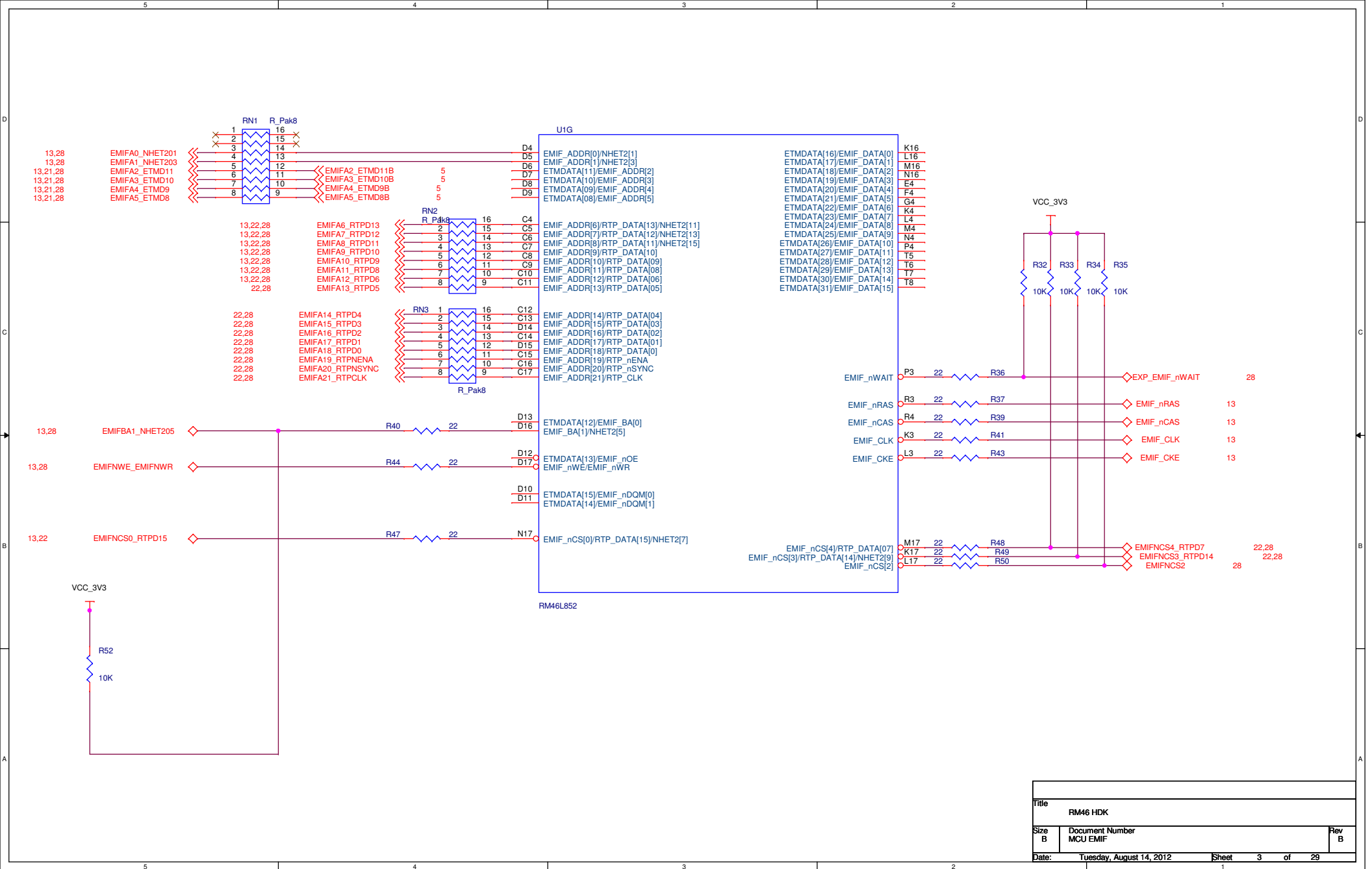


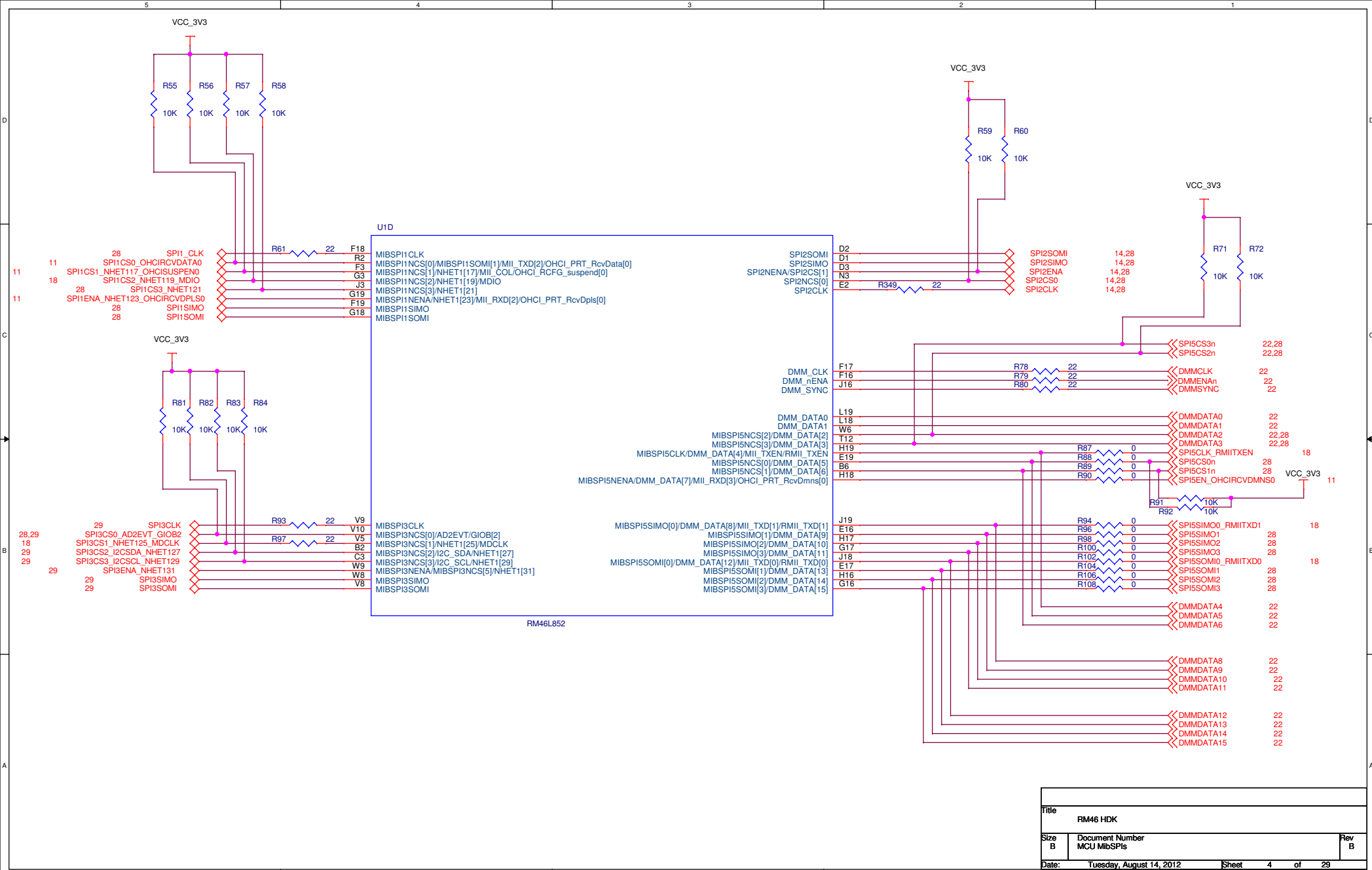
SCHEMATIC CONTENTS

- ```
01 TITLE SHEET
02 MCU ADC
03 MCU EMIF
04 MCU SPI
05 MCU ETM
06 MCU DCAN, FLEXRAY, and LIN
07 MCU JTAG and OSC
08 MCU NHET
09 MCU GPIO
10 MCU Power & GND
11 FETSwitches for 1st USB
12 EMIF Addr/ETM/RTP
13 SDRAM
14 Sensors, LEDs, and Pushbutton
15 FET Switches for 2nd USB
16 USB 1st OHCI Host
17 USB device and 2nd OHCI Host
18 FET Switch for RMII and DIP Switch
19 Ethernet PHY & Connector
20 CAN Transceivers
21 JTAG and MIPI ETM Connector
22 DMM and RTP Mictor Connectors
23 XD100V2 FTDI2232
24 XDS100V2 CPLD
25 RESET
26 Power Supply
27 Power Inut
28 EXP P1 and EXP P2
29 EXP P3
```

