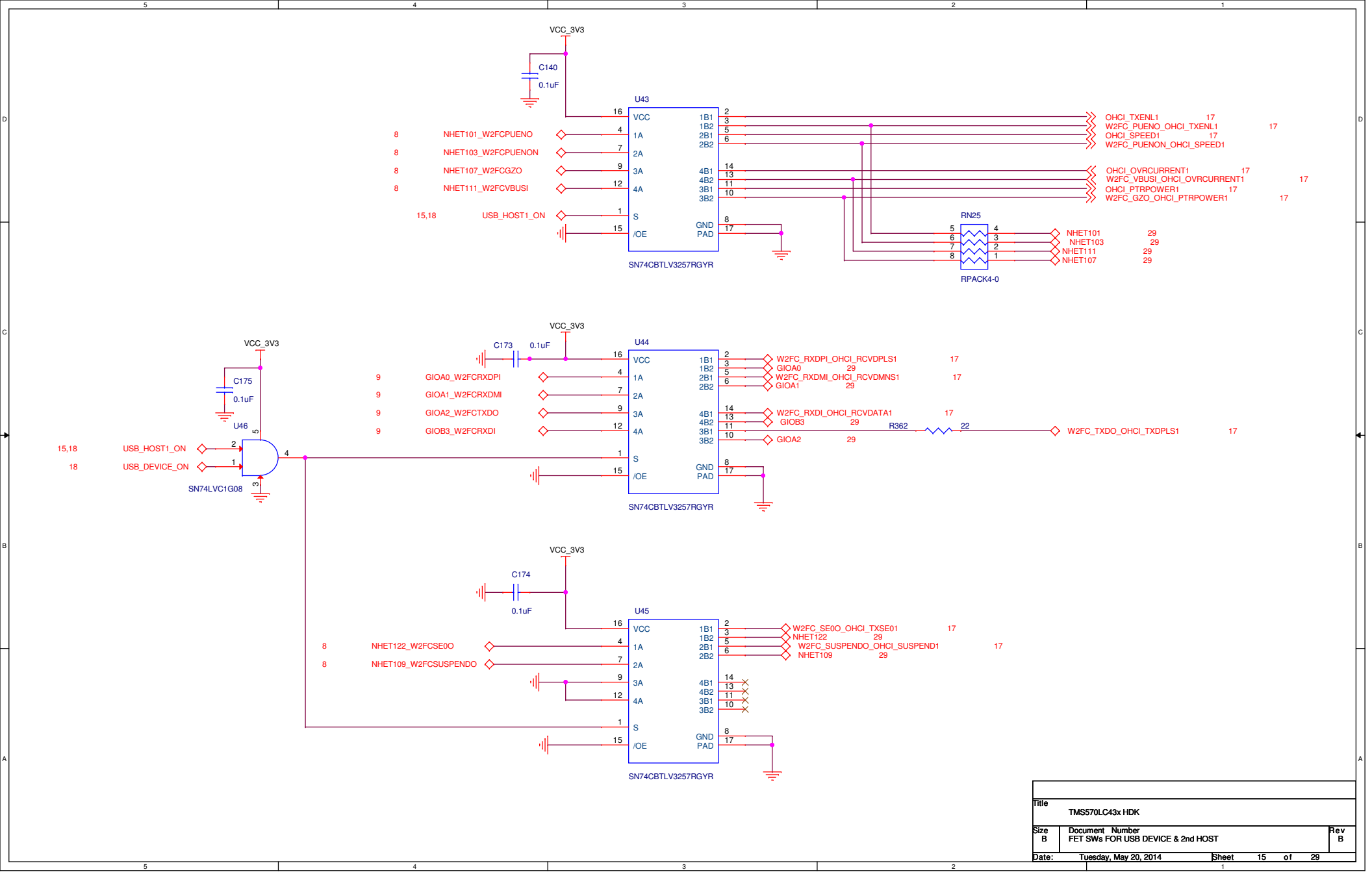
CHECK HOW THEY ARE TO BE MAPPED. ON--L, and OFF--H

|        |                       |        |                          |    |    |
|--------|-----------------------|--------|--------------------------|----|----|
| Title  |                       |        | TMS570LC43x HDK          |    |    |
| Size B | Document              | Number | FET SWs FOR 1st USB HOST |    |    |
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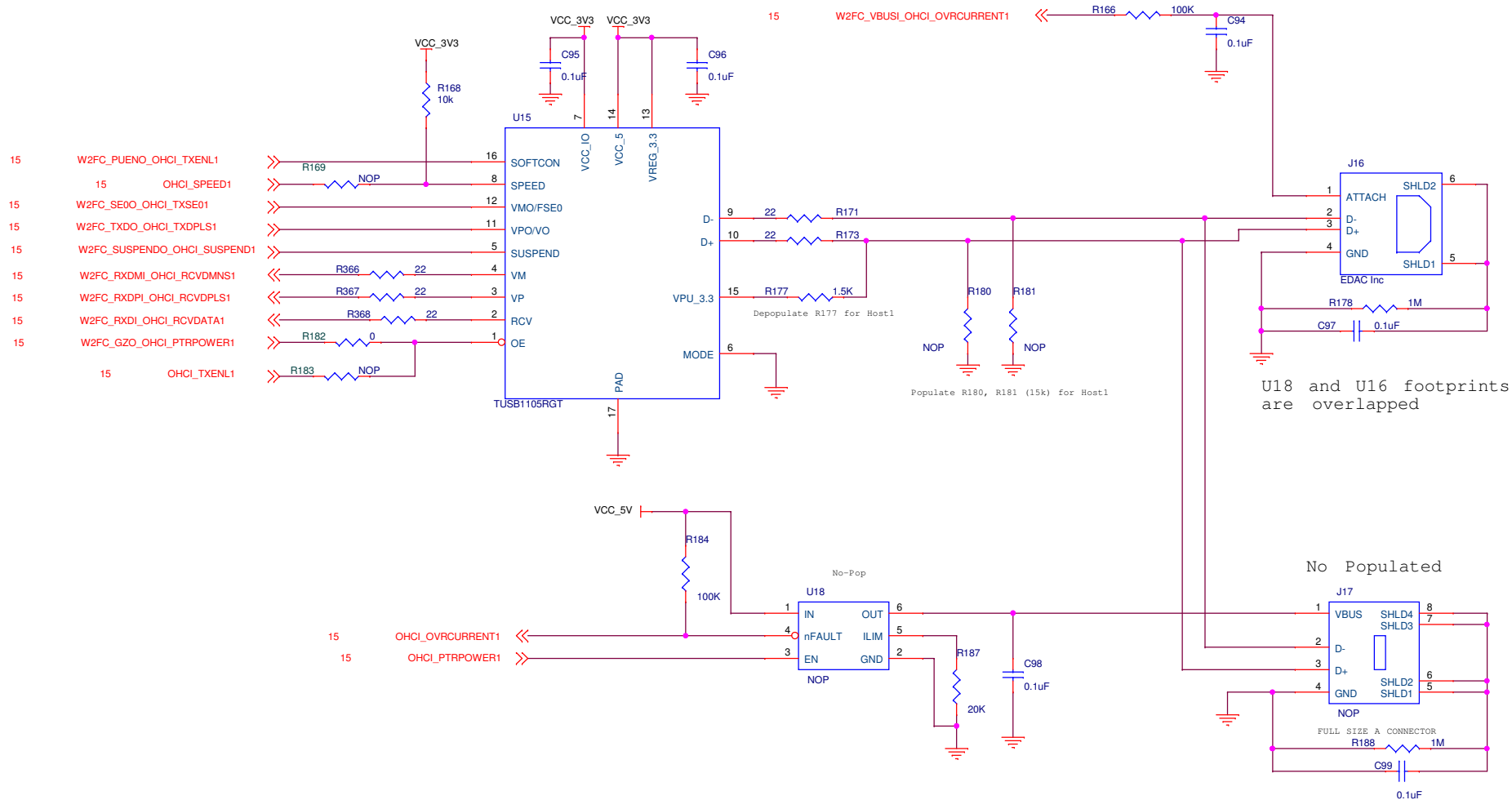




