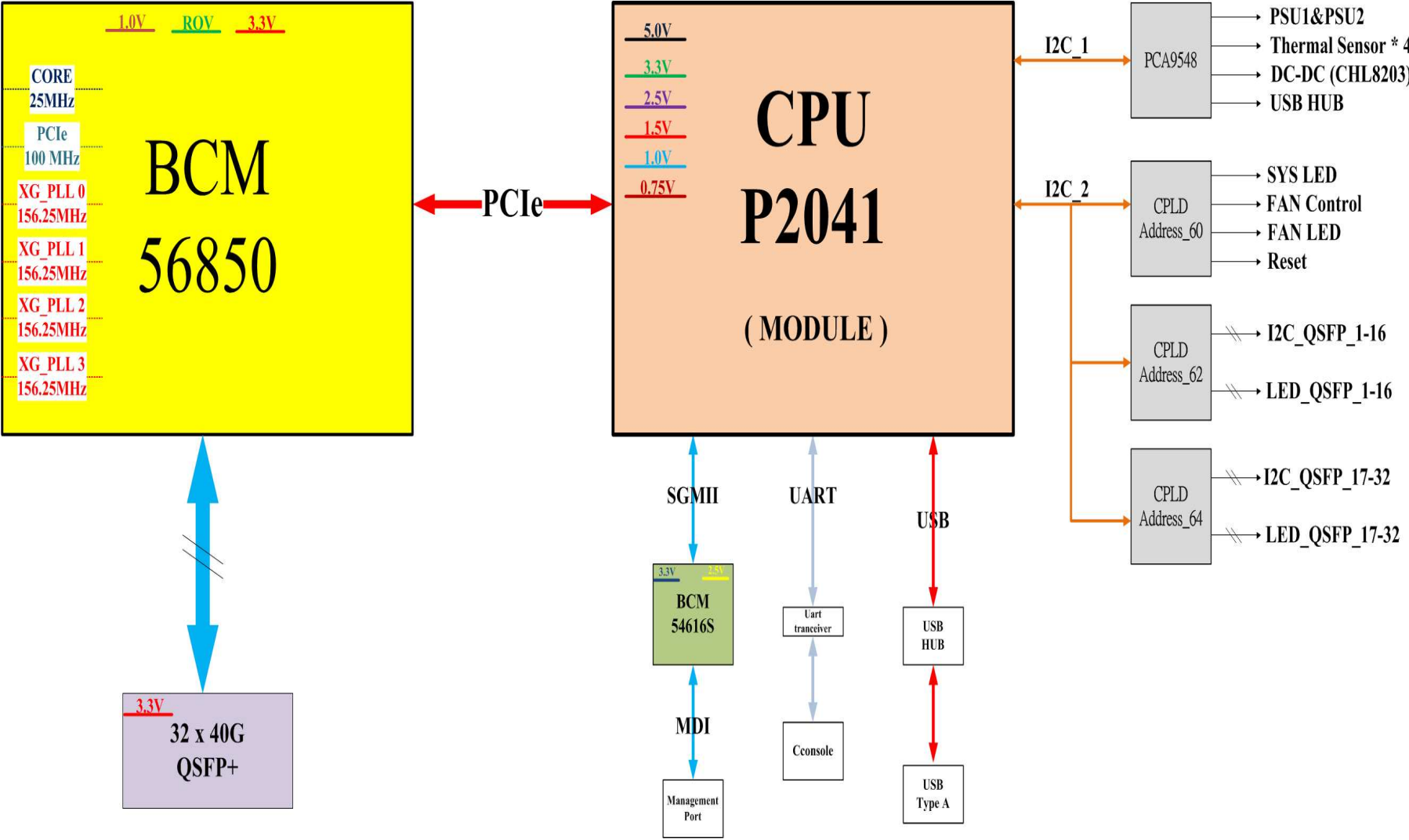




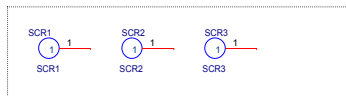
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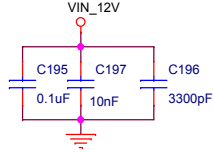
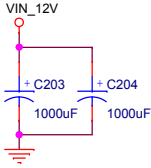
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|            |   |                          |               |          |
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| Model Name |   | ES6632BT2-1014-JN        | Rev           | R01      |
| Size       | C | Page Name                | Block Diagram | Engineer |
| Date       |   | Thursday, April 30, 2015 | Sheet         | 1 of 34  |

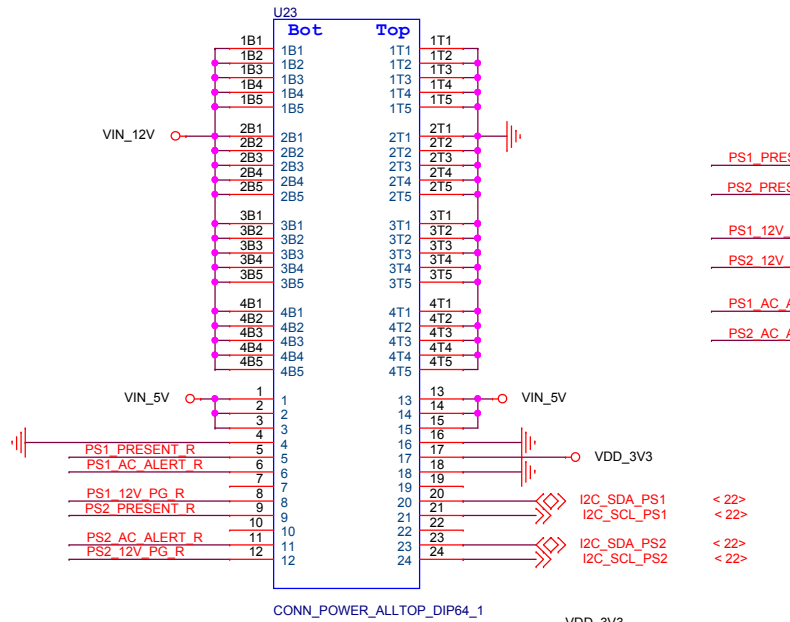
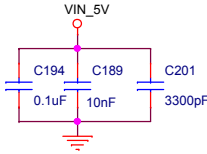
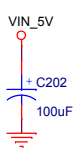


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| Model Name |                          | ES6632BT2-1014-JN   |         | Rev       | R01 |
| Size       | Page Name                | CPU CONN / FAN CONN |         | Engineer  |     |
| C          |                          |                     |         | Eason_Liu |     |
| Date:      | Thursday, April 30, 2015 | Sheet               | 2 of 34 |           |     |

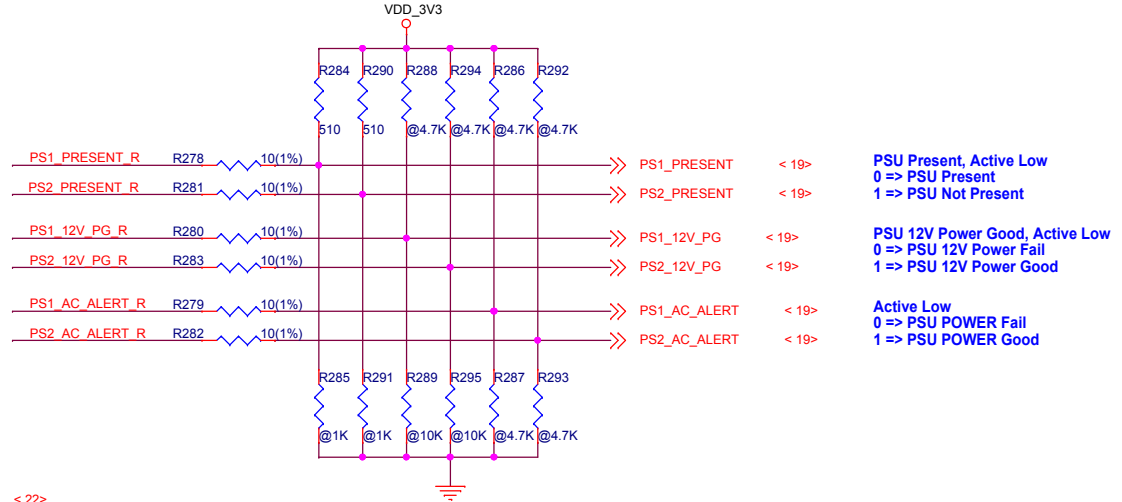
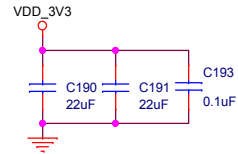
1000uF / SANYO  
204300000024A  
16V, ESR=0.012ohm  
Permissible Ripple : 5.4A



100uF / NICHICON  
204300000023A  
16V, ESR=0.024ohm  
Permissible Ripple : 2.49A



CONN\_POWER\_ALLTOP\_DIP64\_1



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|-------------------|--------------------------|-----------|---------|
| Model Name        |                          | Rev       |         |
| ES6632BT2-1014-JN |                          | R01       |         |
| Size              | Page Name                | Engineer  |         |
| B                 | POWER CONN               | Eason_Liu |         |
| Date:             | Thursday, April 30, 2015 | Sheet     | 3 of 34 |



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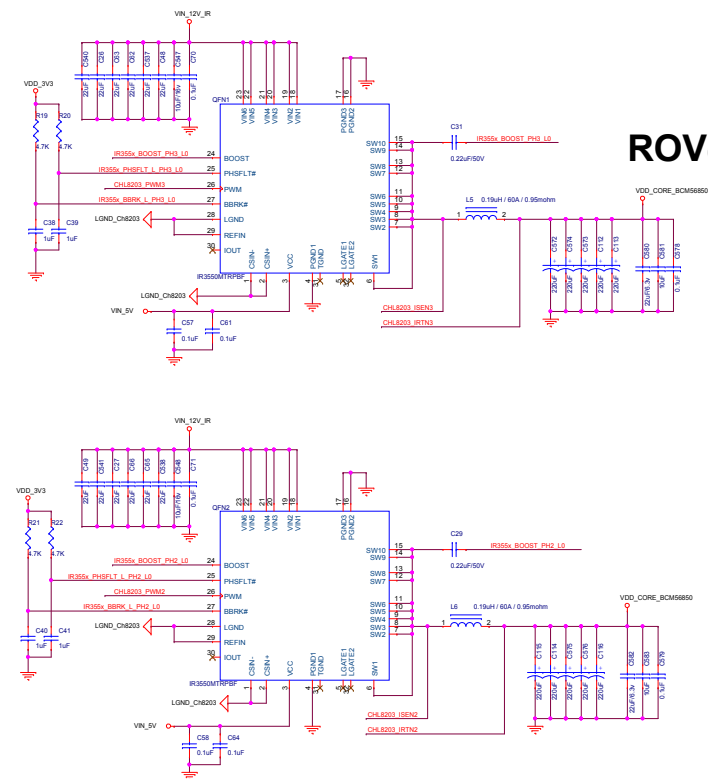
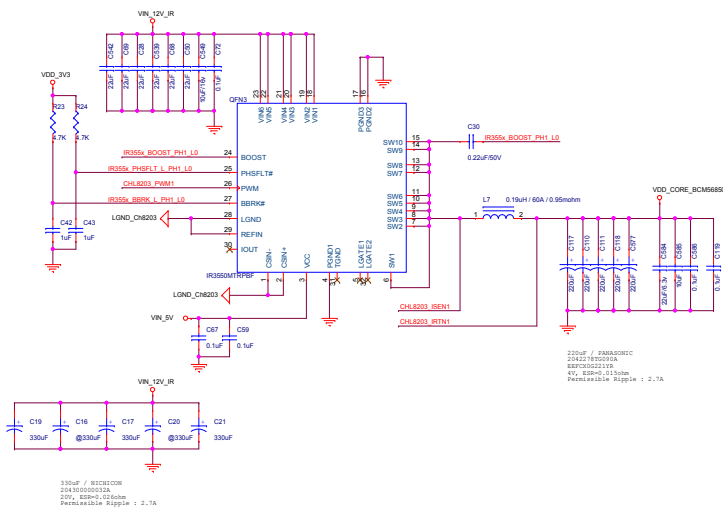
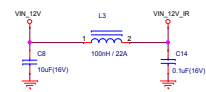
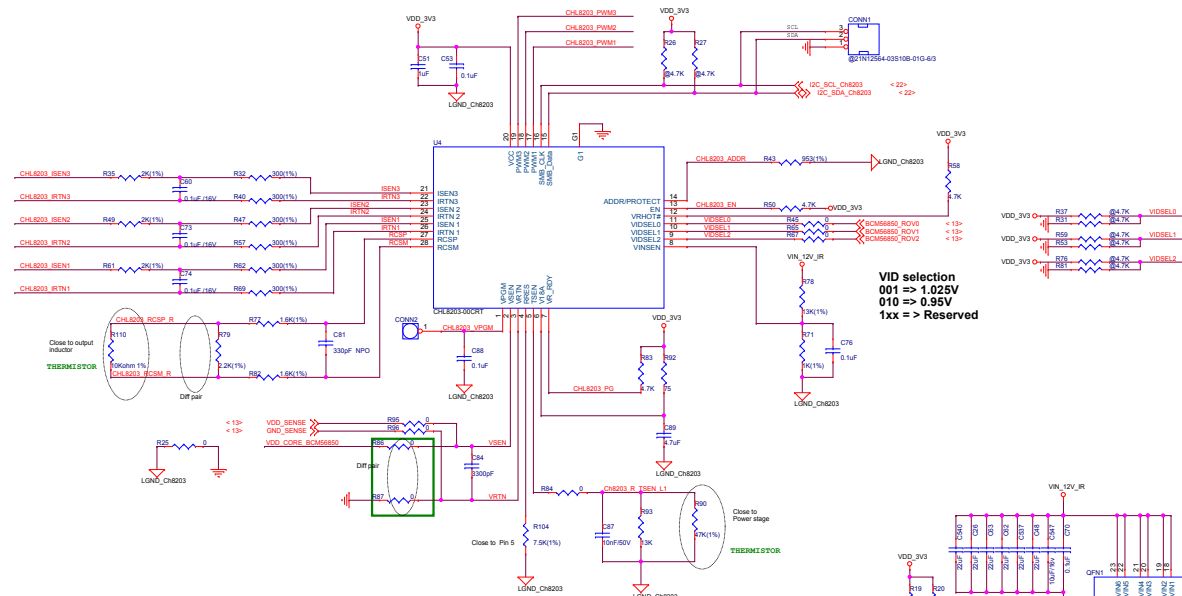
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| Size       | Page Name                |                   |  | Engineer  |         |     |  |
| C          | VDD_3V3                  |                   |  | Eason_Liu |         |     |  |
| Date:      | Thursday, April 30, 2015 |                   |  | Sheet     | 4 of 34 |     |  |