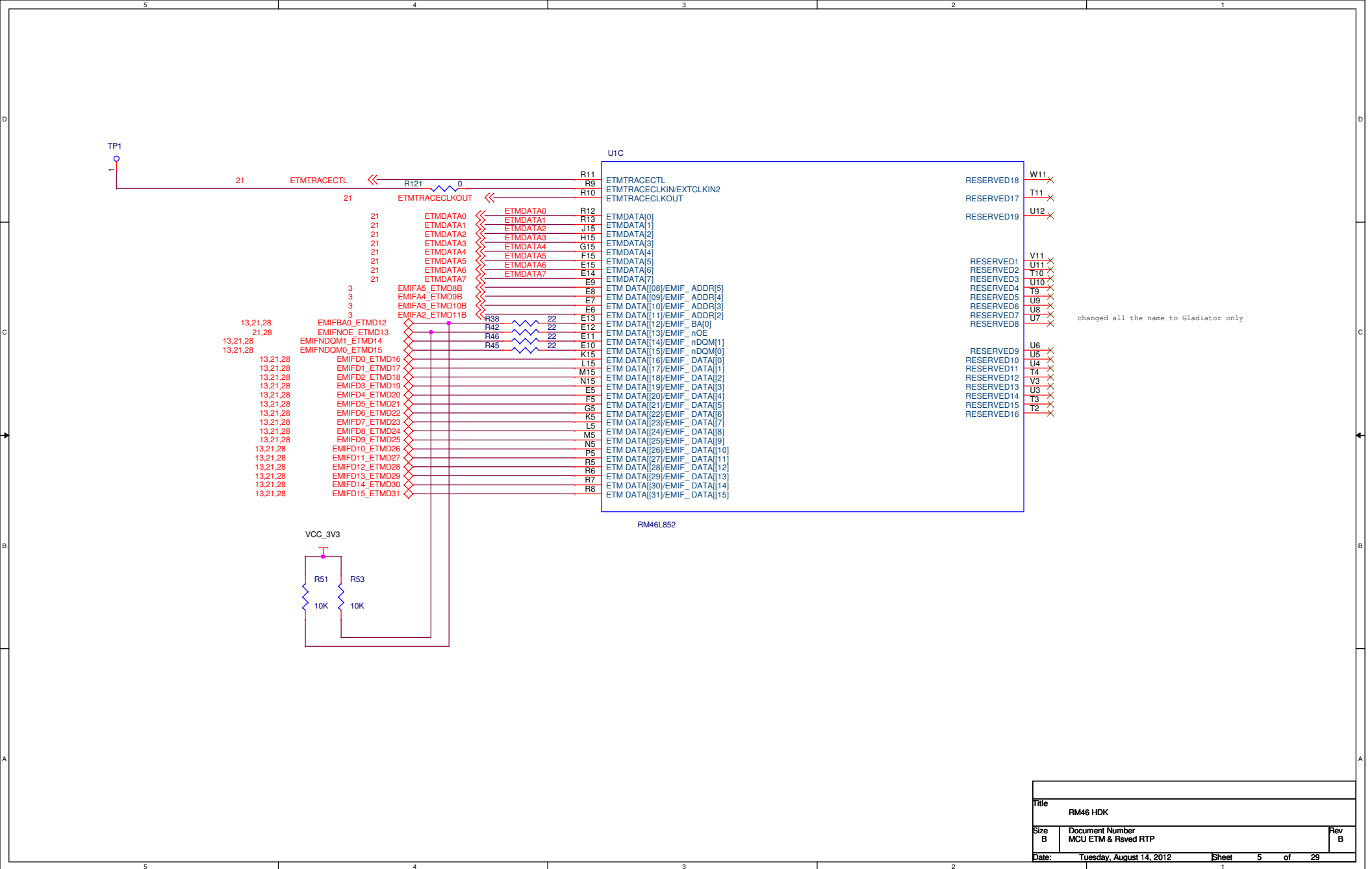
|                              |                          |       |          |
|------------------------------|--------------------------|-------|----------|
| <b>Texas Instruments Inc</b> |                          |       |          |
| Title<br>RM46 HDK            |                          |       |          |
| Size<br>A                    | Document Number<br>TITLE |       | Rev<br>B |
| Date:                        | Wednesday, July 31, 2013 | Sheet | 1 of 29  |





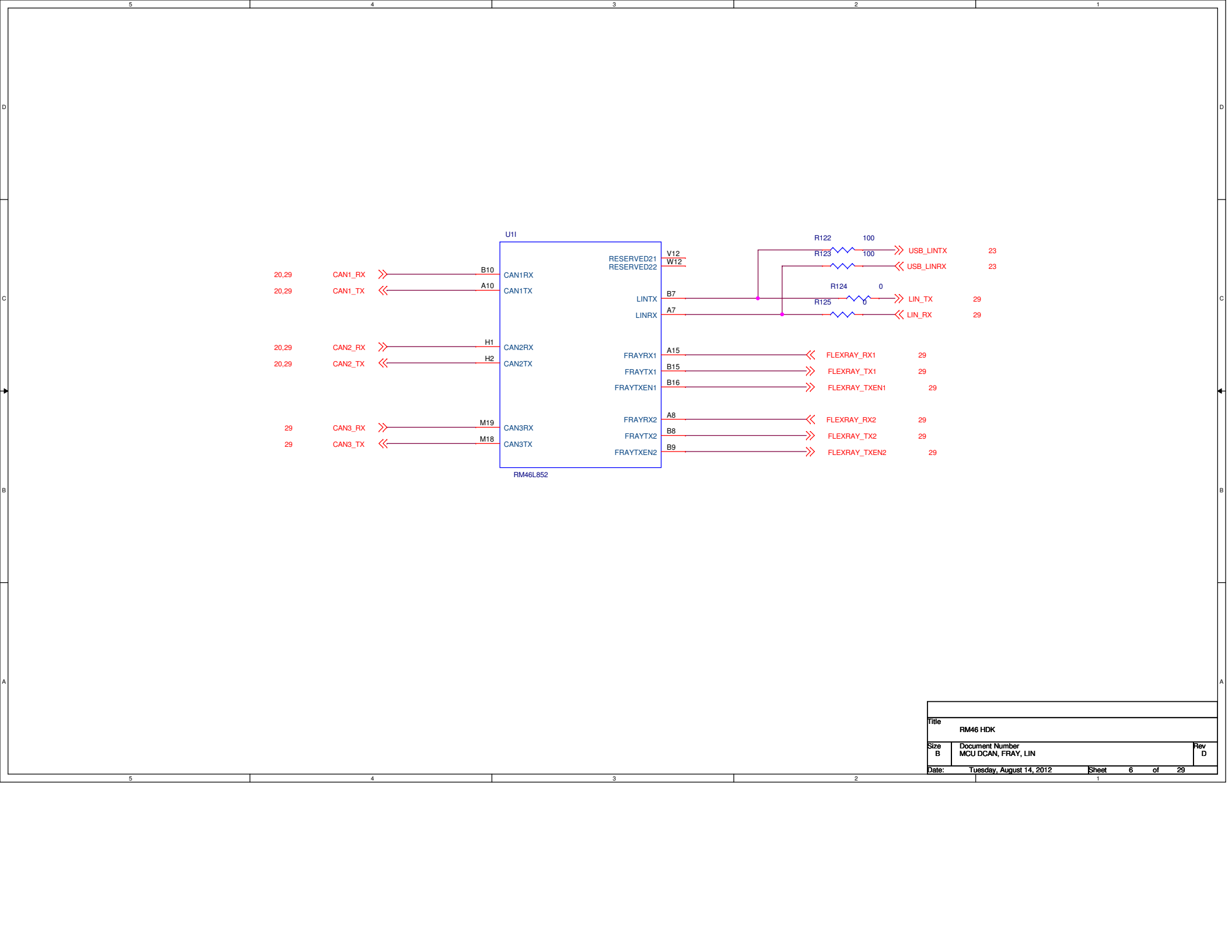


|          |                               |               |       |
|----------|-------------------------------|---------------|-------|
| Title    |                               |               |       |
| RM46 HDK |                               |               |       |
| Size B   | Document Number<br>MCU MibSPs |               | Rev B |
| Date:    | Tuesday, August 14, 2012      | Sheet 4 of 29 |       |



changed all the name to Gladiator only

|          |                          |       |   |       |
|----------|--------------------------|-------|---|-------|
|          |                          |       |   |       |
| Title    |                          |       |   |       |
| RM46 HDK |                          |       |   |       |
| Size     | Document Number          |       |   | Rev   |
| B        | MCU ETM & Raved RTP      |       |   | B     |
| Date:    | Tuesday, August 14, 2012 | Sheet | 5 | of 29 |
|          |                          | 1     |   |       |



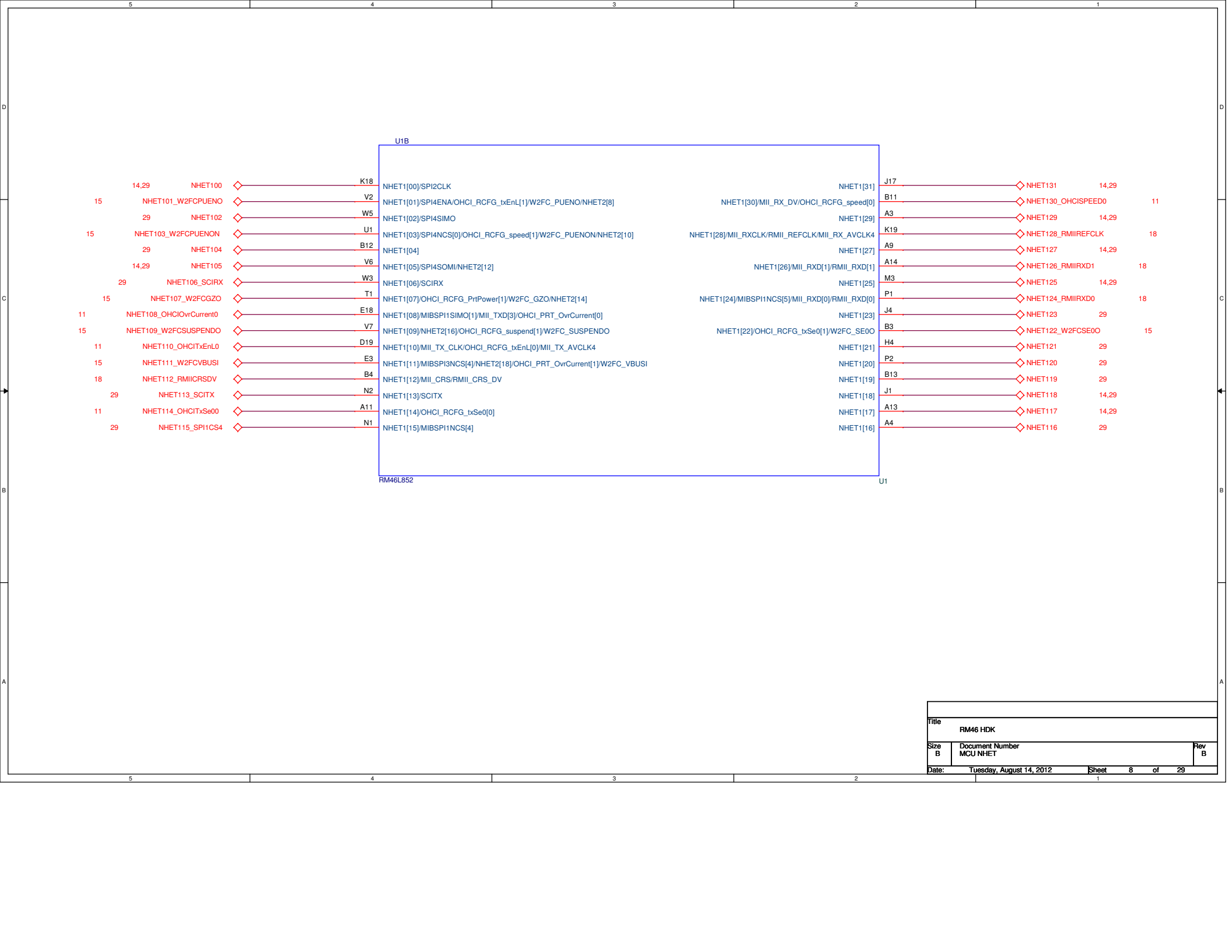
|       |   |                 |                          |       |         |
|-------|---|-----------------|--------------------------|-------|---------|
| Title |   |                 | RM46 HDK                 |       |         |
| Size  | B | Document Number | MCU DCAN, FRAY, LIN      |       |         |
| Rev   | D | Date:           | Tuesday, August 14, 2012 | Sheet | 6 of 29 |