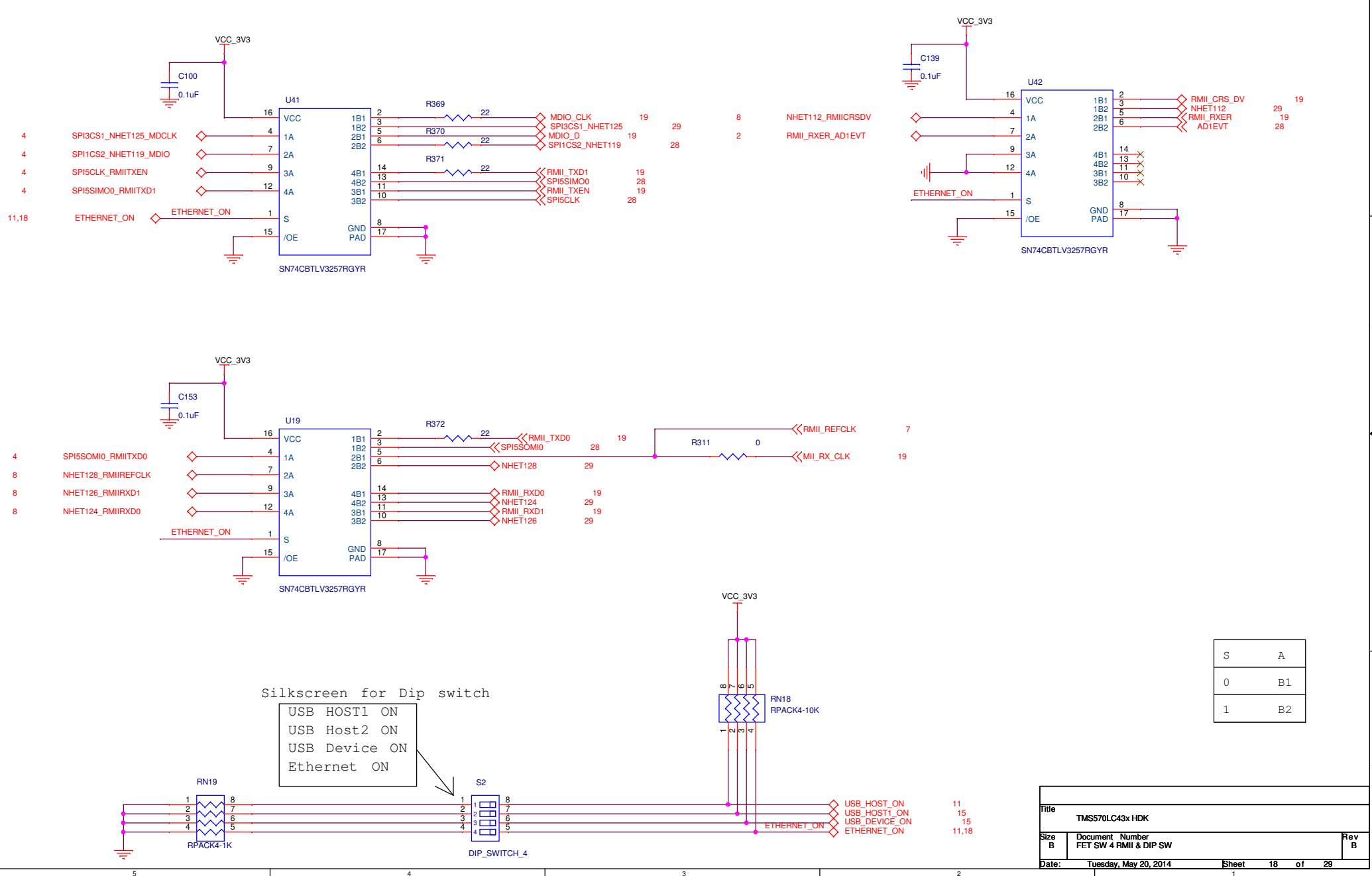


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|-----------------------------------|-----------------------|----------------|
| Title                             |                       |                |
| TMS570LC43x HDK                   |                       |                |
| Size B                            | Document Number       | Rev B          |
| FET SWs FOR USB DEVICE & 2nd HOST |                       |                |
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|                       |                       |                |
|-----------------------|-----------------------|----------------|
| Title                 |                       |                |
| TMS570LC43x HDK       |                       |                |
| Size B                | Document Number       | Rev B          |
| USB Device & 2nd HOST |                       |                |
| Date:                 | Tuesday, May 20, 2014 | Sheet 17 of 29 |