| RESISTOR ( $R_{\text{sp}}$ ) CONNECTIONS |            | SWITCHING FREQUENCY       |
|------------------------------------------|------------|---------------------------|
| VALUE ( $k\Omega$ )                      | CONNECT TO | ( $f_{\text{sw}}$ ) (kHz) |
| 0                                        | GND        | 250                       |
| 187                                      | GND        | 300                       |
| 619                                      | GND        | 400                       |
| OPEN                                     | n/a        | 500                       |
| 866                                      | VREG       | 650                       |
| 309                                      | VREG       | 750                       |
| 124                                      | VREG       | 850                       |
| 0                                        | VREG       | 970                       |

| MODE SELECTION            | ACTION           | SOFT-START TIME (ms) | R <sub>MODE</sub> (kΩ) |
|---------------------------|------------------|----------------------|------------------------|
| Auto Skip                 | Pull down to GND | 0.7                  | 39                     |
|                           |                  | 1.4                  | 100                    |
|                           |                  | 2.8                  | 200                    |
|                           |                  | 5.6                  | 475                    |
| Forced CCM <sup>(1)</sup> | Connect to PGOOD | 0.7                  | 39                     |
|                           |                  | 1.4                  | 100                    |
|                           |                  | 2.8                  | 200                    |
|                           |                  | 5.6                  | 475                    |



|            |                          |                   |           |         |     |
|------------|--------------------------|-------------------|-----------|---------|-----|
| Model Name |                          | ES6632BT2-1014~JN |           | Rev     | R01 |
| Size       | Page Name                |                   | Engineer  |         |     |
| B          | VDD_1V0                  |                   | Eason_Liu |         |     |
| Date:      | Thursday, April 30, 2015 |                   | Sheet     | 5 of 34 |     |



ROV@118A

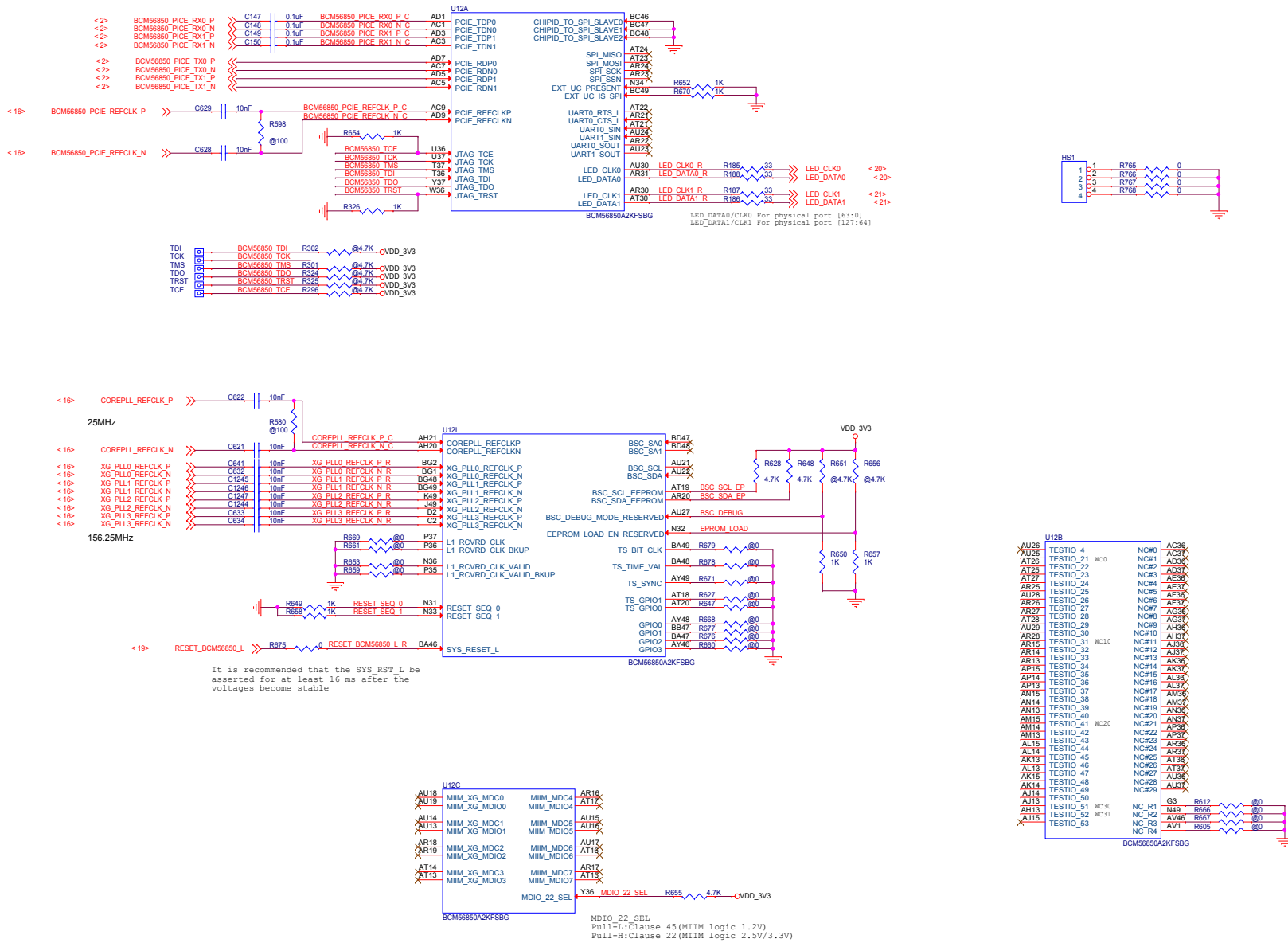
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|------------|--------------------------|----------|-----------|
| Model Name | ES6632BT2-1014-JN        | Rev      | R01       |
| Page Name  | ROV                      | Engineer | Eason_Liu |
| Date       | Thursday, April 30, 2015 | Print    | 4 of 35   |

# BCM56850\_Interface\_01



It is recommended that the SYS\_RST\_L be asserted for at least 16 ms after the voltages become stable

MDIO\_22\_SEL  
Pull=L: Clause 45 (MIIM logic 1.2V)  
Pull=H: Clause 22 (MIIM logic 2.5V/3.3V)

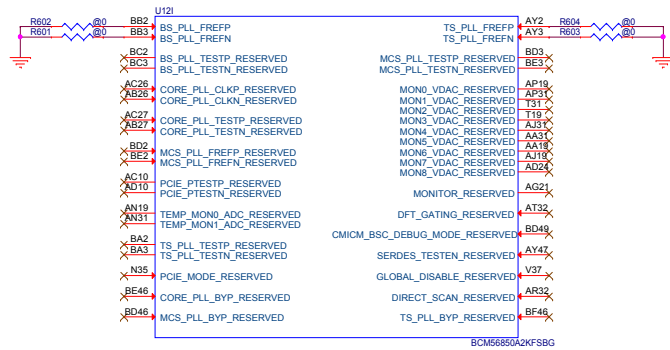
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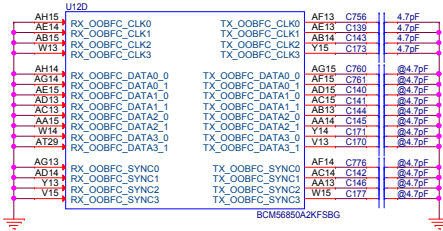
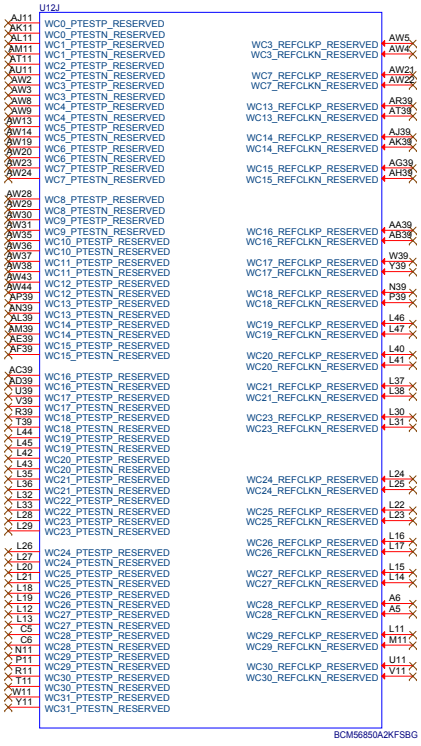
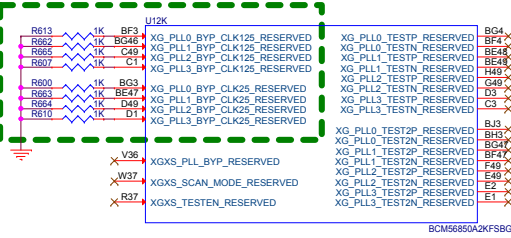
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|------------|--------------------------|--|-------------------|--|---|-----|----|-----|----|--|
| Model Name |                          |  | ES6632BT2-1014-JN |  |   | Rev |    | R01 |    |  |
| Size       | Page Name                |  | Engineer          |  |   |     |    |     |    |  |
| C          | BCM56850_Interface_01    |  | Eason_Liu         |  |   |     |    |     |    |  |
| Date:      | Thursday, April 30, 2015 |  | Sheet             |  | 7 |     | of |     | 34 |  |

# BCM56850\_Interface\_02



Must be pulled to ground through a resistor.  
For factory use only.



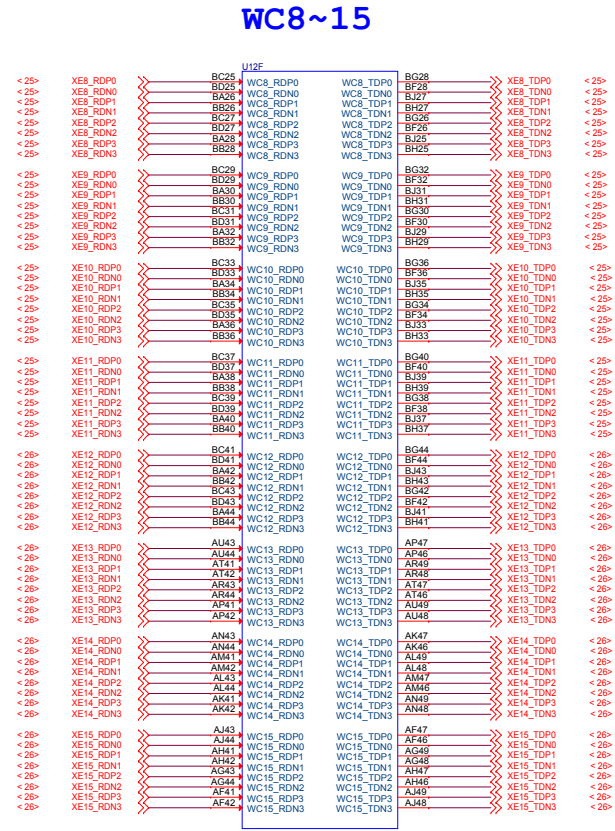
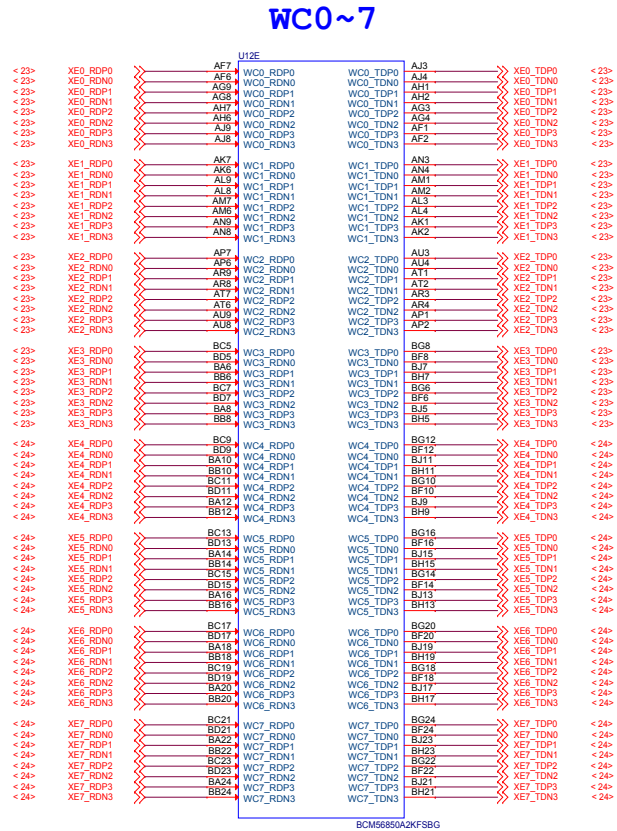
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| Size       | Page Name                | Engineer          |     |       |
| C          | BCM56850_Interface_02    | Eason_Liu         |     |       |
| Date:      | Thursday, April 30, 2015 | Sheet             | 8   | of 34 |