To MCU  
18  
19  
TO PHY

When using RMII, the OSC will be 50MHz

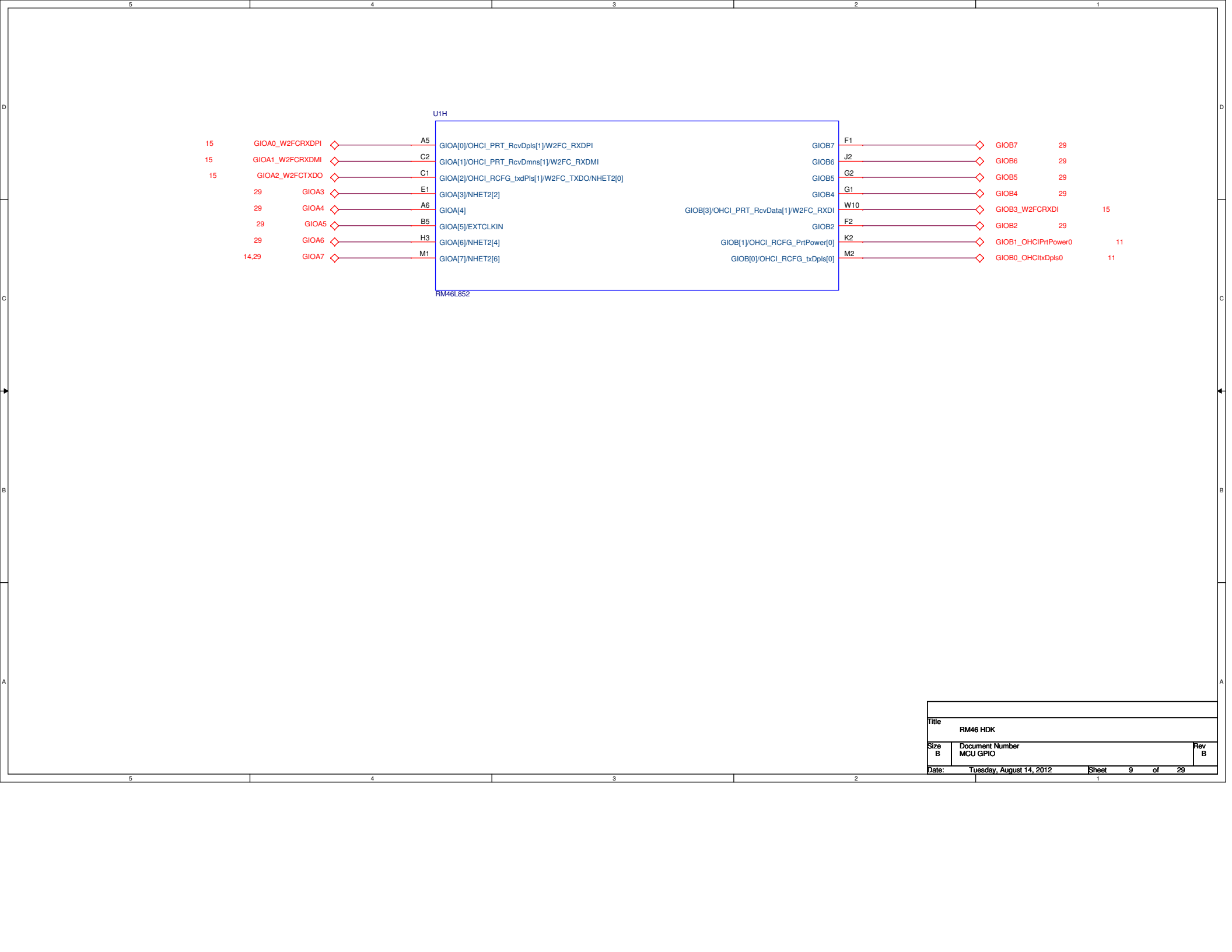
place R225, R226,  
R132, and C29 close to  
U1

|                                |                 |     |
|--------------------------------|-----------------|-----|
| Title                          |                 |     |
| RM46 HDK                       |                 |     |
| Size                           | Document Number | Rev |
| B                              | MCU JTAG & OSC  | D   |
| Date: Tuesday, August 14, 2012 |                 |     |
| Sheet 7 of 29                  |                 |     |

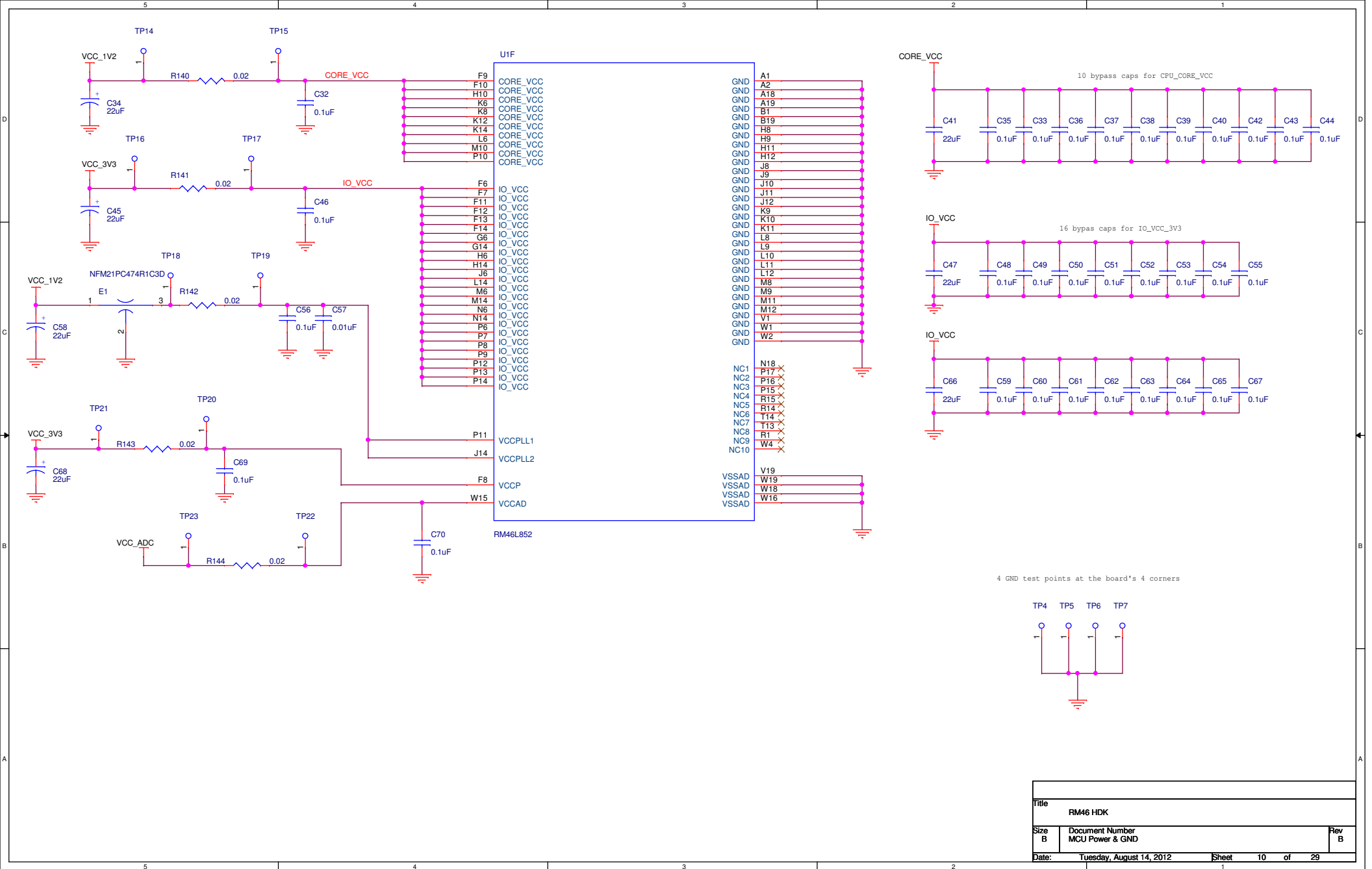


|          |                          |               |
|----------|--------------------------|---------------|
| Title    |                          |               |
| RM46 HDK |                          |               |
| Size B   | Document Number          | Rev B         |
| MCU NHET |                          |               |
| Date:    | Tuesday, August 14, 2012 | Sheet 8 of 29 |