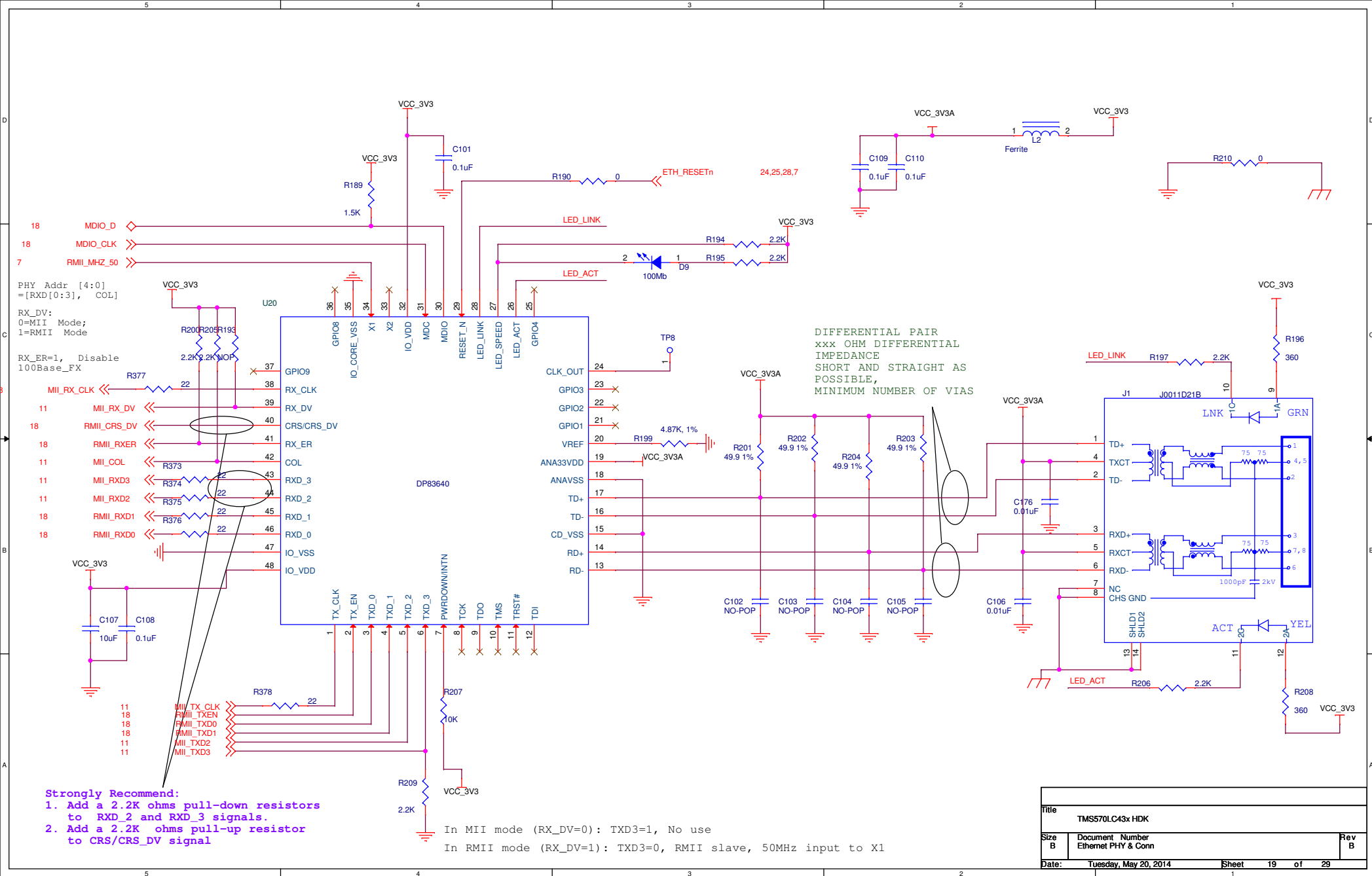


Silkscreen for Dip switch

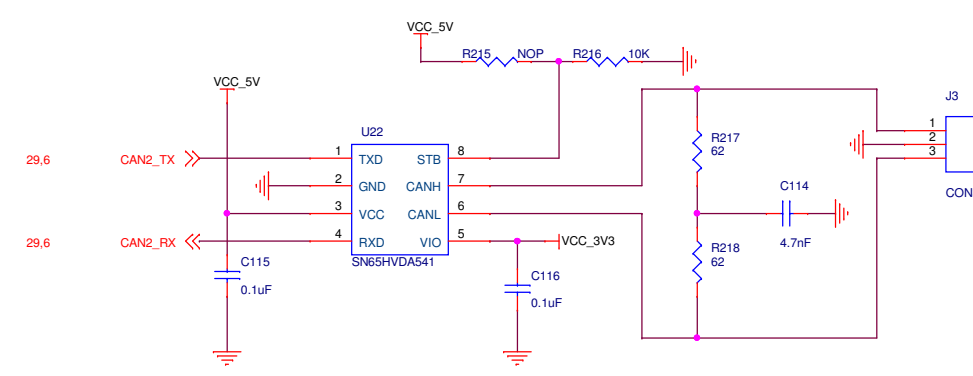
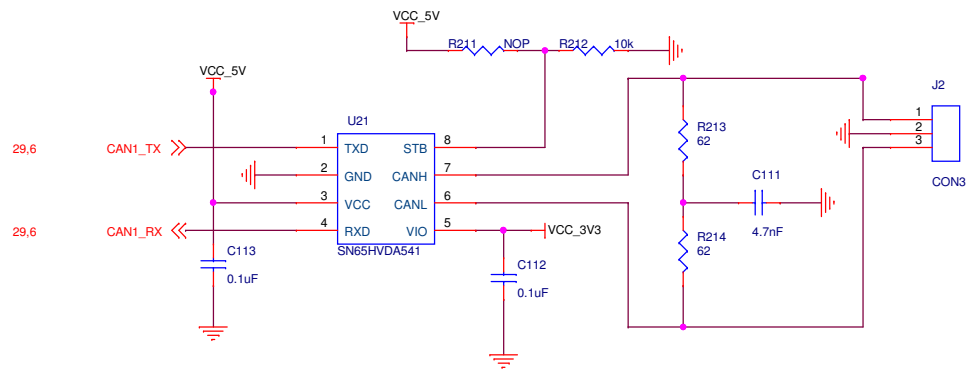
USB HOST1 ON  
USB Host2 ON  
USB Device ON  
Ethernet ON