## BCM56850\_Warpcore (0-15)



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|------------|--------------------------|-------------------|--|-----------|---------|-----|--|
| Model Name |                          | ES6632BT2-1014-JN |  | Rev       |         | R01 |  |
| Size       | Page Name                |                   |  | Engineer  |         |     |  |
| C          | BCM56850_Warpcore (0-15) |                   |  | Eason_Liu |         |     |  |
| Date:      | Thursday, April 30, 2015 |                   |  | Sheet     | 9 of 34 |     |  |

# BCM56850\_Warpcore (16-31)

## WC16~23

|       |           |      |           |
|-------|-----------|------|-----------|
| U12G  |           |      |           |
| < 27> | XE16_RDP0 | AE43 | WC16_RDP0 |
| < 27> | XE16_RDN0 | AE44 | WC16_RDN0 |
| < 27> | XE16_RDP1 | AD41 | WC16_RDP1 |
| < 27> | XE16_RDN1 | AD42 | WC16_RDN1 |
| < 27> | XE16_RDP2 | AC43 | WC16_RDP2 |
| < 27> | XE16_RDN2 | AC44 | WC16_RDN2 |
| < 27> | XE16_RDP3 | AB41 | WC16_RDP3 |
| < 27> | XE16_RDN3 | AB42 | WC16_RDN3 |
| < 27> | XE17_RDP0 | AA43 | WC17_RDP0 |
| < 27> | XE17_RDN0 | AA44 | WC17_RDN0 |
| < 27> | XE17_RDP1 | Y41  | WC17_RDP1 |
| < 27> | XE17_RDN1 | Y42  | WC17_RDN1 |
| < 27> | XE17_RDP2 | W43  | WC17_RDP2 |
| < 27> | XE17_RDN2 | W44  | WC17_RDN2 |
| < 27> | XE17_RDP3 | V41  | WC17_RDP3 |
| < 27> | XE17_RDN3 | V42  | WC17_RDN3 |
| < 27> | XE18_RDP0 | U43  | WC18_RDP0 |
| < 27> | XE18_RDN0 | U44  | WC18_RDN0 |
| < 27> | XE18_RDP1 | T42  | WC18_RDP1 |
| < 27> | XE18_RDN1 | T43  | WC18_RDN1 |
| < 27> | XE18_RDP2 | R44  | WC18_RDP2 |
| < 27> | XE18_RDN2 | R45  | WC18_RDN2 |
| < 27> | XE18_RDP3 | P41  | WC18_RDP3 |
| < 27> | XE18_RDN3 | P42  | WC18_RDN3 |
| < 27> | XE19_RDP0 | J47  | WC19_RDP0 |
| < 27> | XE19_RDN0 | H47  | WC19_RDN0 |
| < 27> | XE19_RDP1 | G46  | WC19_RDP1 |
| < 27> | XE19_RDN1 | F46  | WC19_RDN1 |
| < 27> | XE19_RDP2 | J45  | WC19_RDP2 |
| < 27> | XE19_RDN2 | H45  | WC19_RDN2 |
| < 27> | XE19_RDP3 | G44  | WC19_RDP3 |
| < 27> | XE19_RDN3 | F44  | WC19_RDN3 |
| < 28> | XE20_RDP0 | J43  | WC20_RDP0 |
| < 28> | XE20_RDN0 | H43  | WC20_RDN0 |
| < 28> | XE20_RDP1 | G42  | WC20_RDP1 |
| < 28> | XE20_RDN1 | F42  | WC20_RDN1 |
| < 28> | XE20_RDP2 | J41  | WC20_RDP2 |
| < 28> | XE20_RDN2 | H41  | WC20_RDN2 |
| < 28> | XE20_RDP3 | G40  | WC20_RDP3 |
| < 28> | XE20_RDN3 | F40  | WC20_RDN3 |
| < 28> | XE21_RDP0 | J39  | WC21_RDP0 |
| < 28> | XE21_RDN0 | H39  | WC21_RDN0 |
| < 28> | XE21_RDP1 | G38  | WC21_RDP1 |
| < 28> | XE21_RDN1 | F38  | WC21_RDN1 |
| < 28> | XE21_RDP2 | J37  | WC21_RDP2 |
| < 28> | XE21_RDN2 | H37  | WC21_RDN2 |
| < 28> | XE21_RDP3 | G36  | WC21_RDP3 |
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| < 28> | XE22_RDP0 | J35  | WC22_RDP0 |
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| < 28> | XE22_RDP2 | J33  | WC22_RDP2 |
| < 28> | XE22_RDN2 | H33  | WC22_RDN2 |
| < 28> | XE22_RDP3 | G32  | WC22_RDP3 |
| < 28> | XE22_RDN3 | F32  | WC22_RDN3 |
| < 28> | XE23_RDP0 | J31  | WC23_RDP0 |
| < 28> | XE23_RDN0 | H31  | WC23_RDN0 |
| < 28> | XE23_RDP1 | G30  | WC23_RDP1 |
| < 28> | XE23_RDN1 | F30  | WC23_RDN1 |
| < 28> | XE23_RDP2 | J29  | WC23_RDP2 |
| < 28> | XE23_RDN2 | H29  | WC23_RDN2 |
| < 28> | XE23_RDP3 | G28  | WC23_RDP3 |
| < 28> | XE23_RDN3 | F28  | WC23_RDN3 |

BCM56850AZKFSBG

## WC24~31

|       |           |     |           |
|-------|-----------|-----|-----------|
| U12H  |           |     |           |
| < 29> | XE24_RDP0 | J27 | WC24_RDP0 |
| < 29> | XE24_RDN0 | J27 | WC24_RDN0 |
| < 29> | XE24_RDP1 | G26 | WC24_RDP1 |
| < 29> | XE24_RDN1 | F26 | WC24_RDN1 |
| < 29> | XE24_RDP2 | J25 | WC24_RDP2 |
| < 29> | XE24_RDN2 | H25 | WC24_RDN2 |
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| < 29> | XE25_RDP0 | J23 | WC25_RDP0 |
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| < 29> | XE25_RDP1 | G22 | WC25_RDP1 |
| < 29> | XE25_RDN1 | F22 | WC25_RDN1 |
| < 29> | XE25_RDP2 | J21 | WC25_RDP2 |
| < 29> | XE25_RDN2 | H21 | WC25_RDN2 |
| < 29> | XE25_RDP3 | G20 | WC25_RDP3 |
| < 29> | XE25_RDN3 | F20 | WC25_RDN3 |
| < 29> | XE26_RDP0 | J19 | WC26_RDP0 |
| < 29> | XE26_RDN0 | J19 | WC26_RDN0 |
| < 29> | XE26_RDP1 | G18 | WC26_RDP1 |
| < 29> | XE26_RDN1 | F18 | WC26_RDN1 |
| < 29> | XE26_RDP2 | J17 | WC26_RDP2 |
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| < 30> | XE28_RDN1 | F10 | WC28_RDN1 |
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| < 30> | XE28_RDP3 | G8  | WC28_RDP3 |
| < 30> | XE28_RDN3 | F8  | WC28_RDN3 |
| < 30> | XE29_RDP0 | K7  | WC29_RDP0 |
| < 30> | XE29_RDN0 | K7  | WC29_RDN0 |
| < 30> | XE29_RDP1 | L6  | WC29_RDP1 |
| < 30> | XE29_RDN1 | M6  | WC29_RDN1 |
| < 30> | XE29_RDP2 | M7  | WC29_RDP2 |
| < 30> | XE29_RDN2 | N6  | WC29_RDN2 |
| < 30> | XE29_RDP3 | N8  | WC29_RDP3 |
| < 30> | XE29_RDN3 | N8  | WC29_RDN3 |
| < 30> | XE30_RDP0 | P7  | WC30_RDP0 |
| < 30> | XE30_RDN0 | P7  | WC30_RDN0 |
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| < 30> | XE30_RDN1 | R6  | WC30_RDN1 |
| < 30> | XE30_RDP2 | T7  | WC30_RDP2 |
| < 30> | XE30_RDN2 | U6  | WC30_RDN2 |
| < 30> | XE30_RDP3 | U8  | WC30_RDP3 |
| < 30> | XE30_RDN3 | U8  | WC30_RDN3 |
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| < 30> | XE31_RDN0 | V6  | WC31_RDN0 |
| < 30> | XE31_RDP1 | W6  | WC31_RDP1 |
| < 30> | XE31_RDN1 | W6  | WC31_RDN1 |
| < 30> | XE31_RDP2 | Y6  | WC31_RDP2 |
| < 30> | XE31_RDN2 | Y6  | WC31_RDN2 |
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| < 30> | XE31_RDN3 | AA6 | WC31_RDN3 |

BCM56850AZKFSBG

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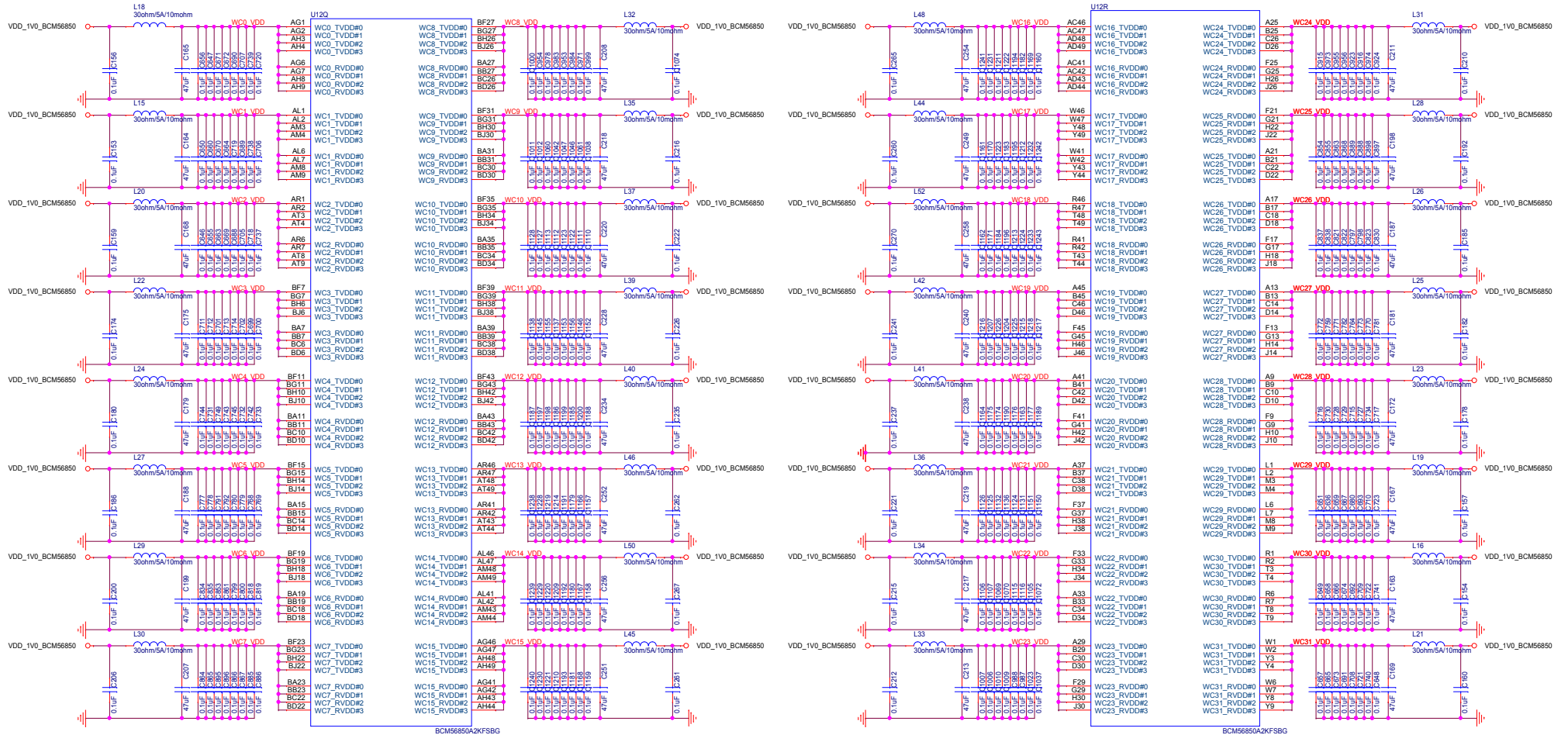
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| Model Name |           | ES6632BT2-1014-JN         | Rev      | R01       |
| Size       | Page Name | BCM56850_Warpcore (16-31) | Engineer | Eason_Liu |
| C          | Date:     | Thursday, April 30, 2015  | Sheet    | 10 of 34  |