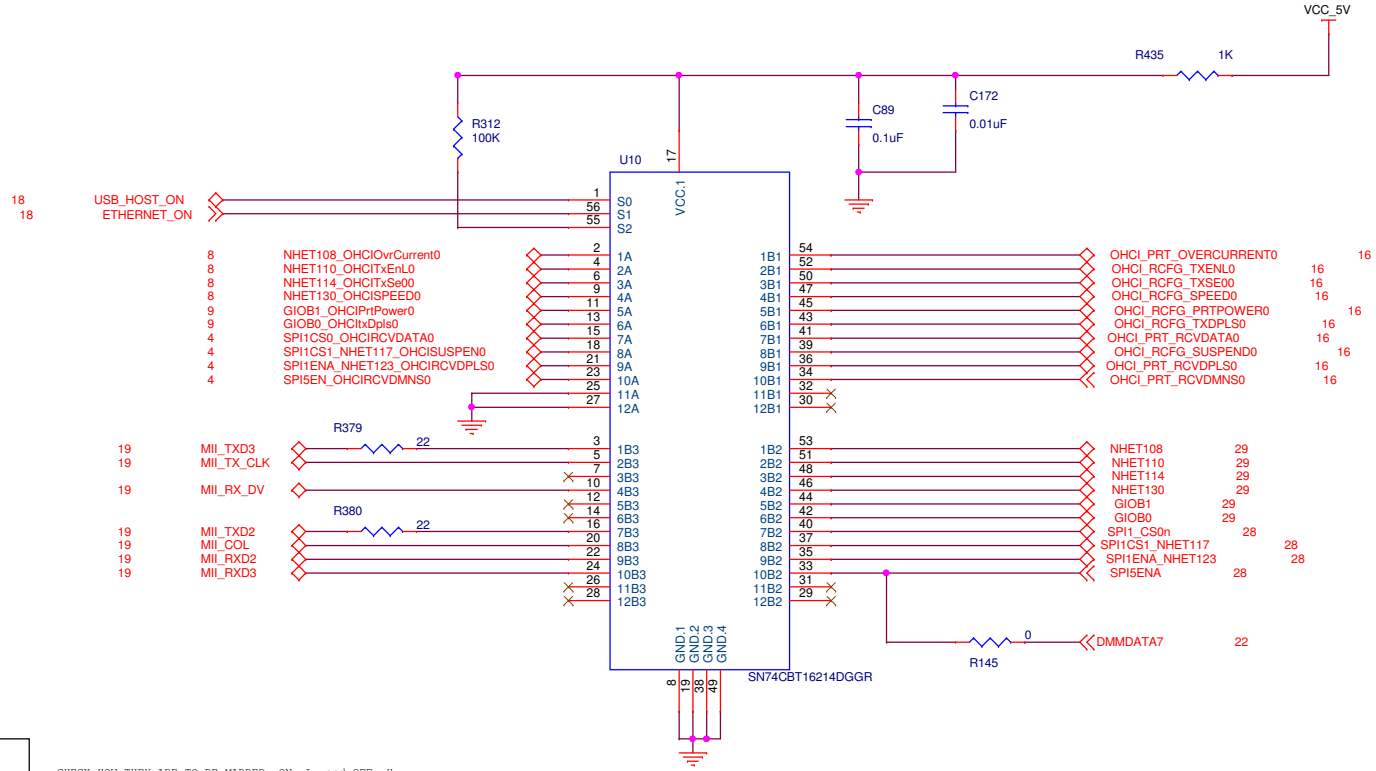


|          |                             |               |
|----------|-----------------------------|---------------|
| Title    |                             |               |
| RM46 HDK |                             |               |
| Size B   | Document Number<br>MCU GPIO | Rev B         |
| Date:    | Tuesday, August 14, 2012    | Sheet 9 of 29 |

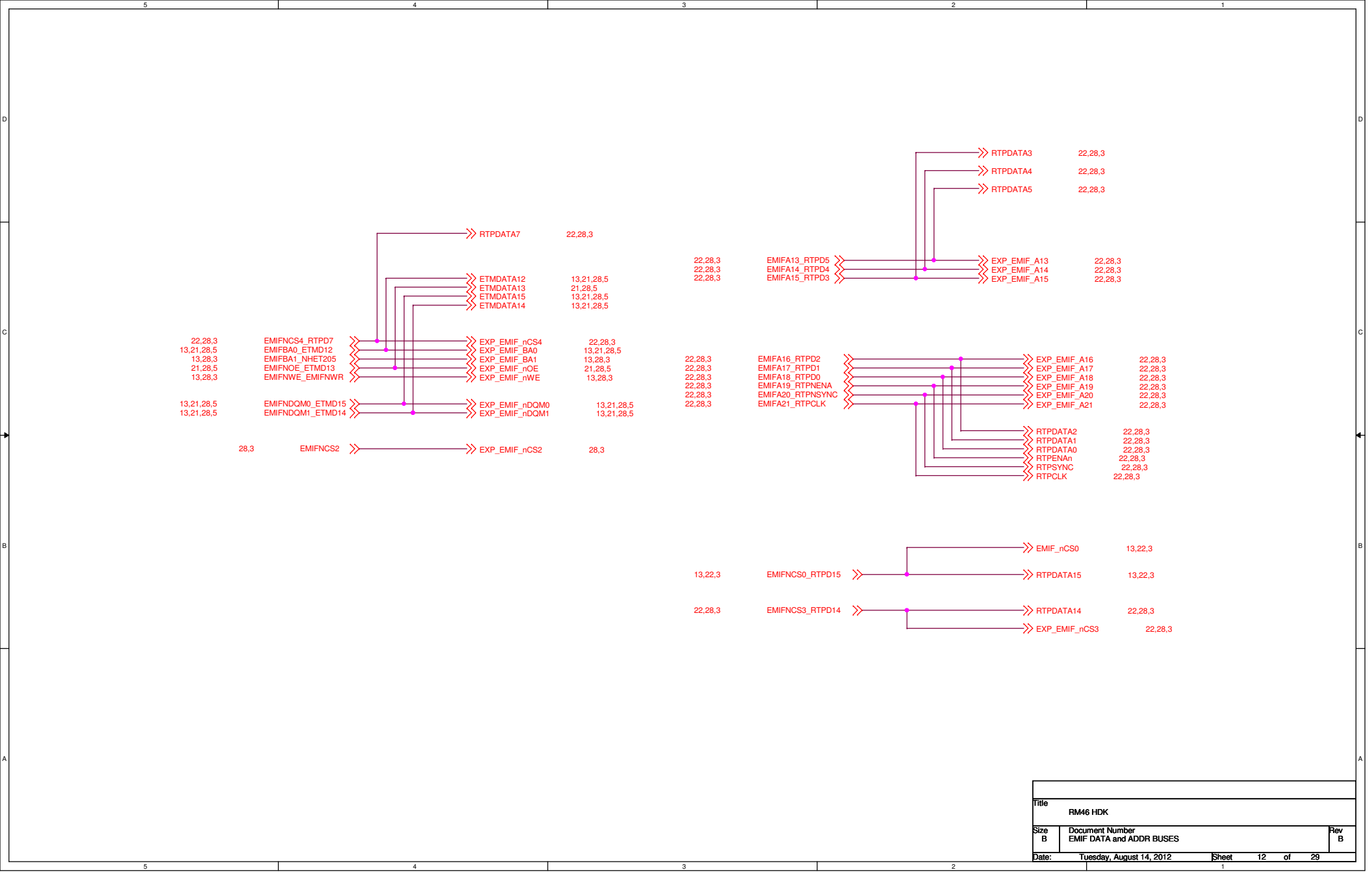


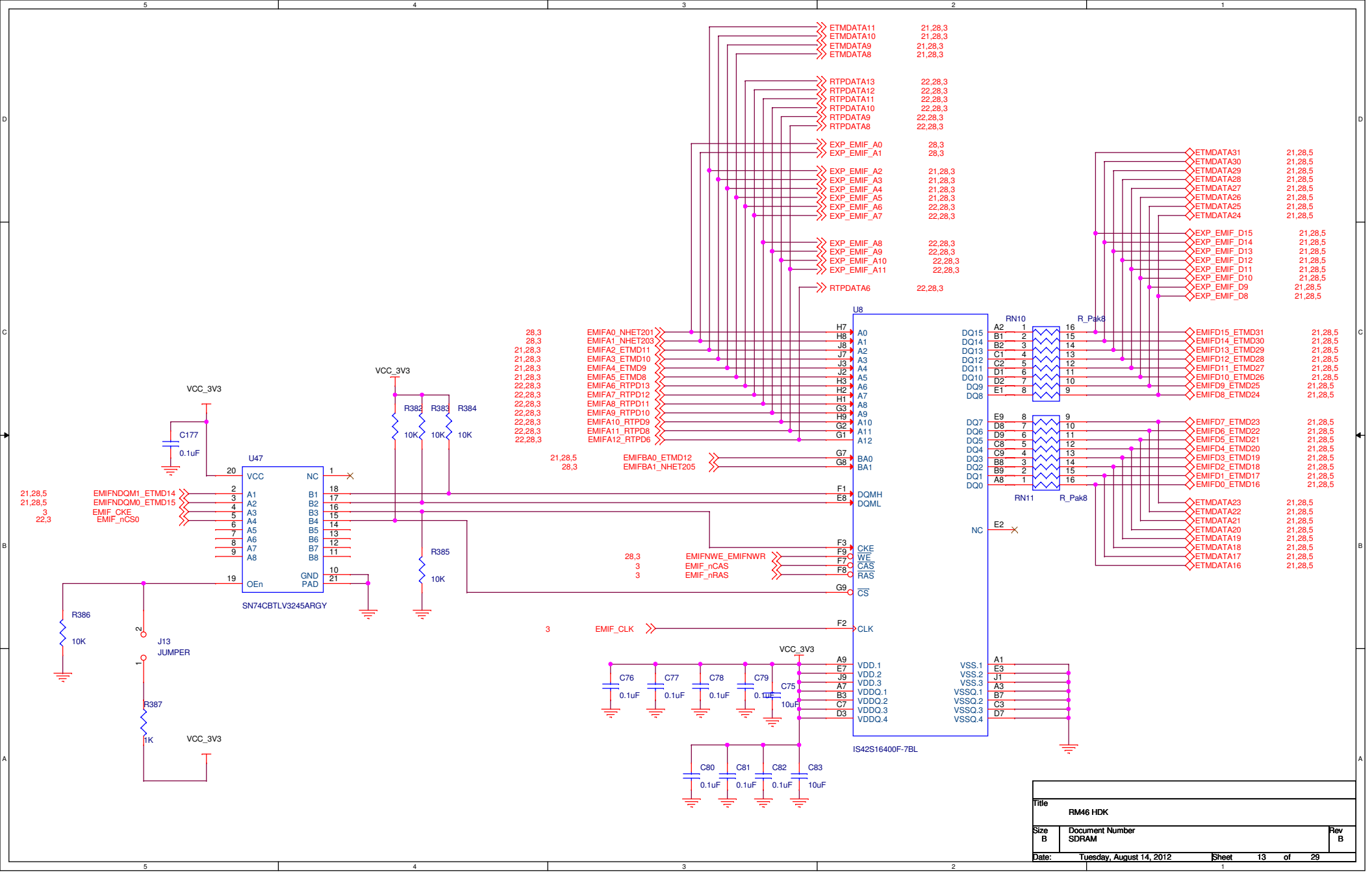
| S2 | S1 | S0 | A     |
|----|----|----|-------|
| 1  | 0  | 0  | Z     |
| 1  | 0  | 1  | B3**  |
| 1  | 1  | 0  | B1 ** |
| 1  | 1  | 1  | B2 ** |