|   |    |
|---|----|
| S | A  |
| 0 | B1 |
| 1 | B2 |

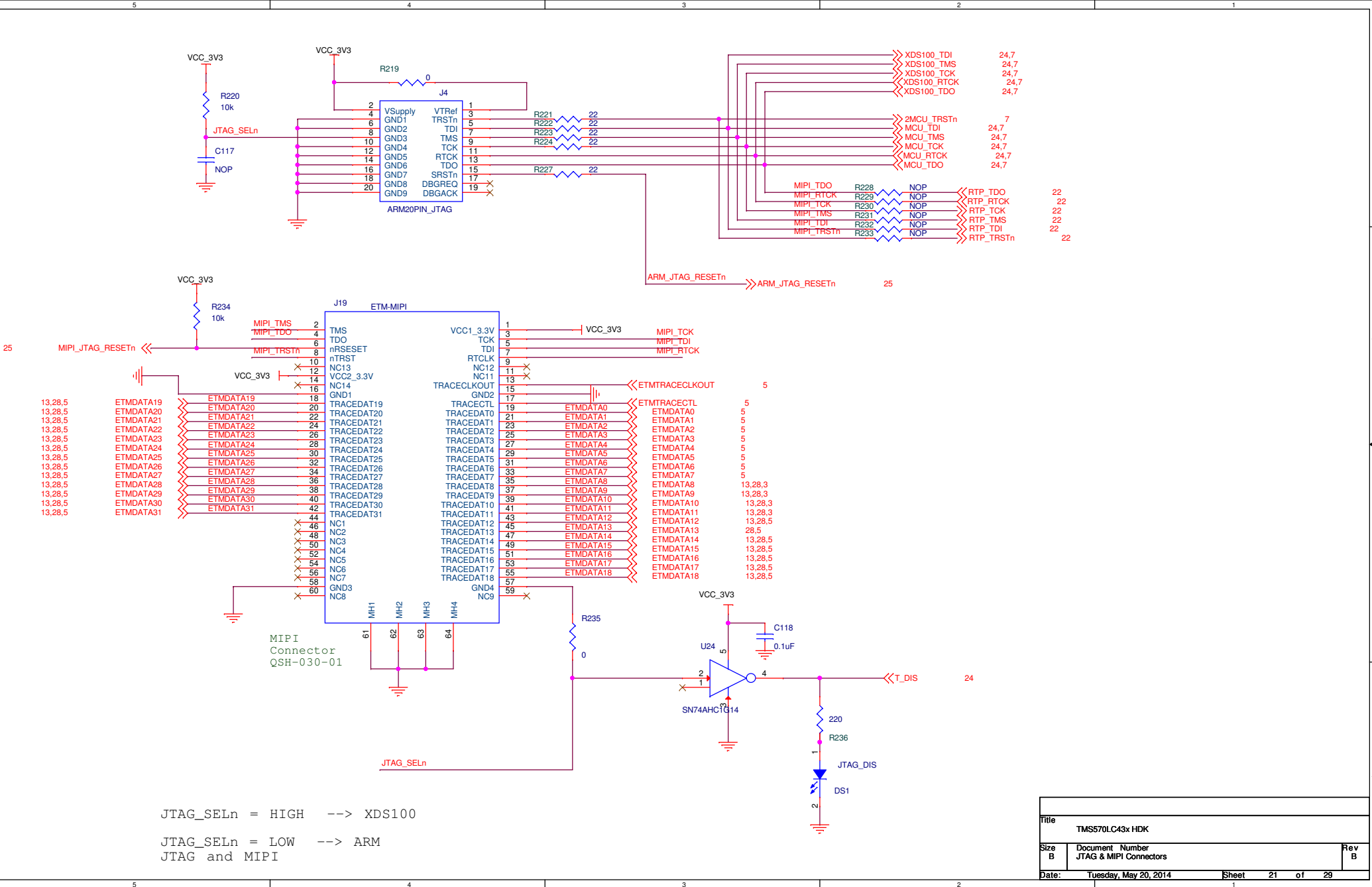
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|-----------------|-------------------------------------------|----------------|
| Title           |                                           |                |
| TMS570LC43x HDK |                                           |                |
| Size B          | Document Number<br>FET SW 4 RMII & DIP SW | Rev B          |
| Date:           | Tuesday, May 20, 2014                     | Sheet 18 of 29 |



|                 |                                     |                |       |
|-----------------|-------------------------------------|----------------|-------|
| Title           |                                     |                |       |
| TMS570LC43x HDK |                                     |                |       |
| Size B          | Document Number Ethernet PHY & Conn |                | Rev B |
| Date:           | Tuesday, May 20, 2014               | Sheet 19 of 29 |       |



|                 |                                      |       |          |
|-----------------|--------------------------------------|-------|----------|
|                 |                                      |       |          |
| Title           |                                      |       |          |
| TMS570LC43x HDK |                                      |       |          |
| Size B          | Document Number<br>DCAN Transceivers |       | Rev B    |
| Date:           | Tuesday, May 20, 2014                | Sheet | 20 of 29 |

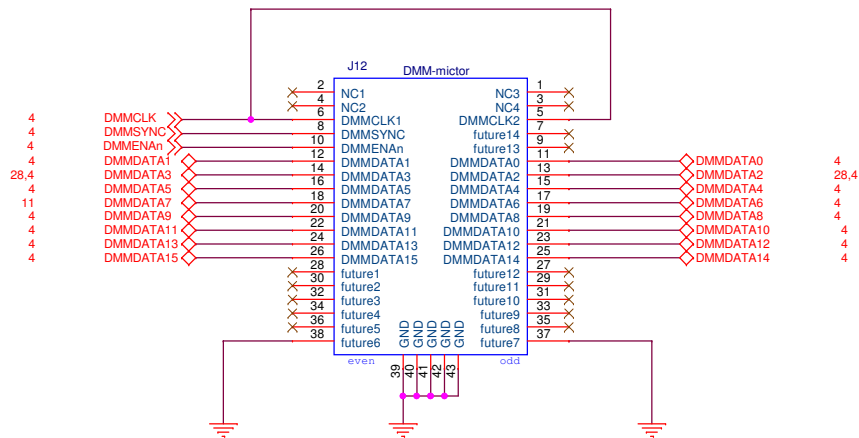


JTAG\_SELn = HIGH --> XDS100

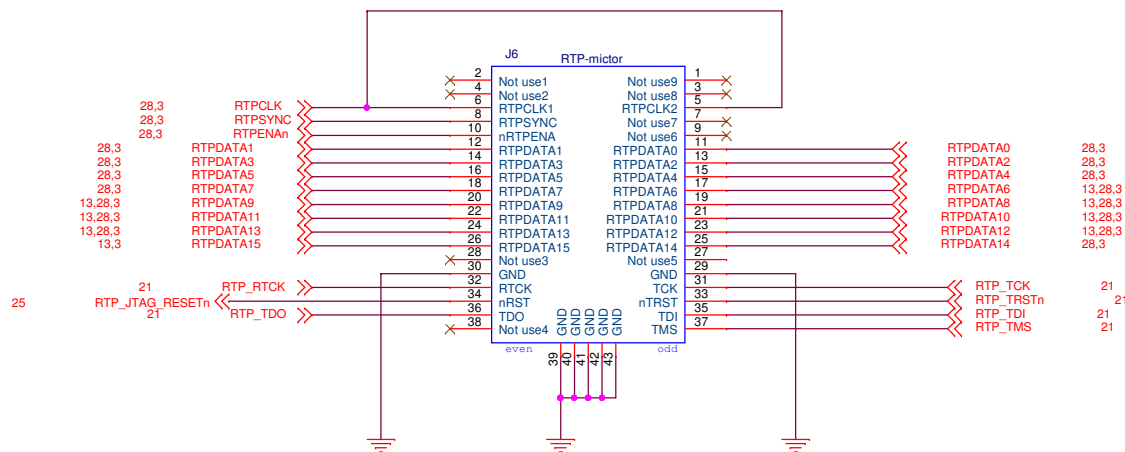
JTAG\_SELn = LOW --> ARM

JTAG and MIPI

|                        |                       |                |
|------------------------|-----------------------|----------------|
| Title                  |                       |                |
| TMS570LC43x HDK        |                       |                |
| Size B                 | Document Number       | Rev B          |
| JTAG & MIPI Connectors |                       |                |
| Date:                  | Tuesday, May 20, 2014 | Sheet 21 of 29 |