# BCM56850\_WC POWER

WC[31:0]\_TVDD=1.0V +/-3%  
WC[31:0]\_RVDD=1.0V +/-3%  
WC[31:0]\_PVDD=1.0V +/-3%

For WC TVDD & WC RVDD  
Target:  $DCR < 58\text{mohm}$  (30mV/512mA)  
Design :  $DCR = 10\text{mohm}$

```
1021000000005A
BCMS160808A300RDC01 (MAX ECHO)
Impedance      : 30ohm@100MHz
DCR             : 0.01ohm
Rated Current   : 5A
```



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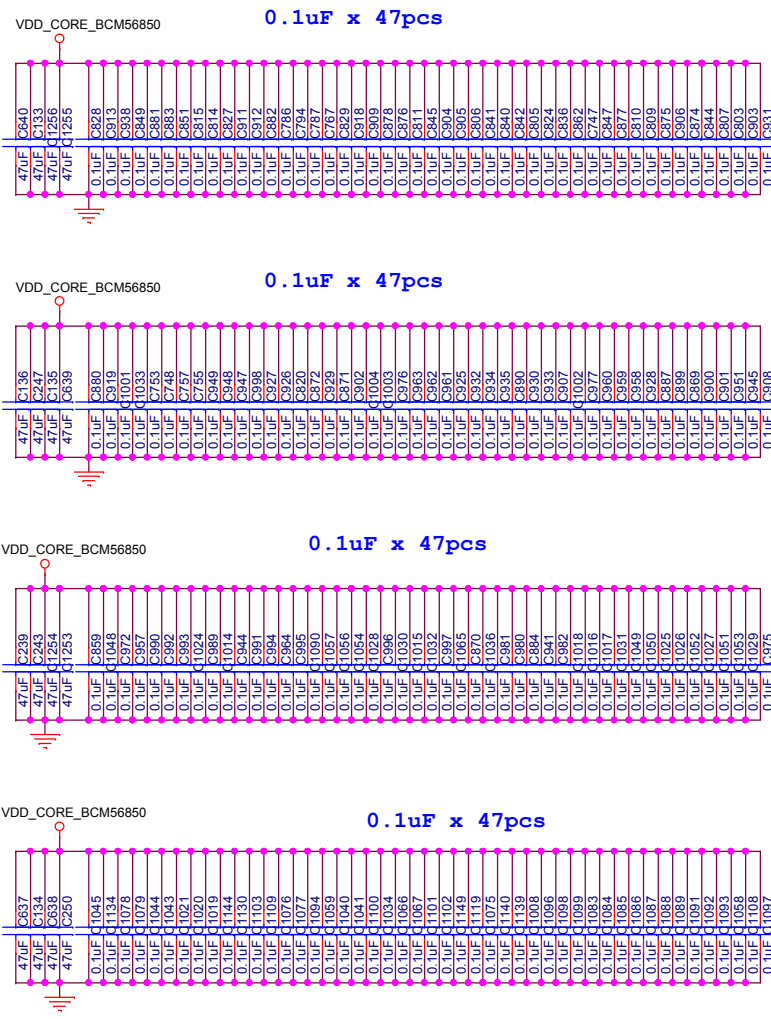
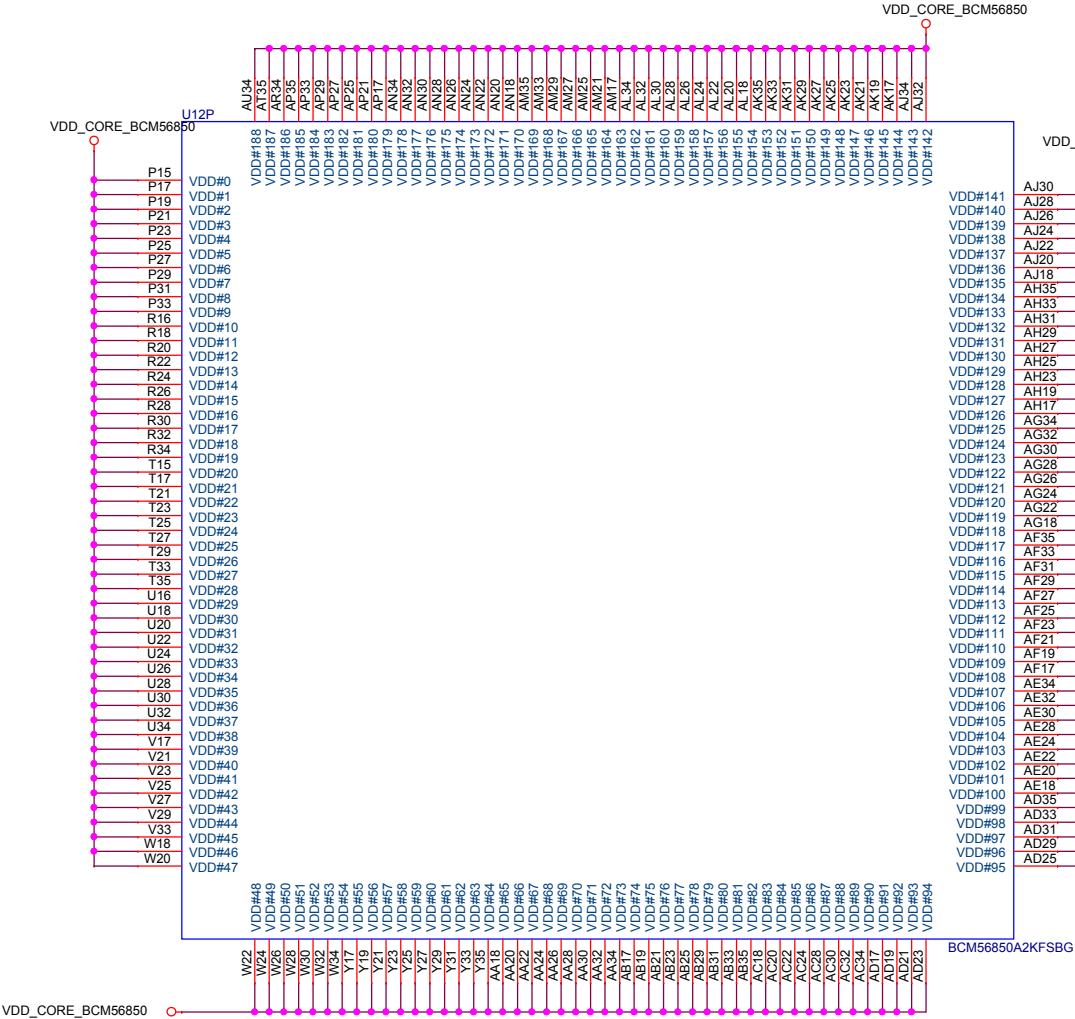


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|            |                          |                   |    |     |     |
|------------|--------------------------|-------------------|----|-----|-----|
| Model Name |                          | ES6632BT2-1014-JN |    | Rev | R01 |
| Size       | Page Name                | Engineer          |    |     |     |
| C          | BCM56850_WC POWER        | Eason_Liu         |    |     |     |
| Date:      | Thursday, April 30, 2015 | Sheet             | 11 | of  | 34  |

BCM56850\_POWER\_01



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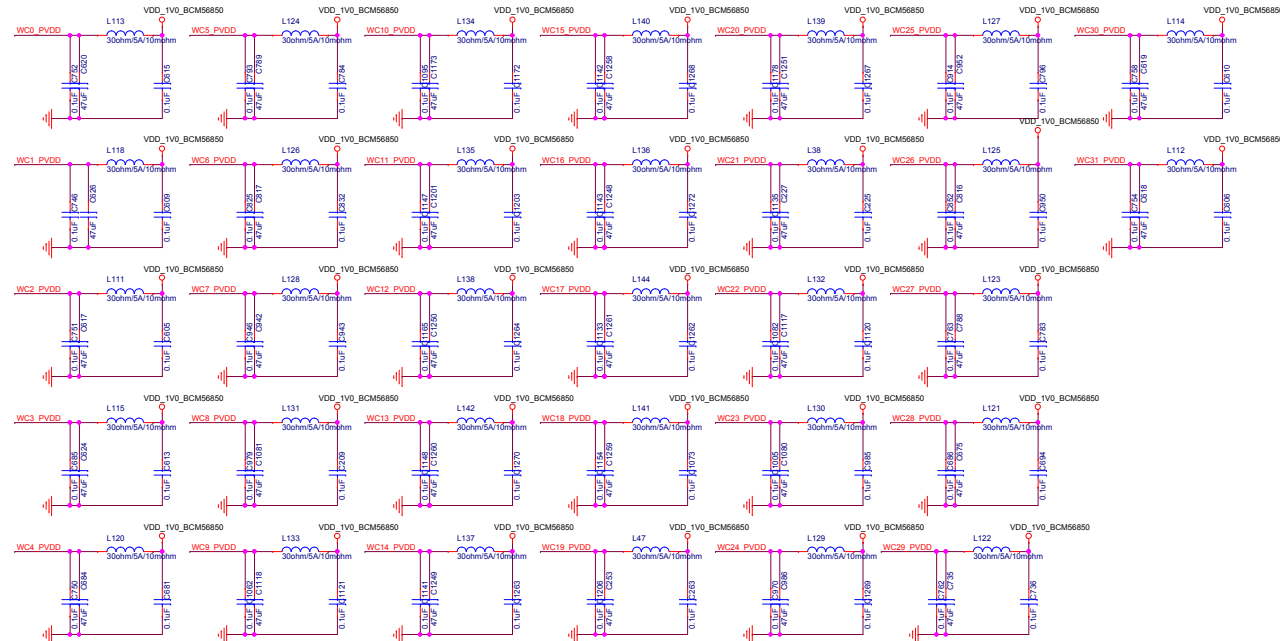
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|            |                          |                   | R01      |
| Size       | Page Name                | Engineer          |          |
| B          | BCM56850_POWER_01        | Eason_Liu         |          |
| Date:      | Thursday, April 30, 2015 | Sheet             | 12 of 34 |