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

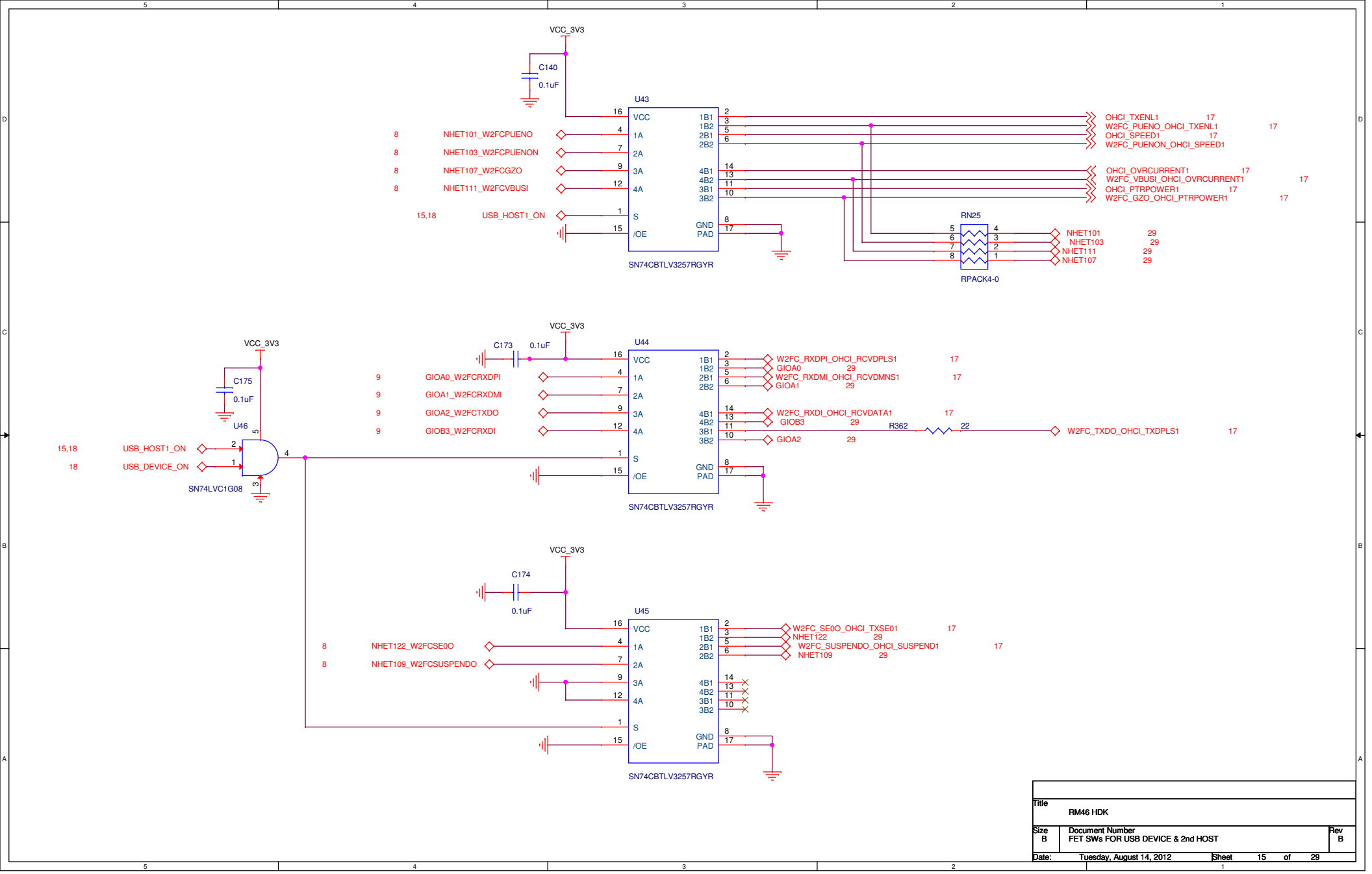


|       |                          |       |          |
|-------|--------------------------|-------|----------|
| Title |                          |       | RM46 HDK |
| Size  | Document Number          | Rev   |          |
| B     | FET SWs FOR 1st USB HOST | B     |          |
| Date: | Tuesday, August 14, 2012 | Sheet | 11 of 29 |