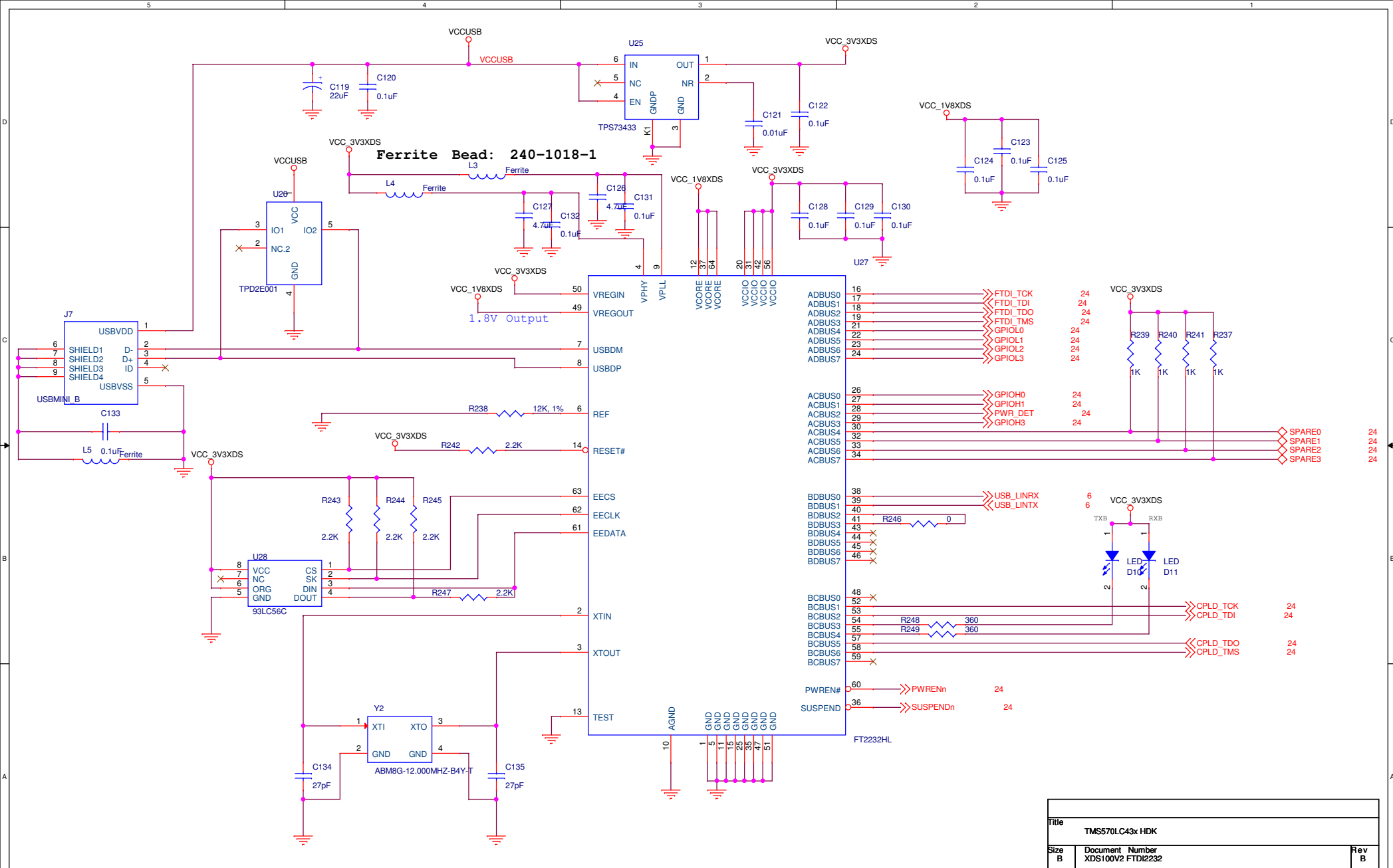


Foot Print Only  
Pin39/40/41/42/43 are the central GND

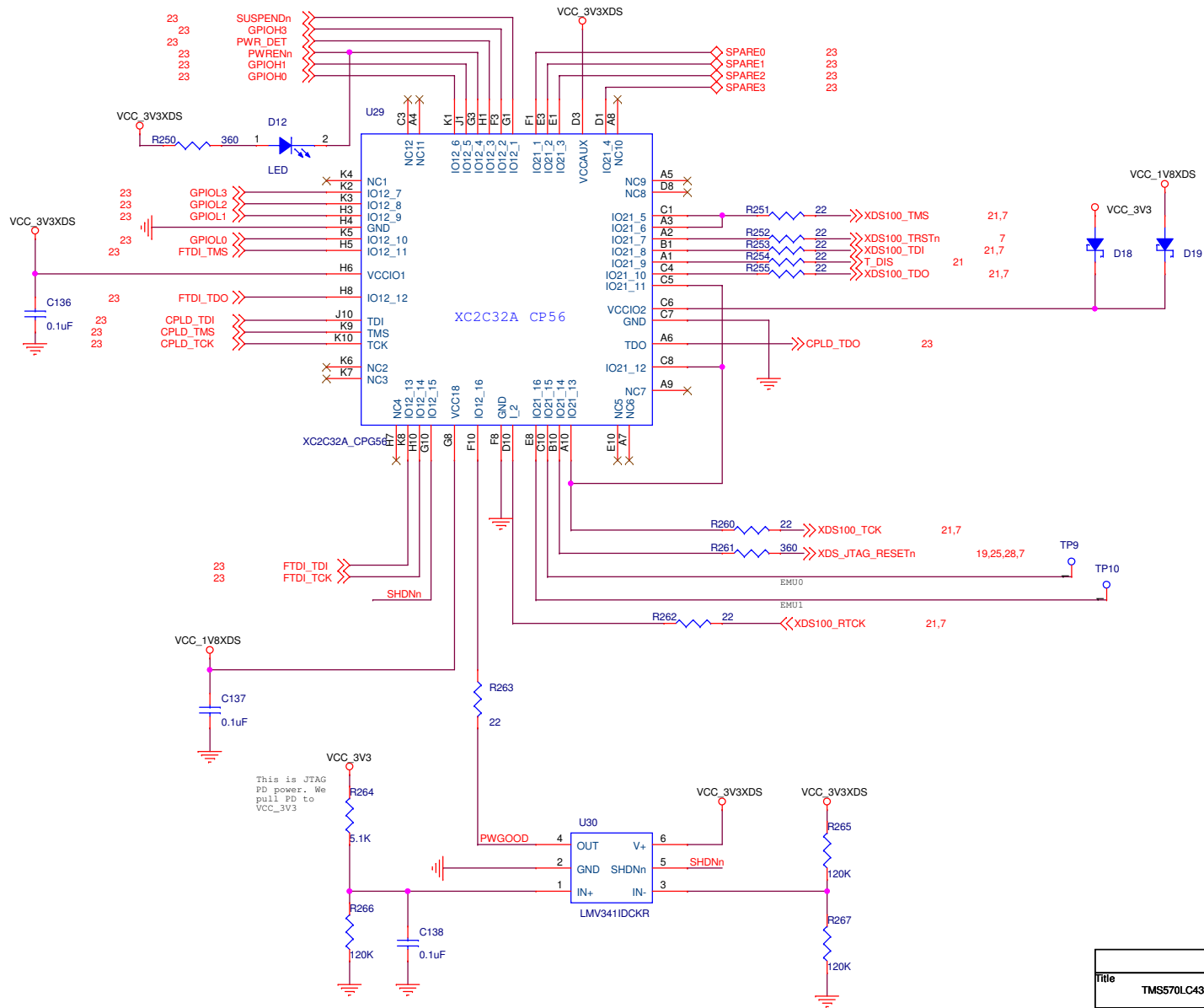


AMP 2-5767004-2  
Receptacle, Center Strip Contacts  
Foot Print Only

|                          |                       |                |
|--------------------------|-----------------------|----------------|
| Title                    |                       |                |
| TMS570LS3x/RM5x CPU CARD |                       |                |
| Size B                   | Document Number       | Rev B          |
| DMM and RTP Connectors   |                       |                |
| Date:                    | Tuesday, May 20, 2014 | Sheet 22 of 29 |

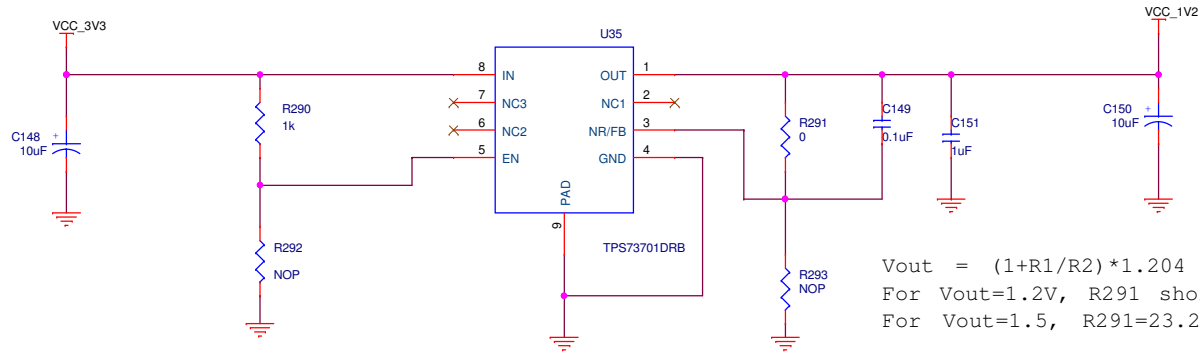


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| Title                       |                   |     |