# BCM56850\_POWER\_02

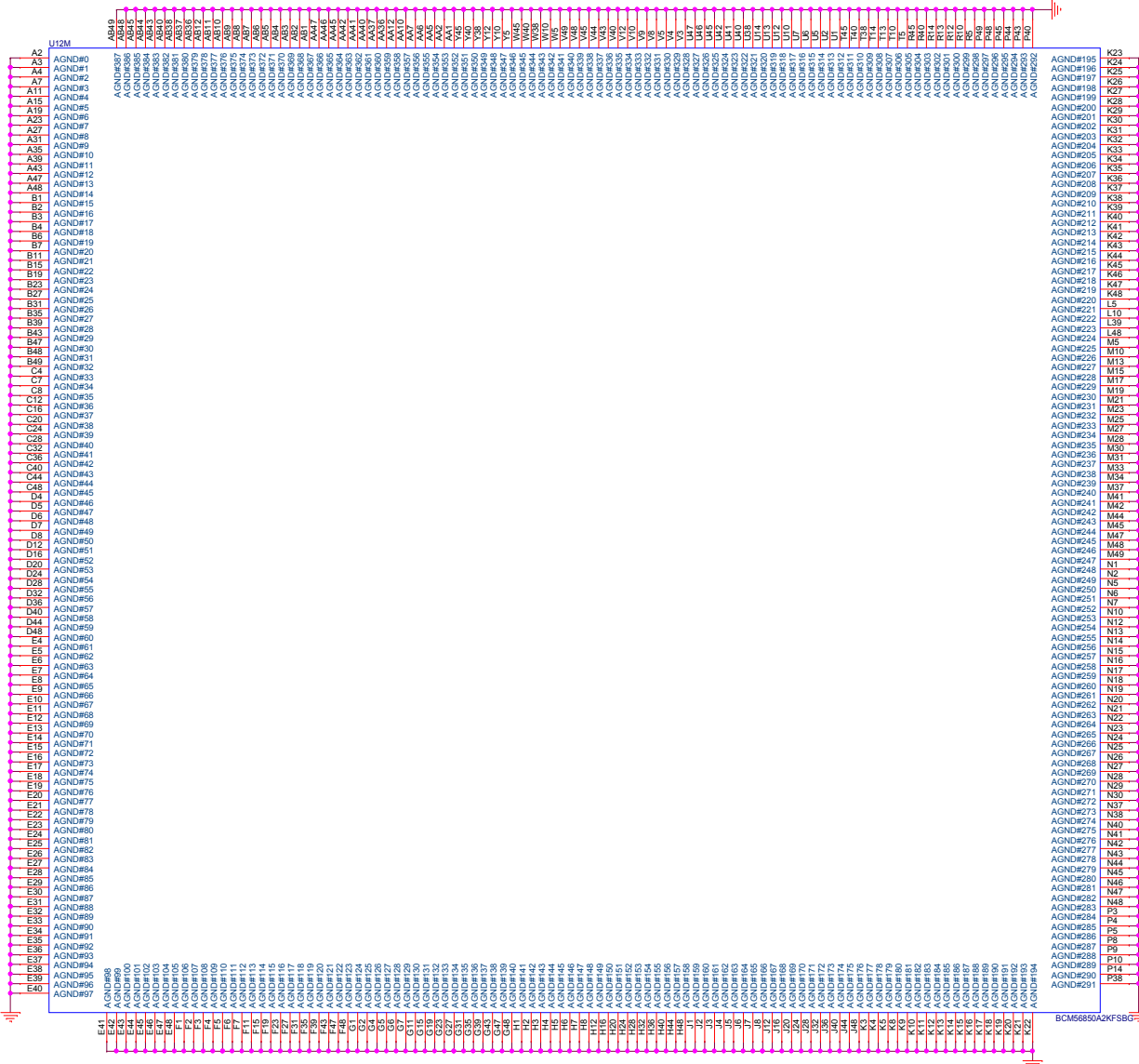
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WC[31:0] RVDD=1.0V +/-3%  
WC[31:0] PVDD=1.0V +/-3%  
  
For WC TVDD & WC RVDD  
Target : DCR < 46mohm (30mV/64mA)  
Design : DCR = 10mohm

102100000005A  
BCM56850-300R0C01 (MAX BC80)  
Impedance : 30ohm@100MHz  
DCR : 0.10ohm  
Rated Current : 5A

MHC16086011B (12PQ)  
Impedance : 60ohm@100MHz  
DCR : 0.20ohm  
Rated Current : 1.0A



BCM56850\_GND\_01



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|                                 |                              |                       |
|---------------------------------|------------------------------|-----------------------|
| Model Name<br>ES6632BT2-1014-JN |                              | Rev<br>R01            |
| Size<br>C                       | Page Name<br>BCM56850_GND_01 | Engineer<br>Eason_Liu |
| Date: Thursday, April 30, 2015  |                              | Sheet<br>14 of 34     |

# BCM56850\_GID\_02

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| AC40  | AGND#391 | P21  | GND#3   |
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| AE3   | AGND#417 | P47  | GND#29  |
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## A



## A



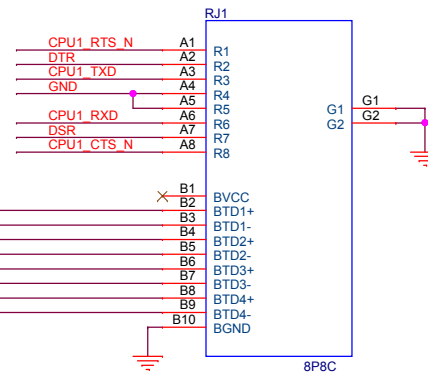
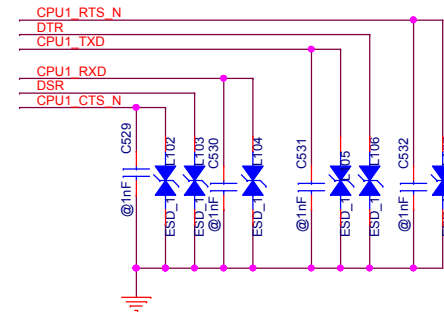
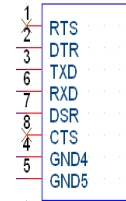
## A



A



2



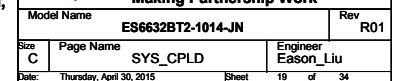
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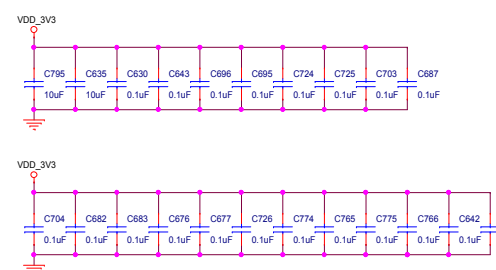


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|                   |                          |           |          |
|-------------------|--------------------------|-----------|----------|
| Model Name        |                          | Rev       |          |
| ES6632BT2-1014-JN |                          | R01       |          |
| Size              | Page Name                | Engineer  |          |
| B                 | Console / MGNT           | Eason_Liu |          |
| Date:             | Thursday, April 30, 2015 | Sheet     | 18 of 34 |

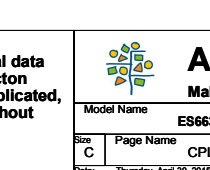
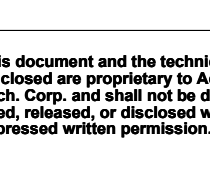
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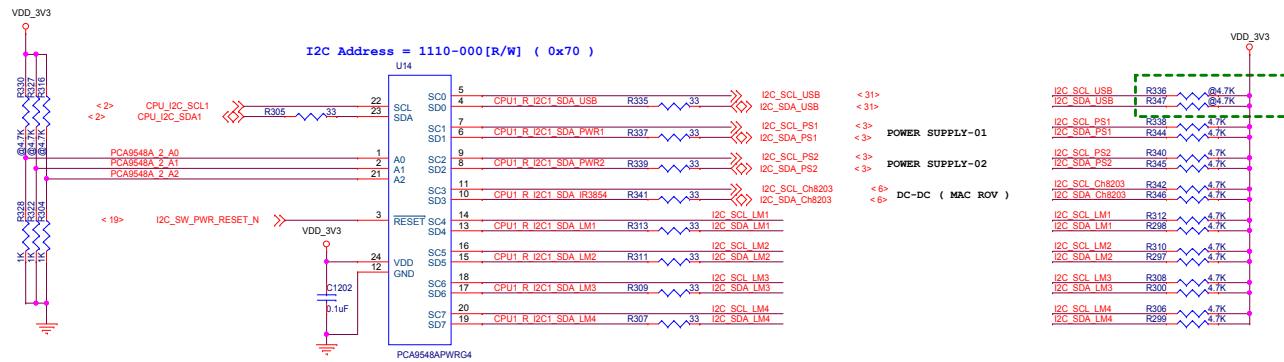




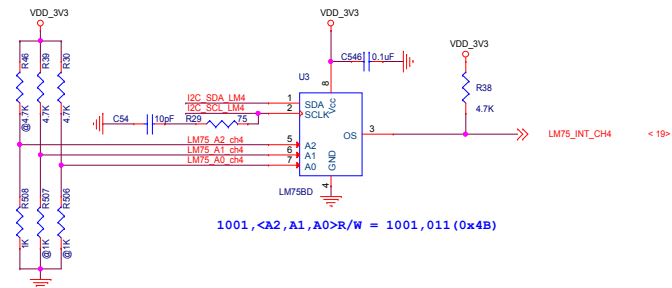
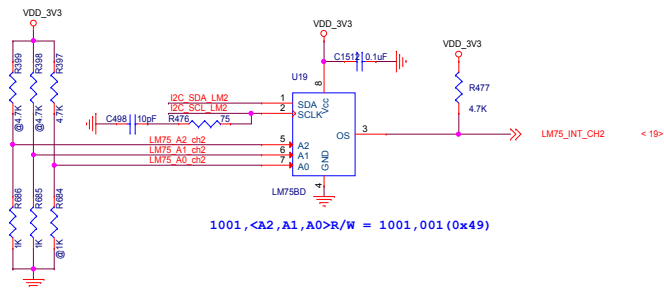
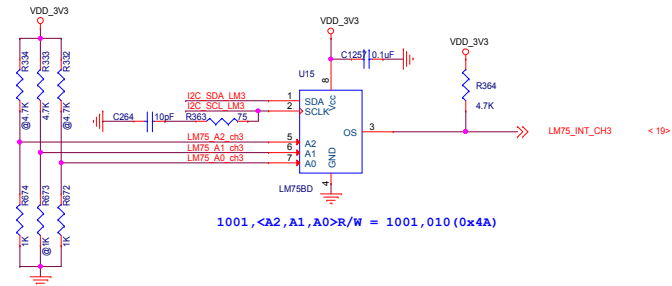
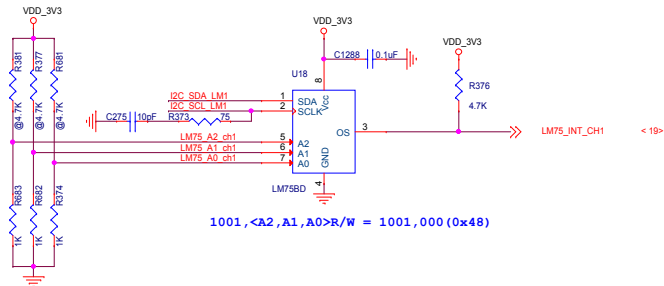
3



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| Model Name |                          | ES6632BT2-1014-JN |       | Rev |           | R01   |  |
| Size       | Page Name                |                   | CPLD3 |     | Engineer  |       |  |
| C          |                          |                   |       |     | Eason_Liu |       |  |
| Date:      | Thursday, April 30, 2015 |                   | Sheet | 21  |           | of 34 |  |



## THERMAL SENSOR

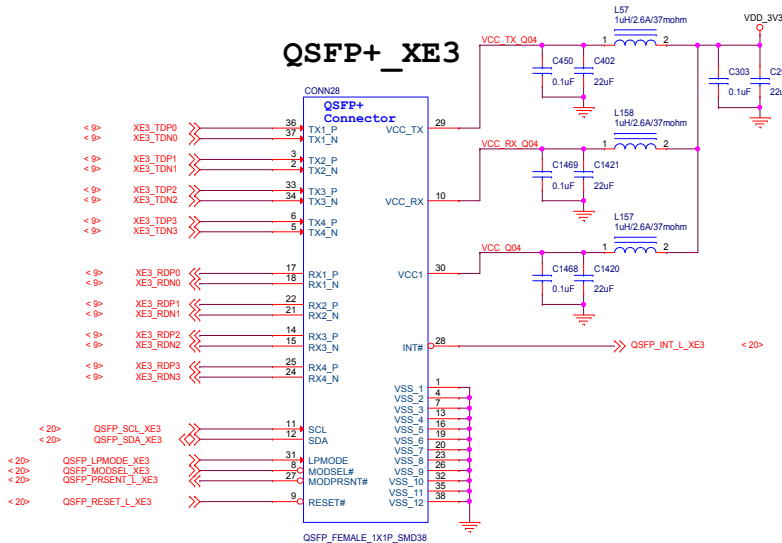
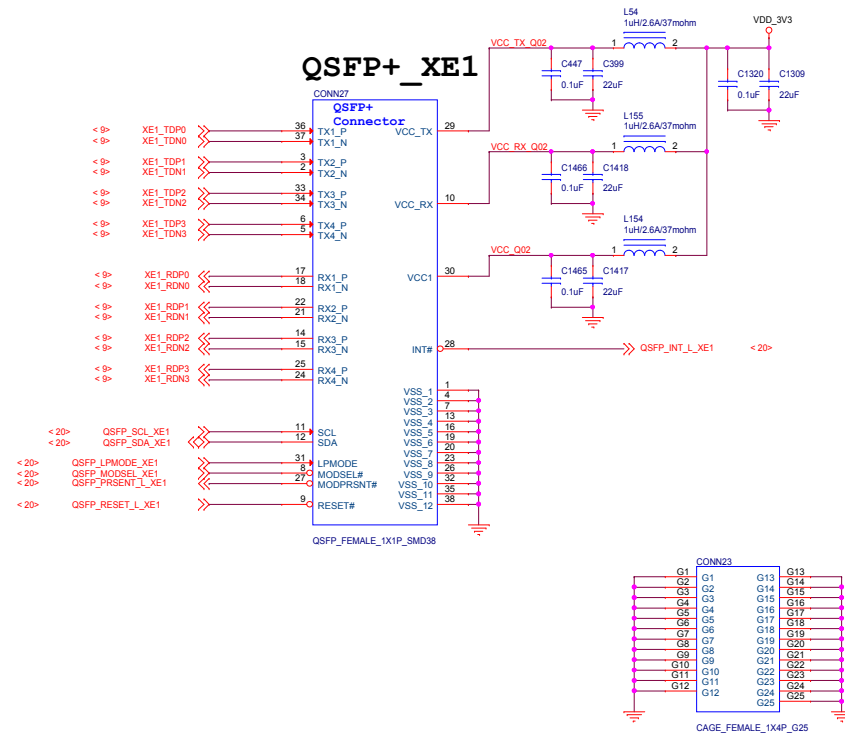
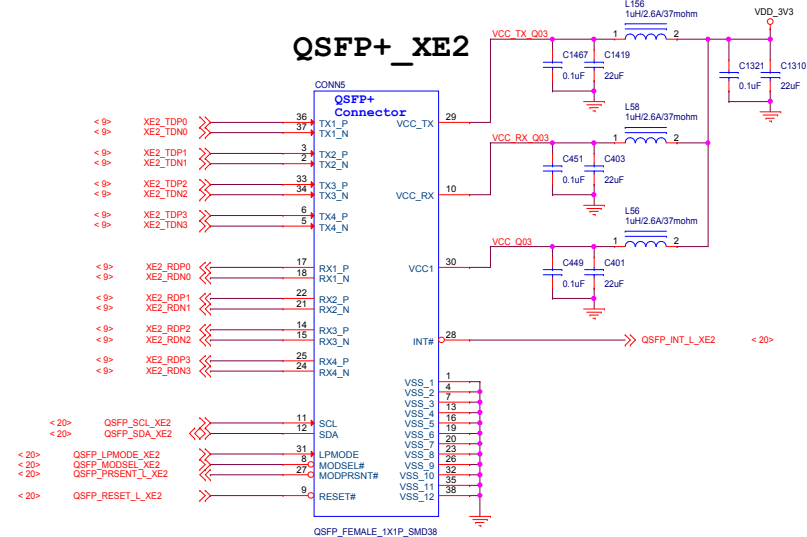
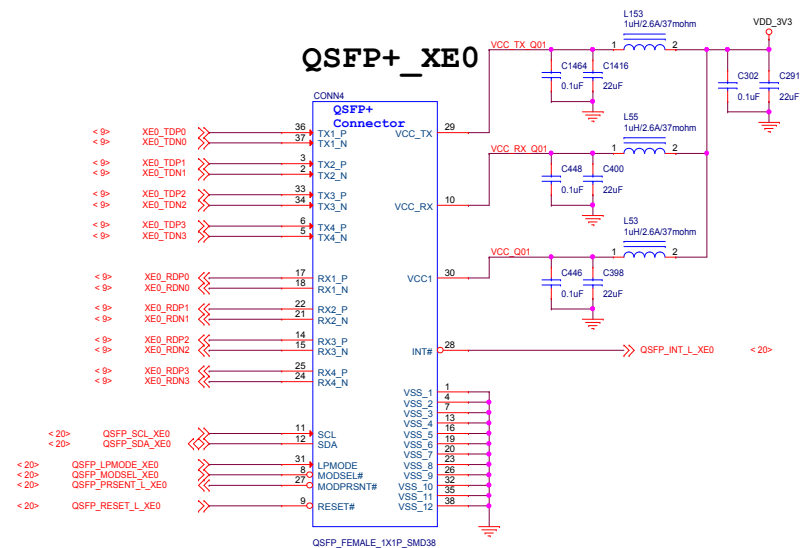