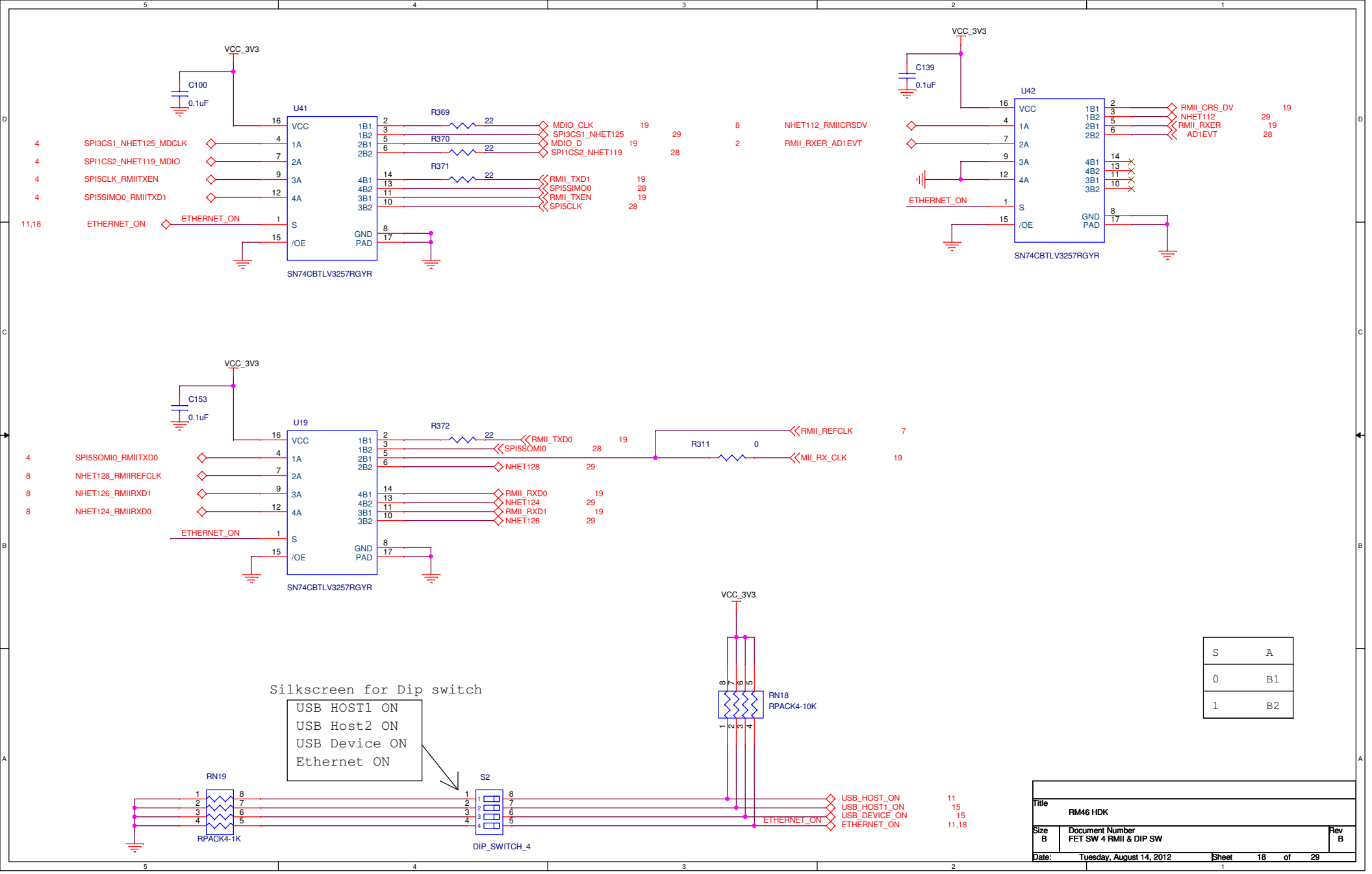




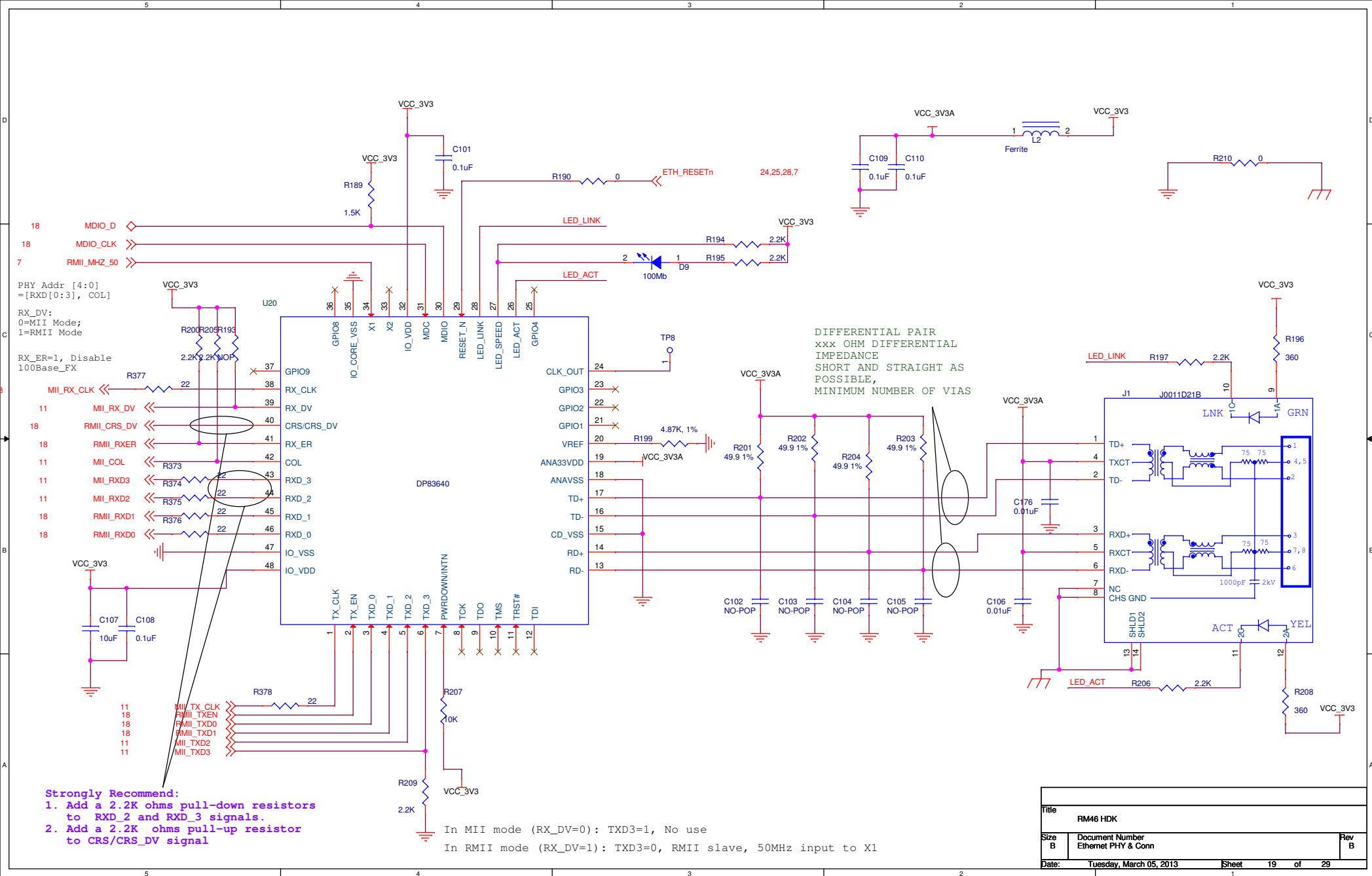


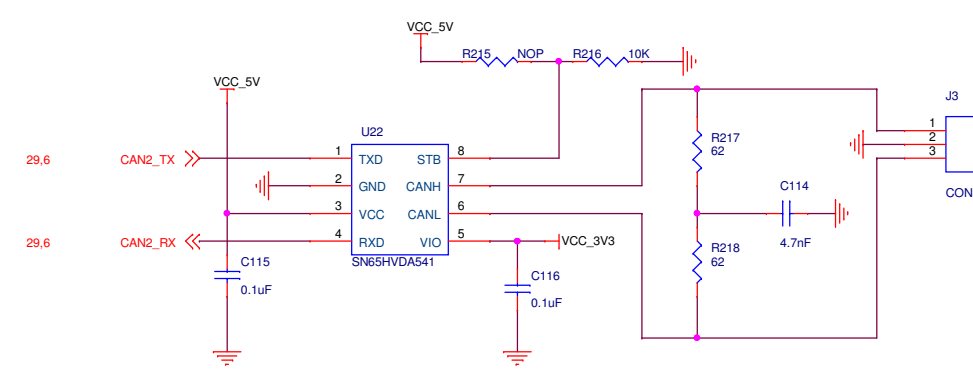
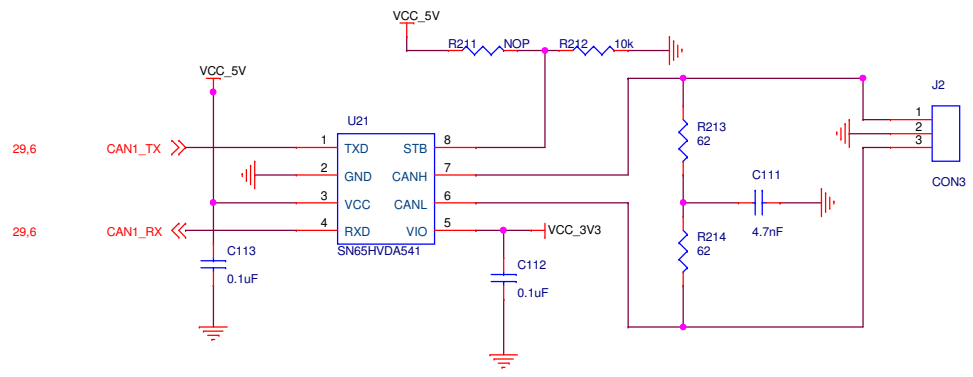




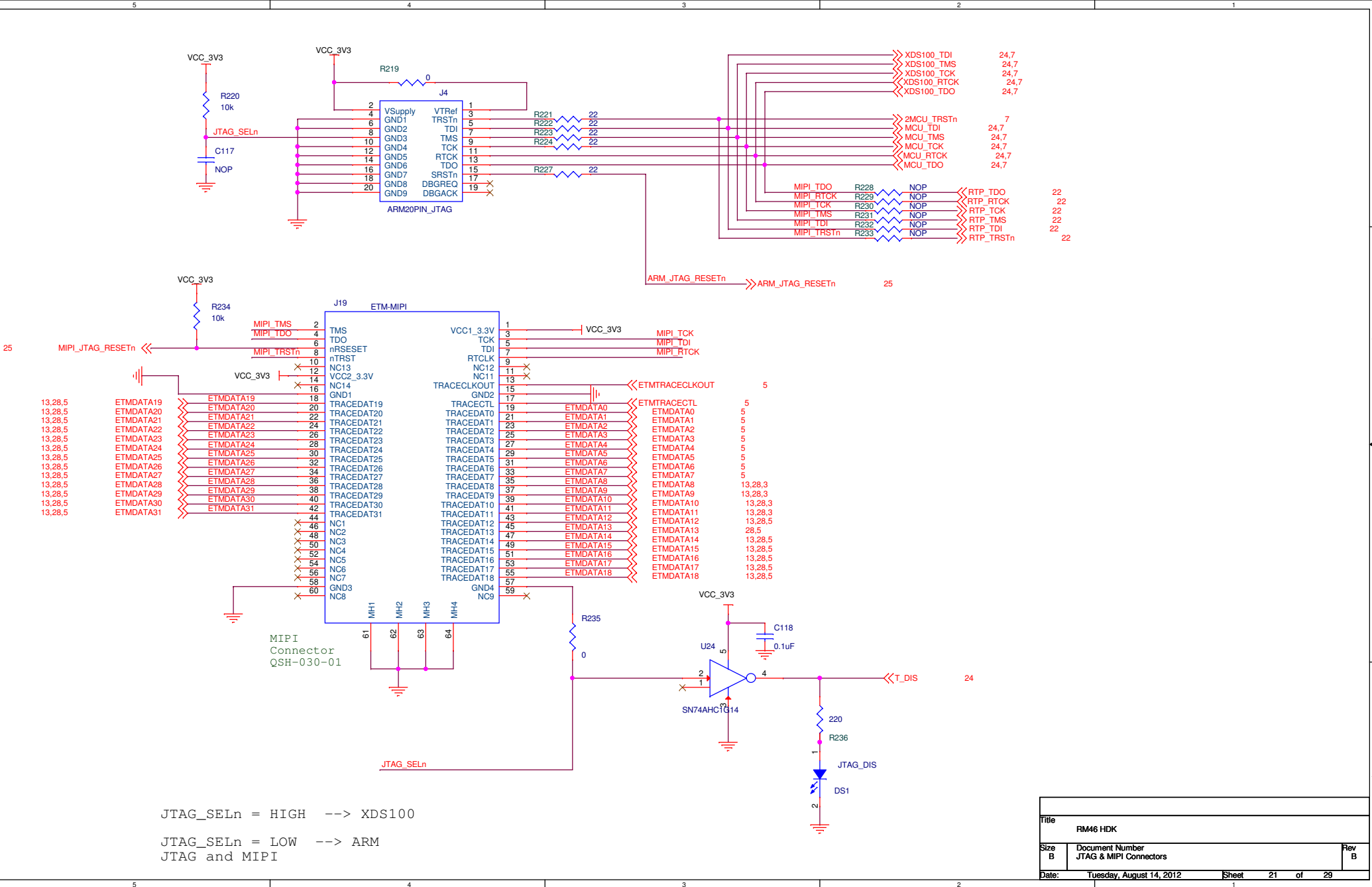


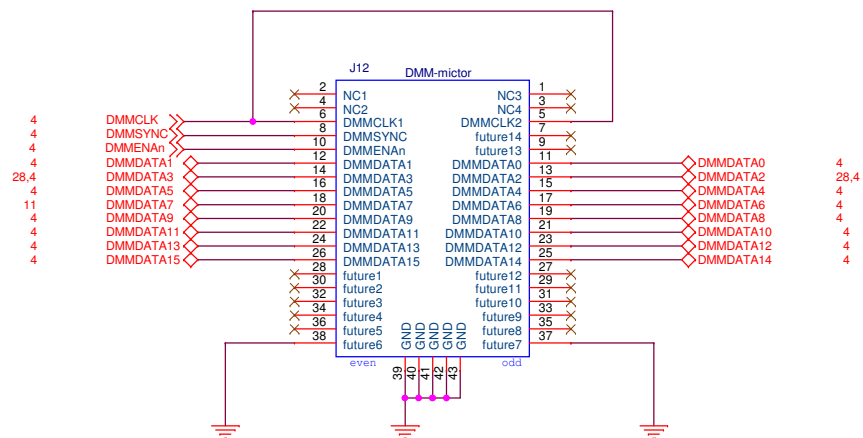
|                        |                          |                |
|------------------------|--------------------------|----------------|
| Title                  |                          |                |
| RM46 HDK               |                          |                |
| Size B                 | Document Number          | Rev B          |
| FET SW 4 RMII & DIP SW |                          |                |
| Date:                  | Tuesday, August 14, 2012 | Sheet 18 of 29 |