| TMS570LC43x HDK             |                   |     |
| Size                        | Document Number   | Rev |
| B                           | XDS100V2 FTDI2232 | B   |
| Date: Tuesday, May 20, 2014 |                   |     |
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|                       |          |        |
|-----------------------|----------|--------|
| Title                 |          |        |
| TMS570LC43x HDK       |          |        |
| Size                  | Document | Number |
| B                     | XDS100V2 | CPLD   |
| Date:                 |          | Rev    |
| Tuesday, May 20, 2014 |          | B      |
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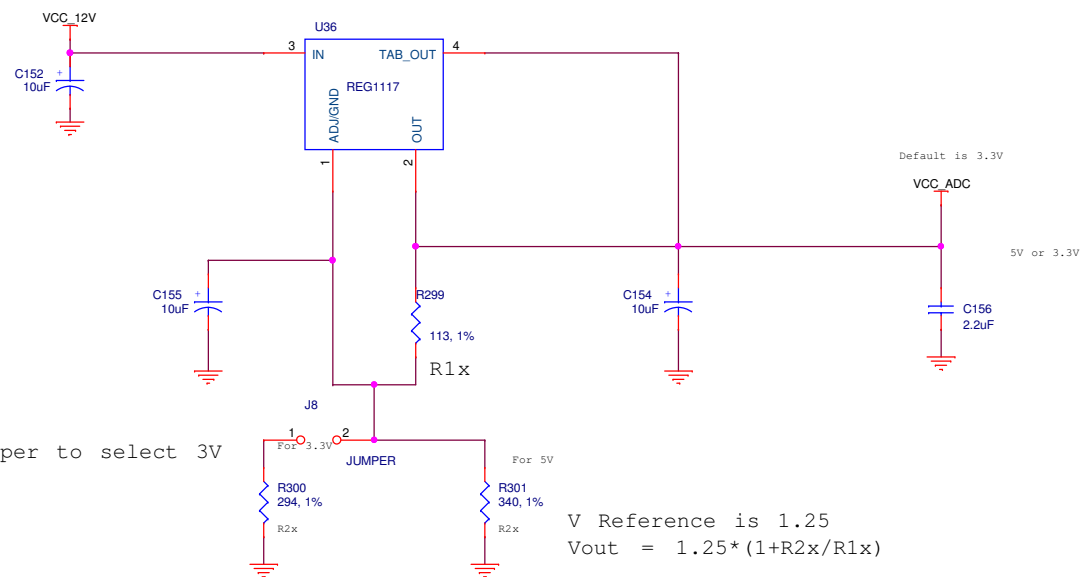
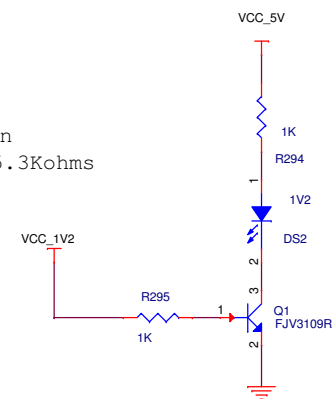