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|------------|--------------------------|----------|-----------|
| Model Name | ES6632BT2-1014-JN        | Rev      | R01       |
| Size       | Page Name                | Engineer | Eason_Liu |
| C          | Thermal sensor           |          |           |
| Date:      | Thursday, April 30, 2015 | Sheet    | 22 of 34  |



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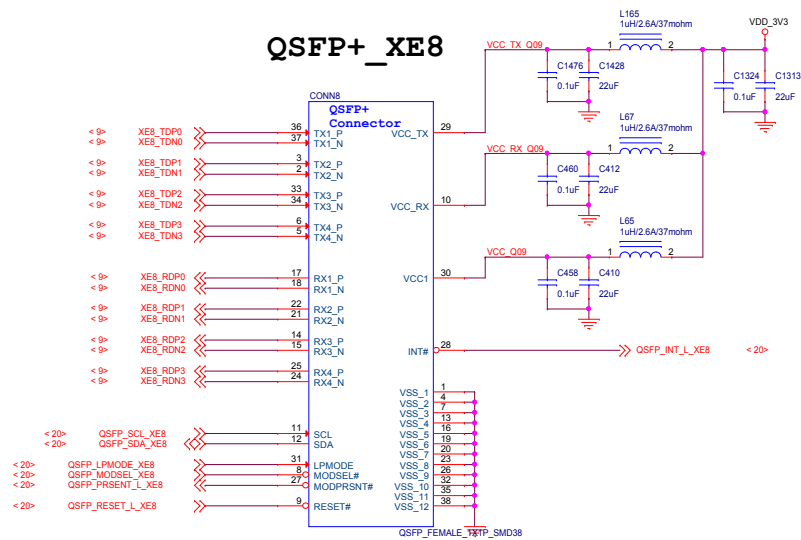
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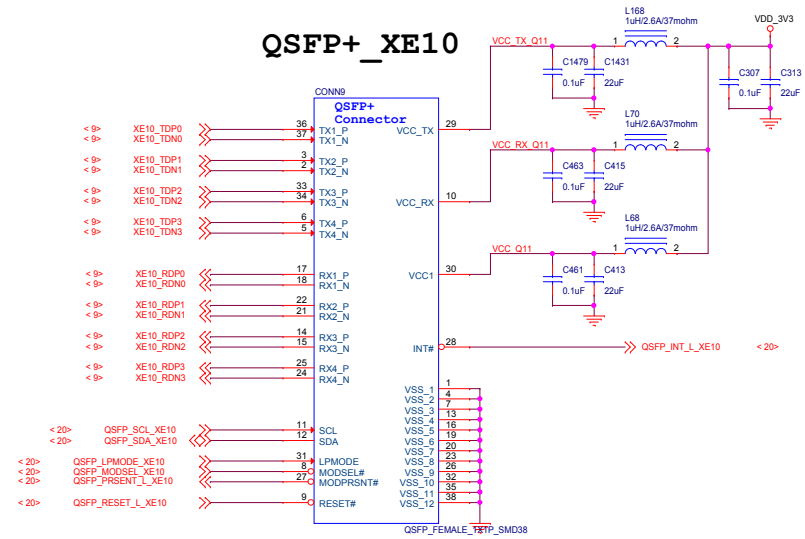
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|------------|--------------------------|-----------|---------------|
| Model Name | ES6632BT2-1014-JN        | Rev       | R01           |
| Size       | C                        | Page Name | QSFP+_XE0-XE3 |
| Engineer   | Eason_Liu                |           |               |
| Date:      | Thursday, April 30, 2015 | Sheet     | 23 of 34      |



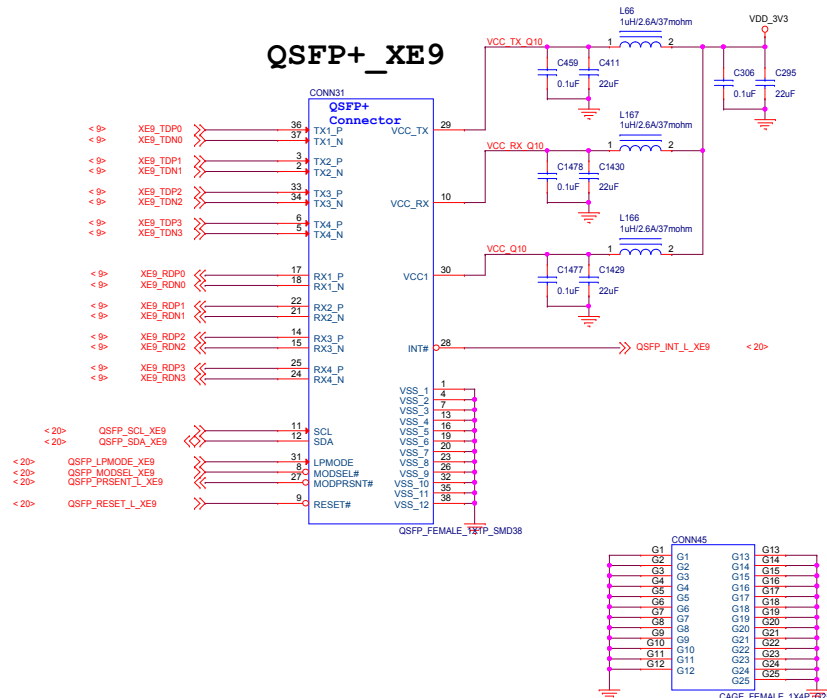
## QSFP+\_XE8



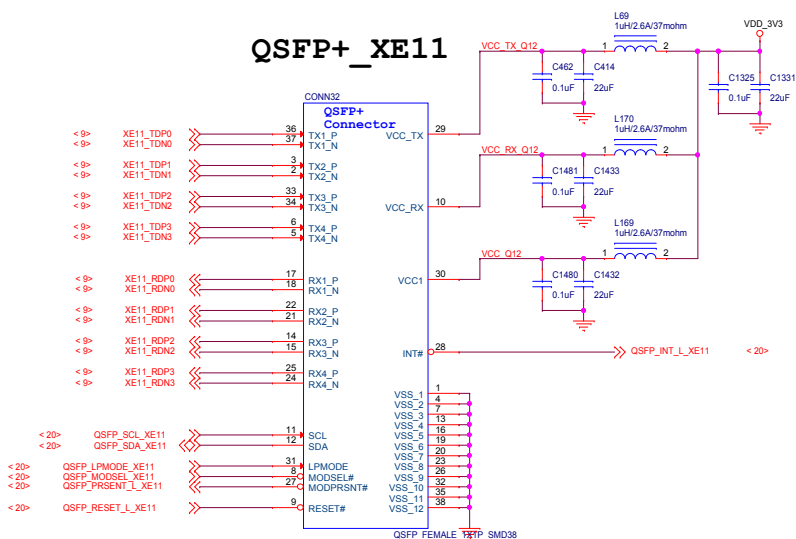
## QSFP+\_XE10



## QSFP+\_XE9



## QSFP+\_XE11



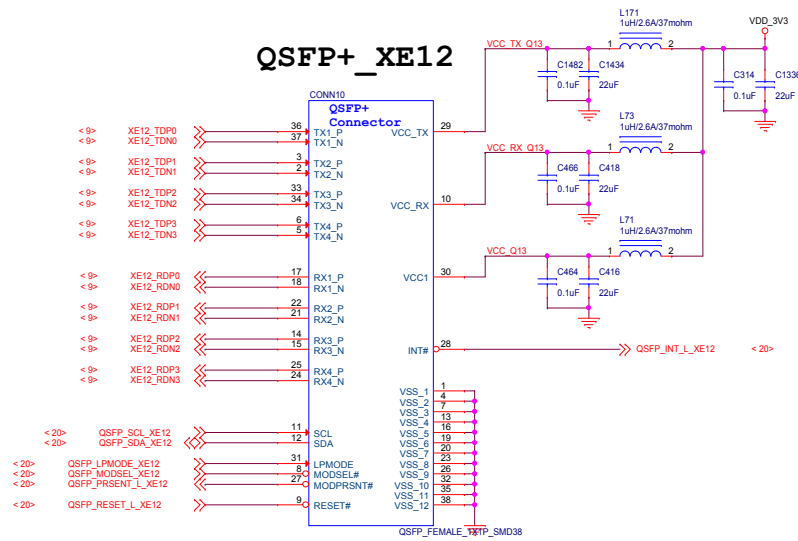
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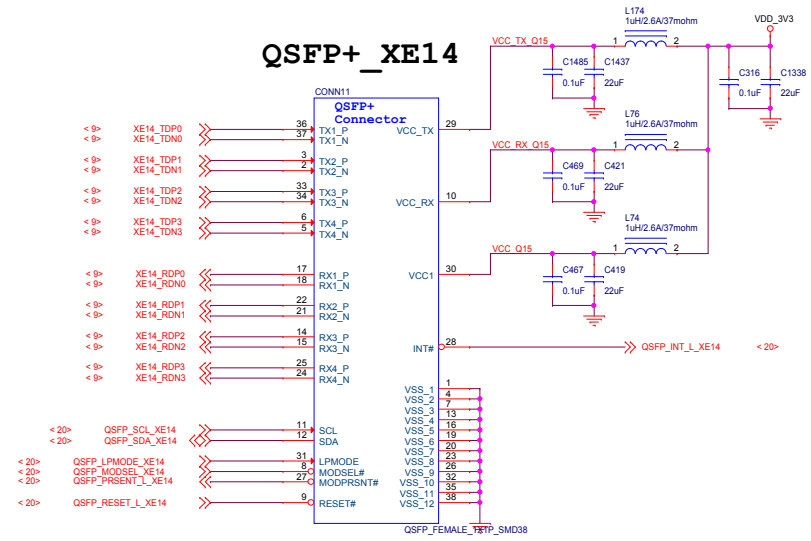
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|------------|-------------------|-----------|----------------|
| Model Name | ES6632BT2-1014-JN | Rev       | R01            |
| Size       | C                 | Page Name | QSFP+_XE8-XE11 |
| Engineer   | Eason_Liu         | Sheet     | 25 of 34       |