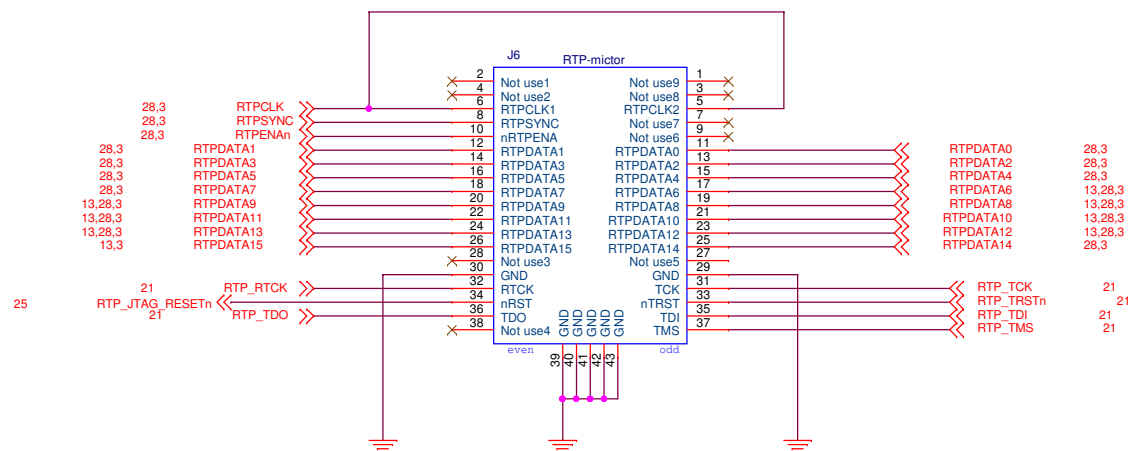
|          |                          |                |
|----------|--------------------------|----------------|
| Title    |                          |                |
| RM46 HDK |                          |                |
| Size     | Document Number          | Rev            |
| B        | DCAN Transceivers        | B              |
| Date:    | Tuesday, August 14, 2012 | Sheet 20 of 29 |





Foot Print Only

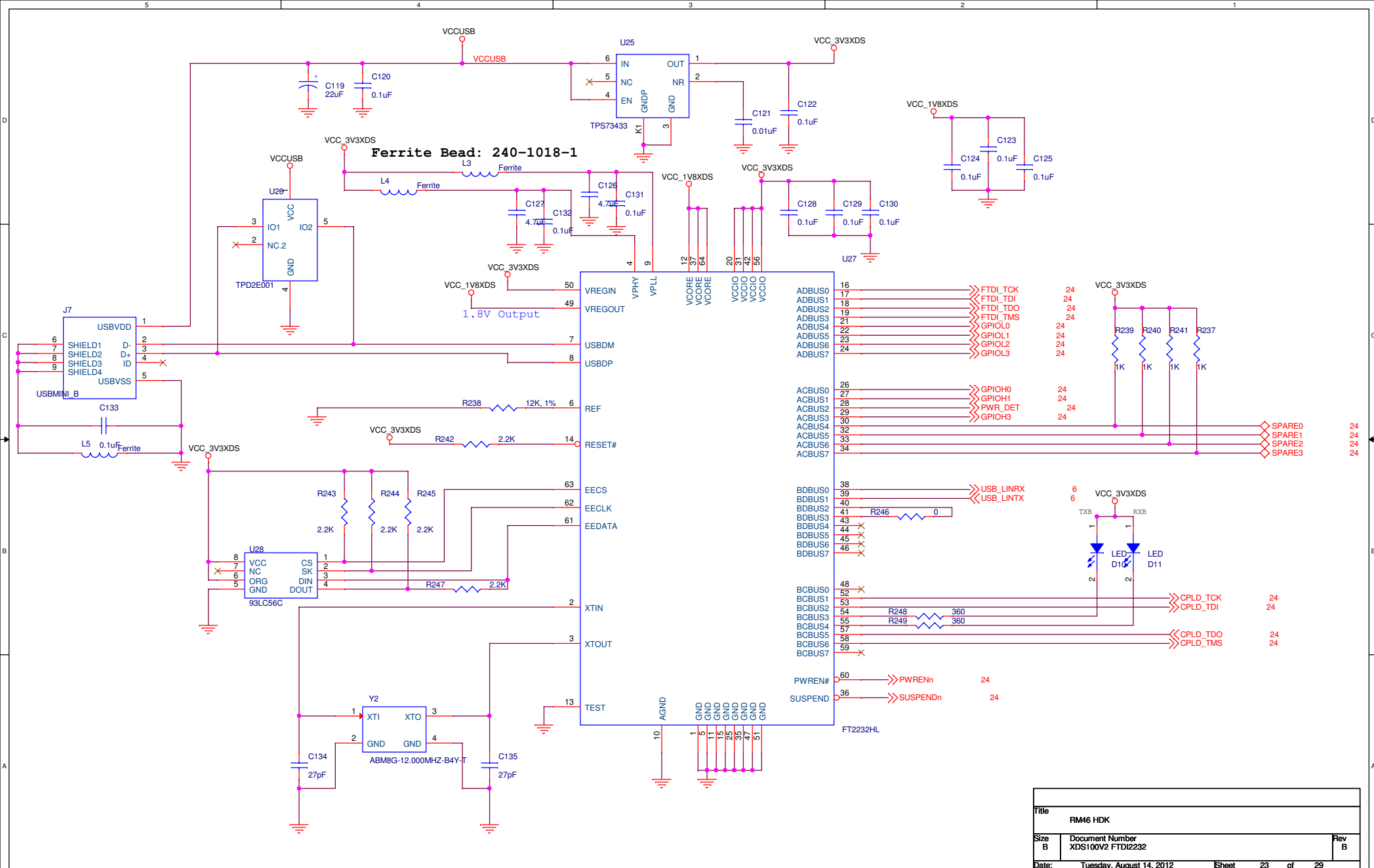
Pin39/40/41/42/43 are the central GND



AMP 2-5767004-2  
Receptacle, Center Strip Contacts

Foot Print Only

|          |                                           |                |       |
|----------|-------------------------------------------|----------------|-------|
|          |                                           |                |       |
| Title    |                                           |                |       |
| RM46 HDK |                                           |                |       |
| Size B   | Document Number<br>DMM and RTP Connectors |                | Rev B |
| Date:    | Tuesday, August 14, 2012                  | Sheet 22 of 29 |       |







If VCC\_3.3V below 3.0V --> RESET

This is the  
RESET pin rather  
than TRST

21 ARM\_JTAG\_RESETn  
21 MIPI\_JTAG\_RESETn  
22 RTP\_JTAG\_RESETn

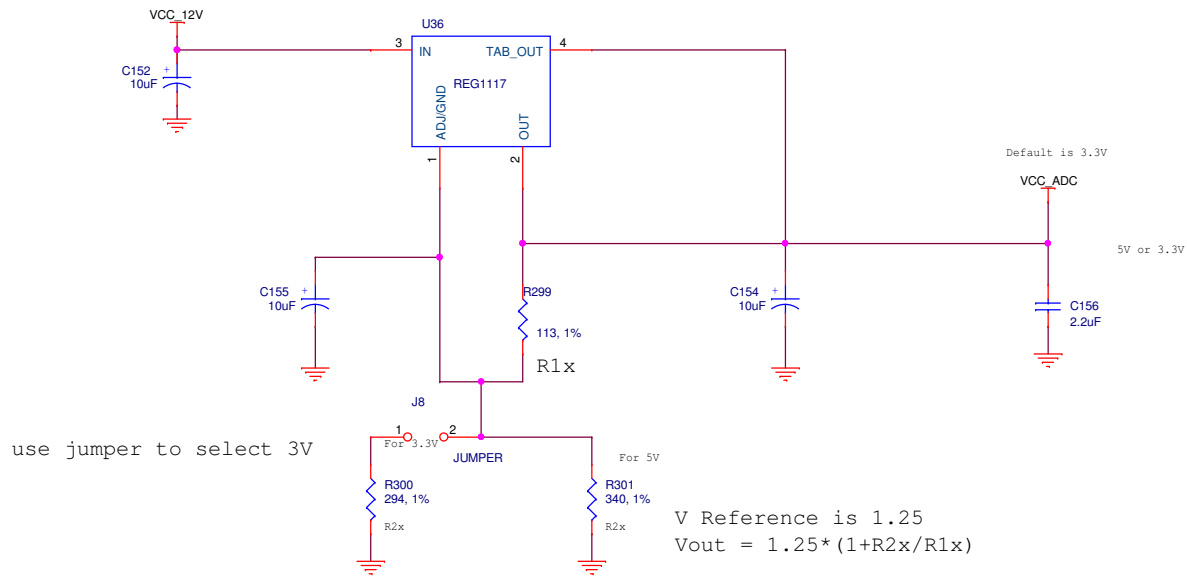
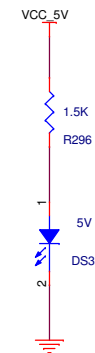
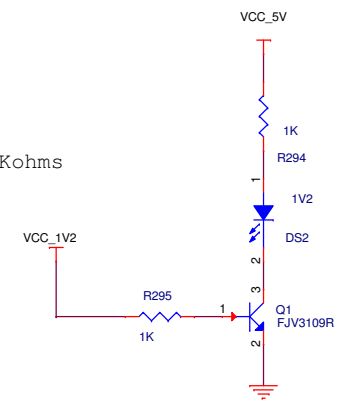
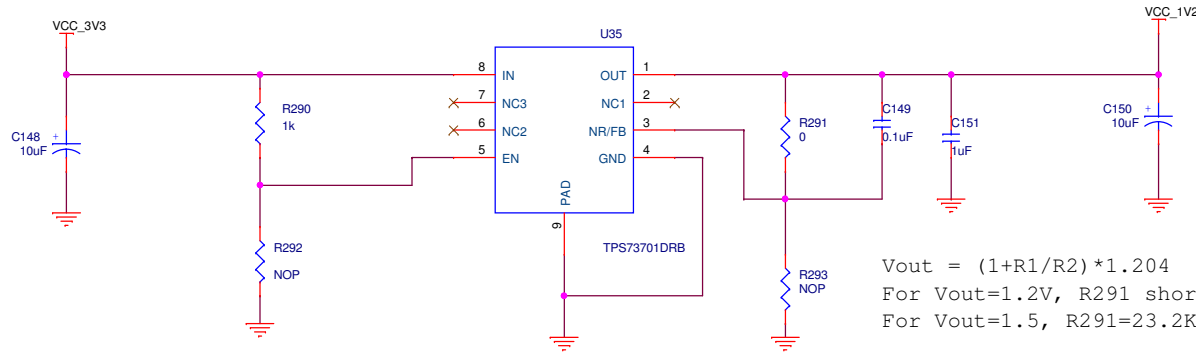
19,24,28,7 XDS\_JTAG\_RESETn