$$V_{out} = (1 + R1/R2) * 1.204$$

For  $V_{out}=1.2V$ , R291 shorted, and R293 Open

For  $V_{out}=1.5$ , R291=23.2Kohms, and R293=95.3Kohms

R281: ERJ-2RKF2322X



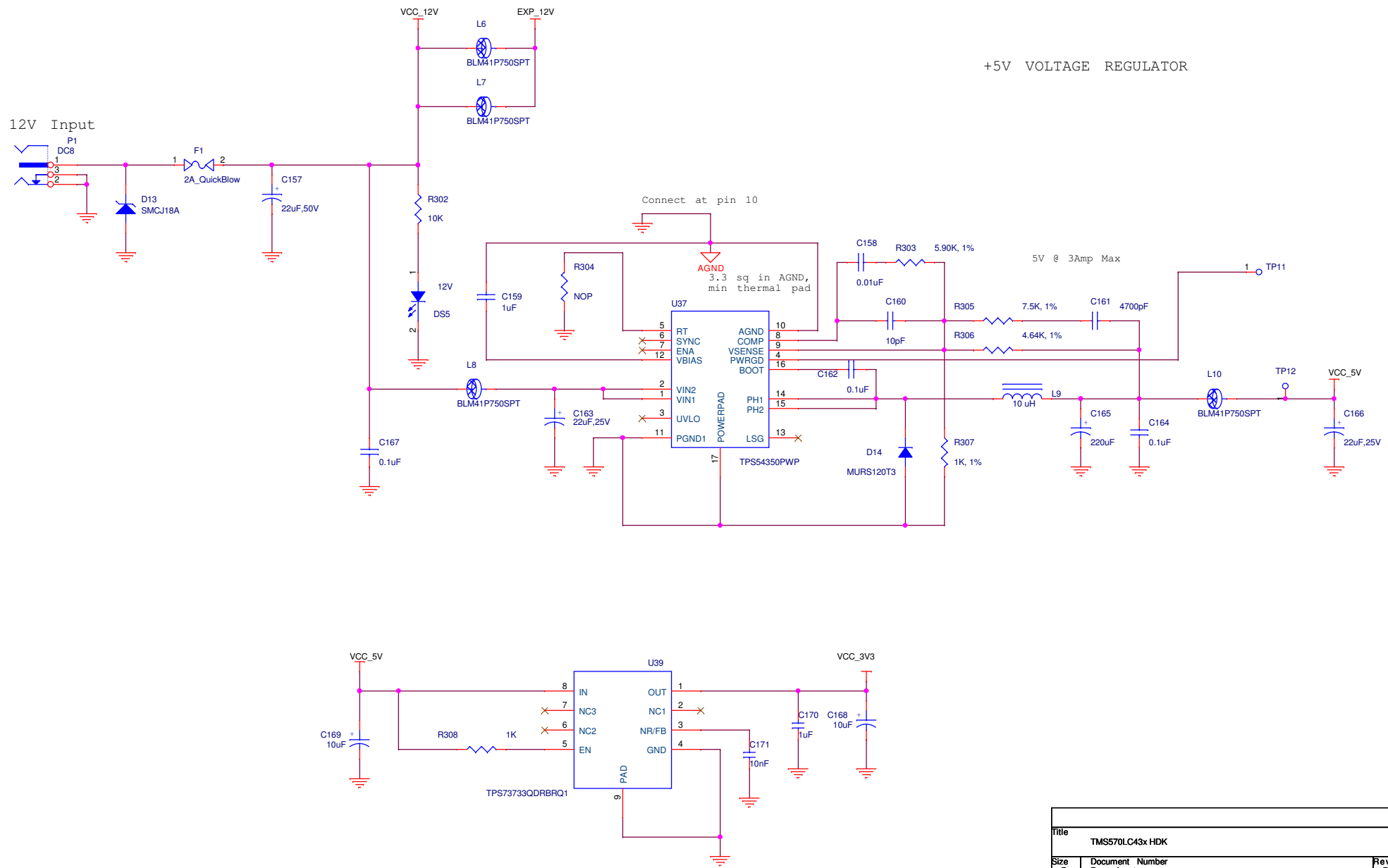
use jumper to select 3V

V Reference is 1.25

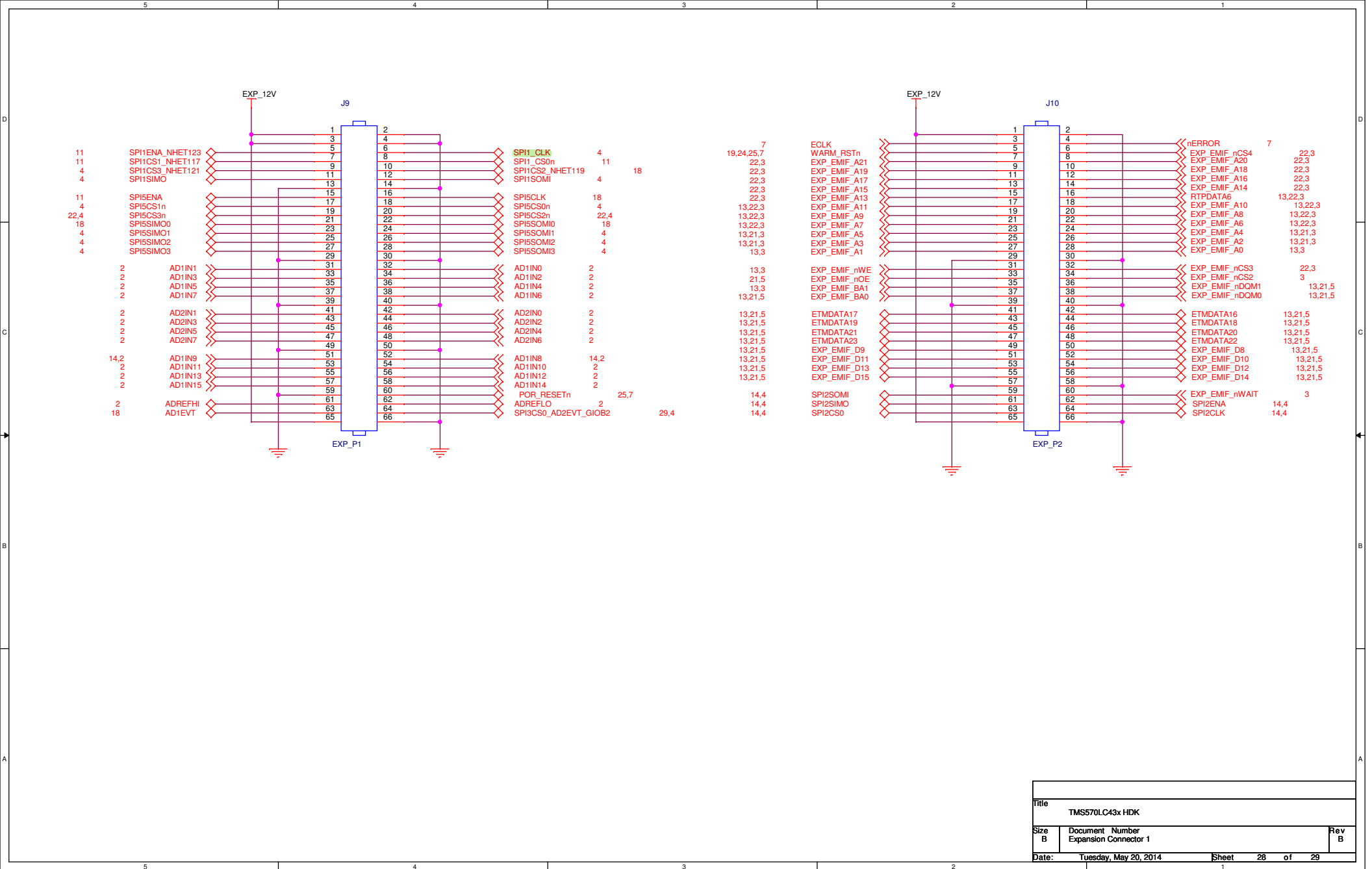
$$V_{out} = 1.25 * (1 + R2x/R1x)$$



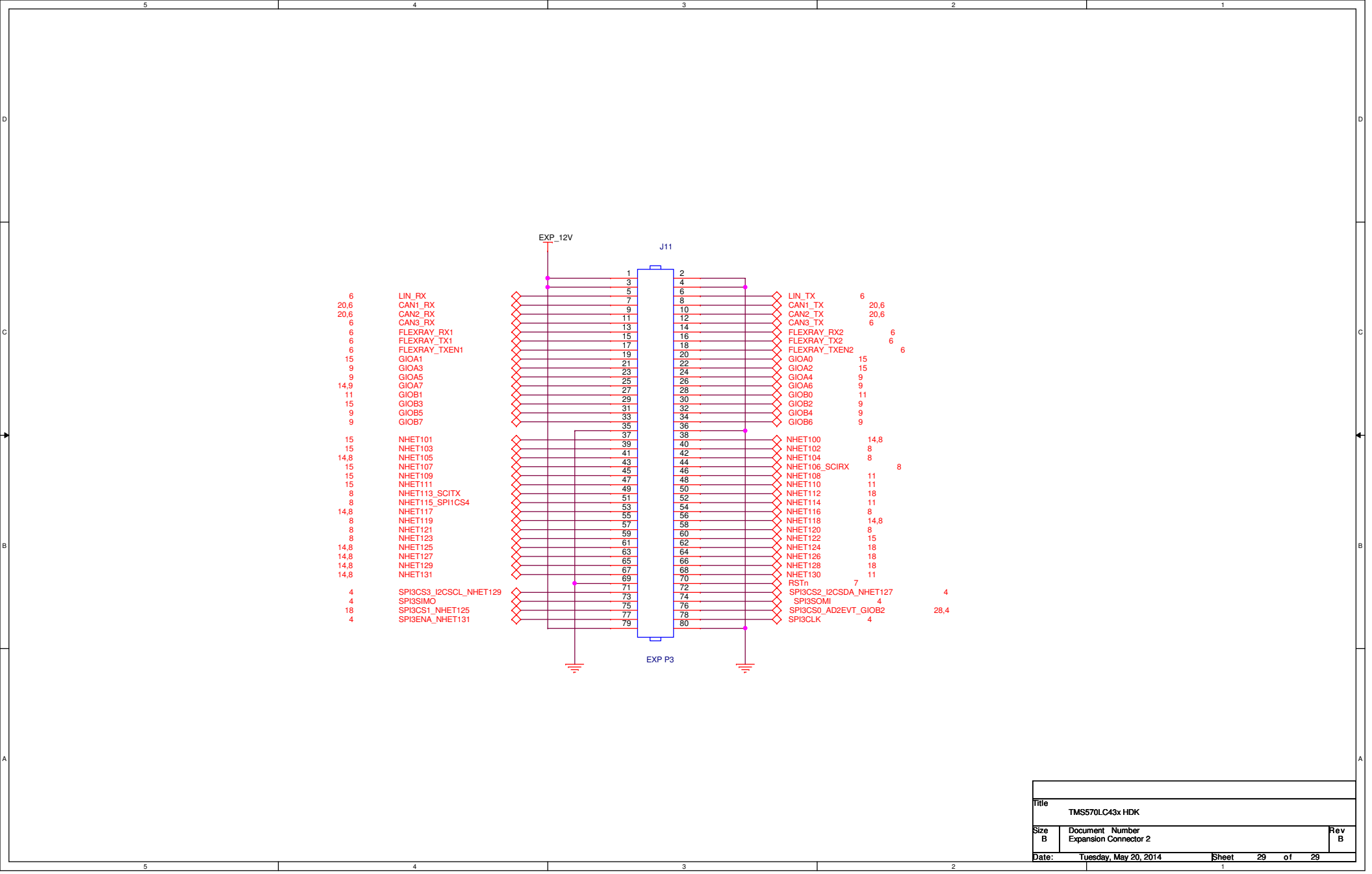
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| Title           |                       |                |
| TMS570LC43x HDK |                       |                |
| Size            | Document              | Rev            |
| B               | Power Supply          | C              |
| Date:           | Tuesday, May 20, 2014 | Sheet 26 of 29 |



|                 |                       |                |
|-----------------|-----------------------|----------------|
| Title           |                       |                |
| TMS570LC43x HDK |                       |                |
| Size            | Document Number       | Rev            |
| B               | Power Input           | B              |
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|                 |                                          |                |       |
|-----------------|------------------------------------------|----------------|-------|
| Title           |                                          |                |       |
| TMS570LC43x HDK |                                          |                |       |
| Size B          | Document Number<br>Expansion Connector 1 |                | Rev B |
| Date:           | Tuesday, May 20, 2014                    | Sheet 28 of 29 |       |



|                 |                       |             |          |
|-----------------|-----------------------|-------------|----------|
| Title           |                       |             |          |
| TMS570LC43x HDK |                       |             |          |
| Size            | Document              | Number      | Rev      |
| B               | Expansion             | Connector 2 | B        |
| Date:           | Tuesday, May 20, 2014 | Sheet       | 29 of 29 |