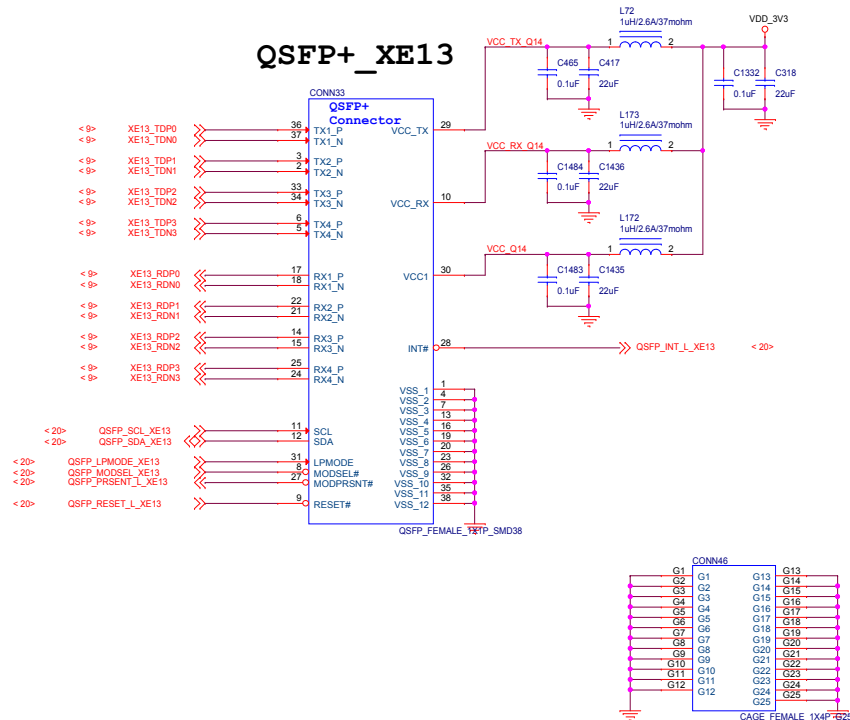
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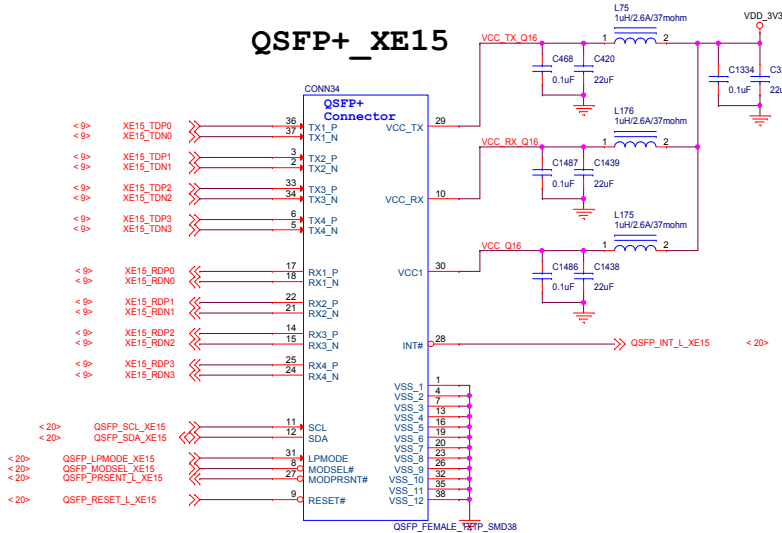
## QSFP+\_XE14



## QSFP+\_XE13



## QSFP+\_XE15



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|------------|--|--------------------------|----------------|
| Model Name |  | ES6632BT2-1014-JN        | Rev            |
| Size       |  | Page Name                | Engineer       |
| C          |  | QSFP+_XE12-XE15          | Eason_Liu      |
| Date:      |  | Thursday, April 30, 2015 | Sheet 26 of 34 |



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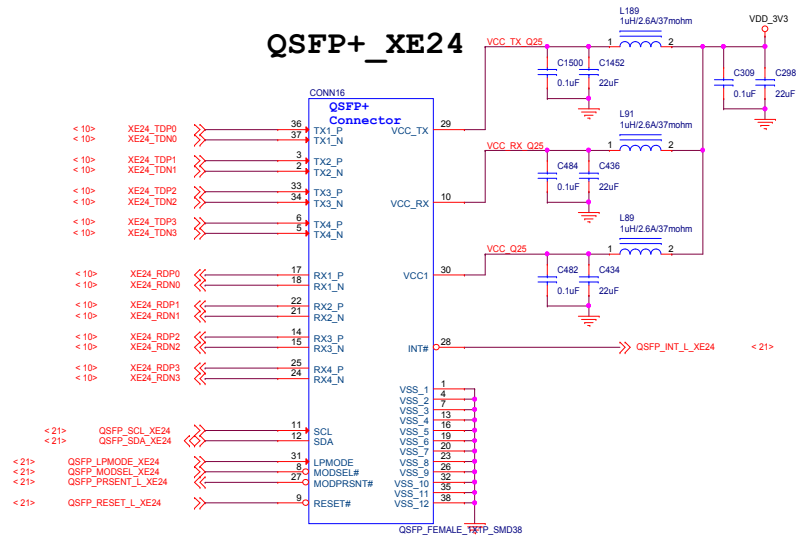


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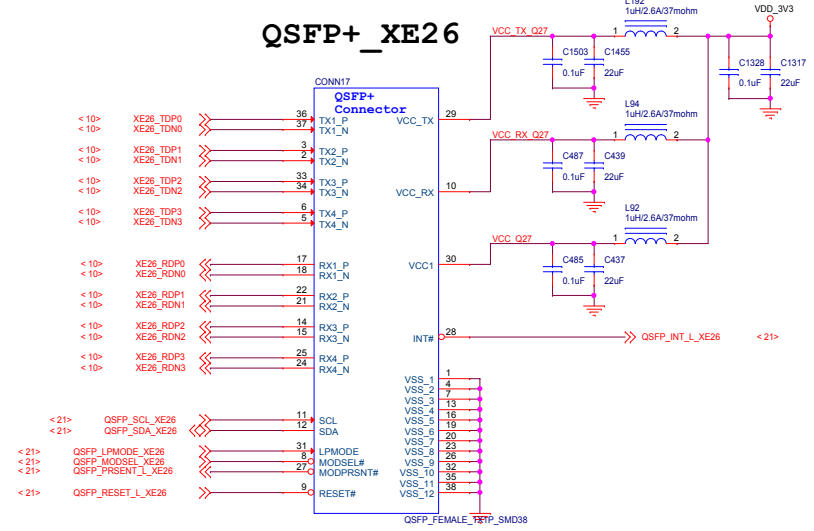
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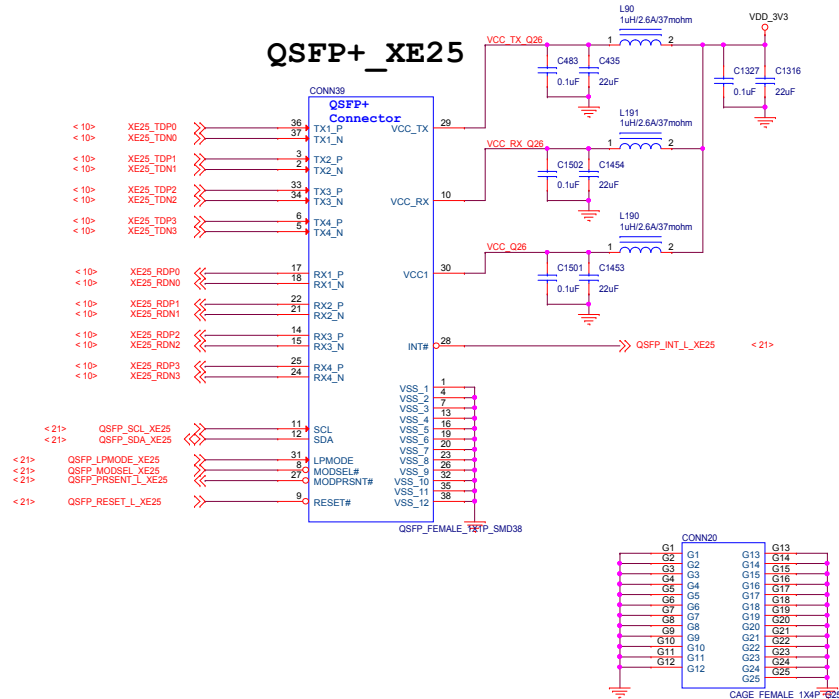
## QSFP+\_XE24



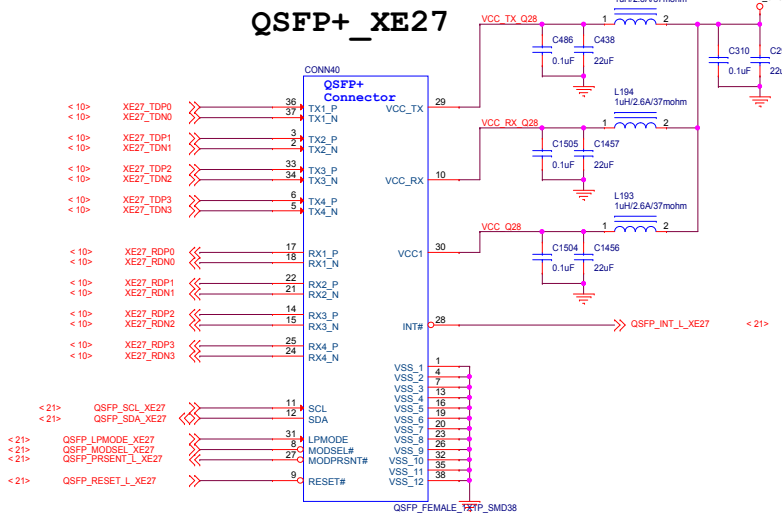
## QSFP+\_XE26



## QSFP+\_XE25



## QSFP+\_XE27



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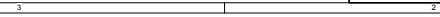


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|------------|--------------------------|-----------|-----------------|
| Model Name | ES6632BT2-1014-JN        | Rev       | R01             |
| Size       | C                        | Page Name | QSFP+_XE24-XE27 |
| Date       | Thursday, April 30, 2015 | Sheet     | 29 of 34        |