If VCC\_3.3V below 3.0V --> RESET

If VCC\_1.5V below 1.35V --> RESET

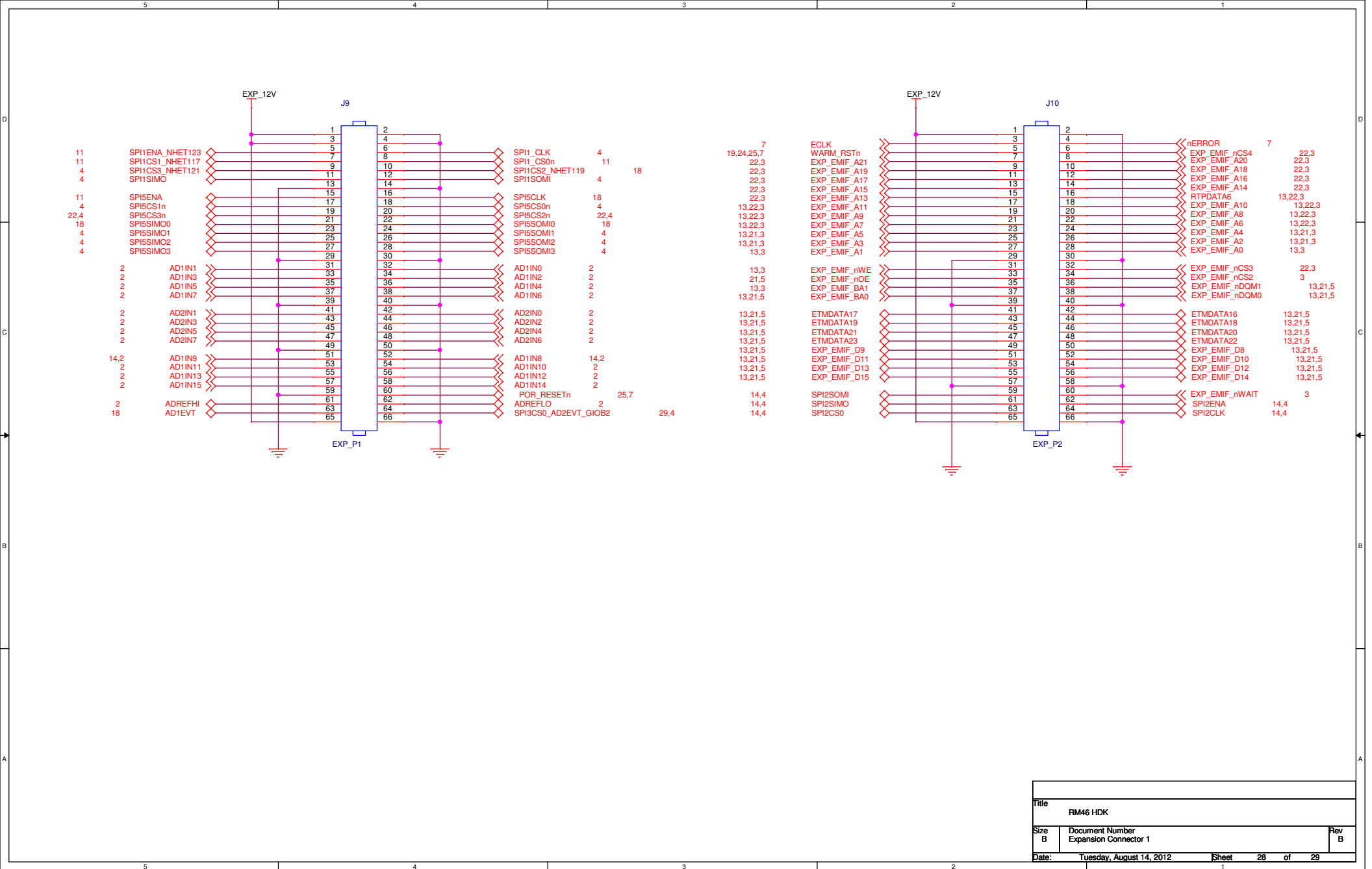
SENSE THRESHOLD FOR  
TPS3808G09 IS 0.840 VOLTS

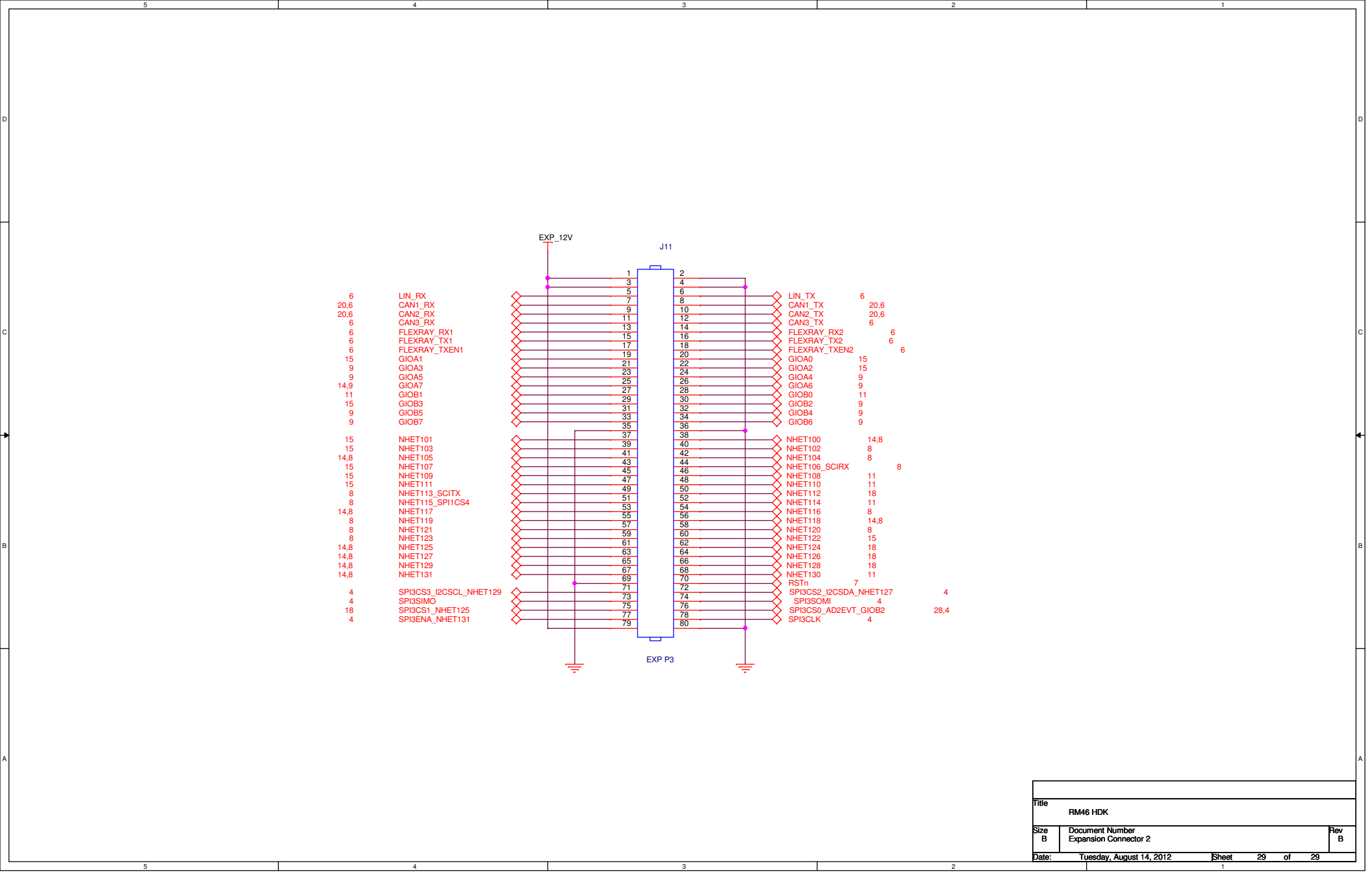
|           |                          |                |
|-----------|--------------------------|----------------|
| Title     |                          |                |
| RM46 HDK  |                          |                |
| Size<br>B | Document Number<br>RESET | Rev<br>B       |
| Date:     | Tuesday, August 14, 2012 | Sheet 25 of 29 |



|          |                          |                |
|----------|--------------------------|----------------|
| Title    |                          |                |
| RM46 HDK |                          |                |
| Size     | Document Number          | Rev            |
| B        | Power Supply             | C              |
| Date:    | Tuesday, August 14, 2012 | Sheet 26 of 29 |







|          |                          |                |
|----------|--------------------------|----------------|
| Title    |                          |                |
| RM46 HDK |                          |                |
| Size     | Document Number          | Rev            |
| B        | Expansion Connector 2    | B              |
| Date:    | Tuesday, August 14, 2012 | Sheet 29 of 29 |