Engineer  
Eason\_Liu



2

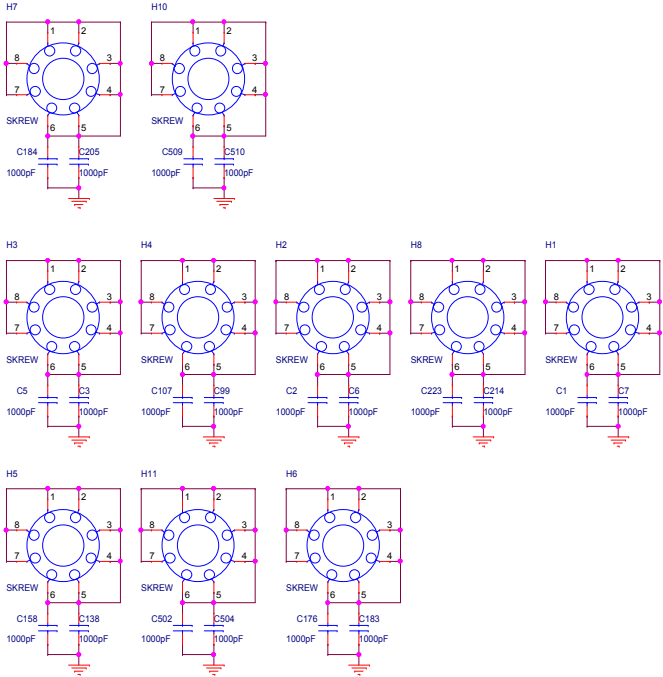
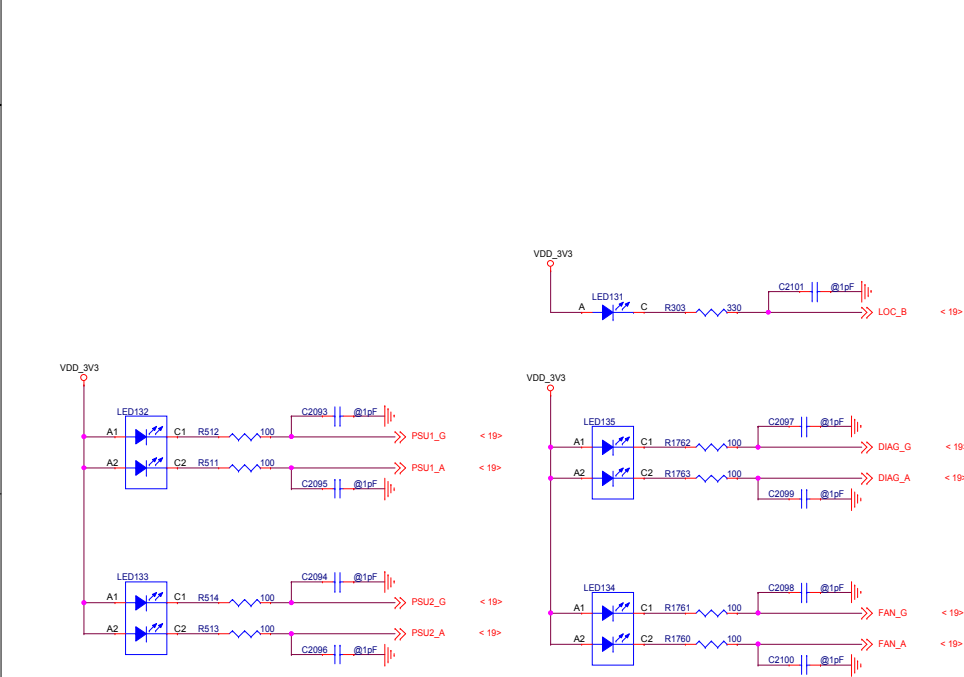
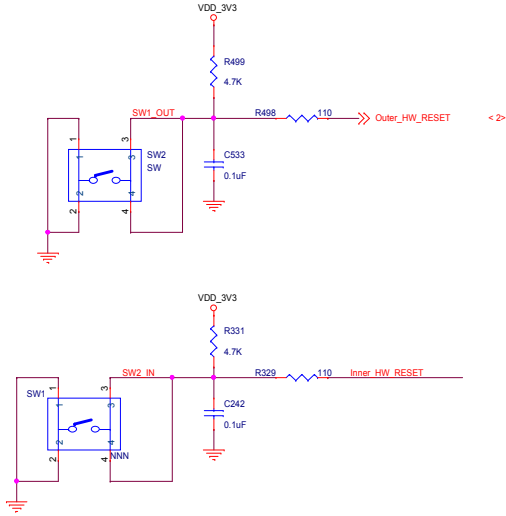
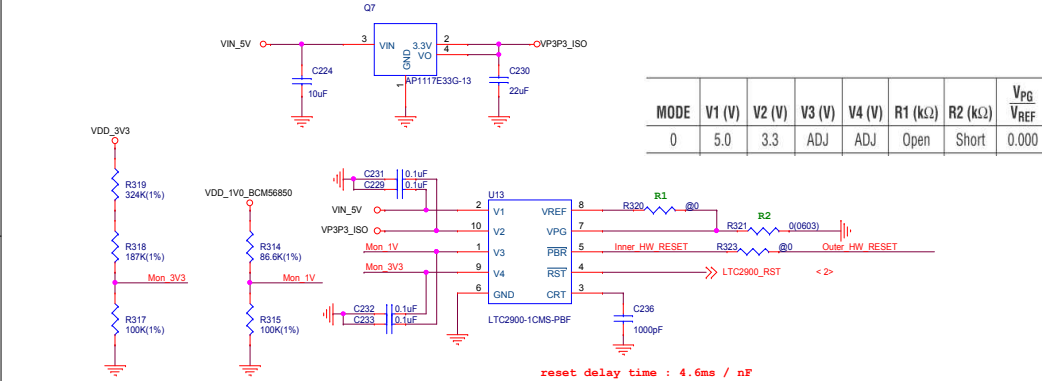




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|            |                          |                   |       |           |       |
|------------|--------------------------|-------------------|-------|-----------|-------|
| Model Name |                          | ES6632BT2-1014-JN |       | Rev       | R01   |
| Size       | Page Name                | USB               |       | Engineer  |       |
| C          |                          |                   |       | Eason_Liu |       |
| Date:      | Thursday, April 30, 2015 |                   | Sheet | 31        | of 34 |



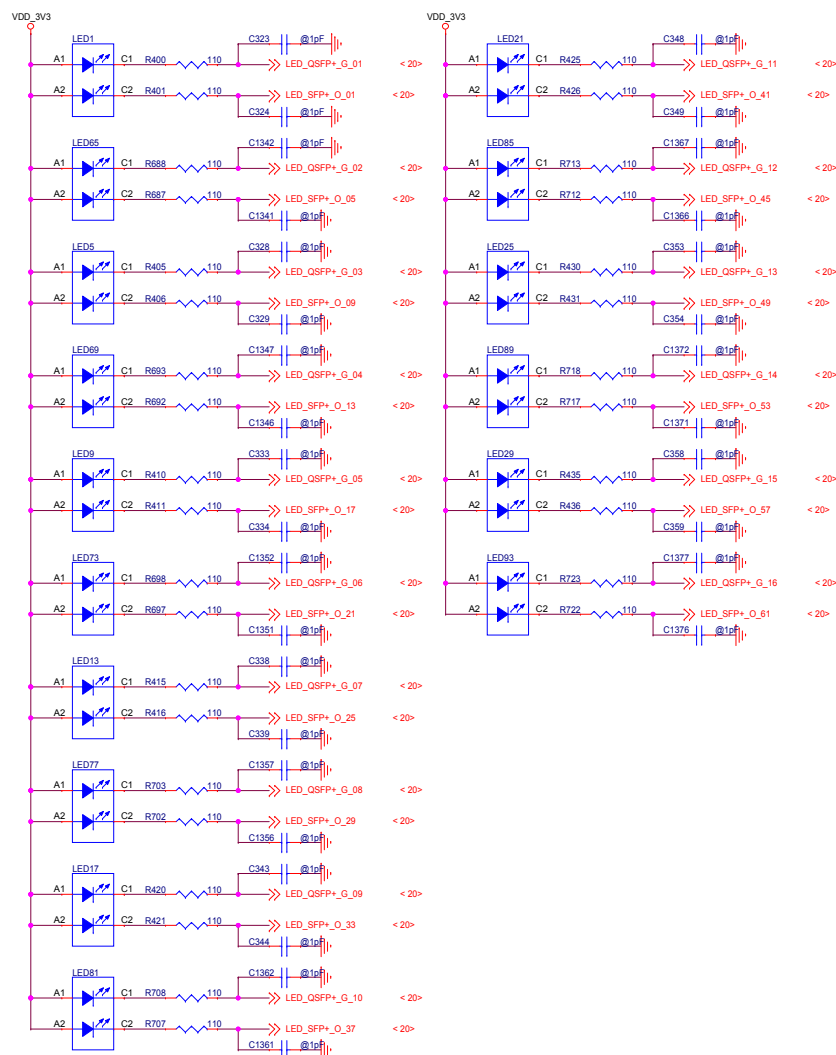
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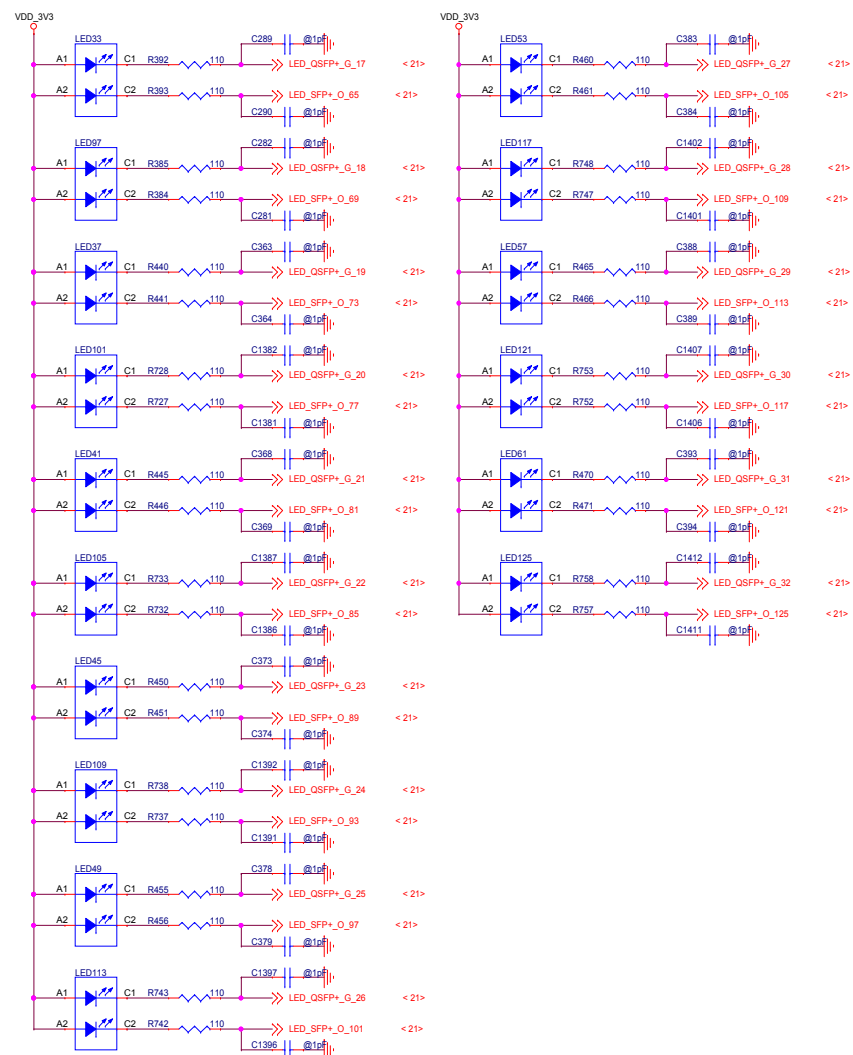
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|------------|--------------------------|-------------------|-----------------------|-------|
| Model Name |                          | ES6632BT2-1014-JN | Rev                   | R01   |
| Size       | Page Name                | Monitor / SYS LED | Engineer<br>Eason_Liu |       |
| Date:      | Thursday, April 30, 2015 | Sheet             | 32                    | of 34 |

## LED\_DATA\_0



## LED\_DATA\_1



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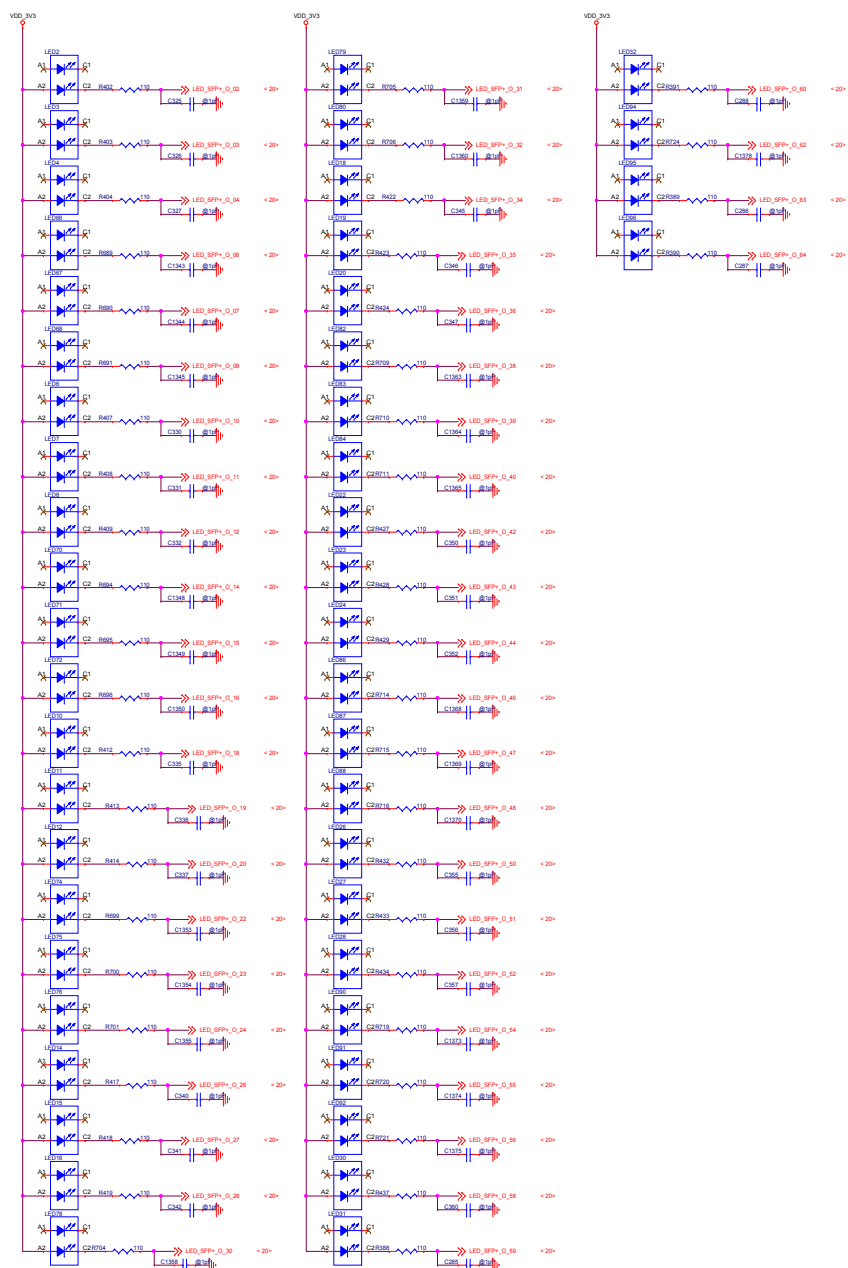


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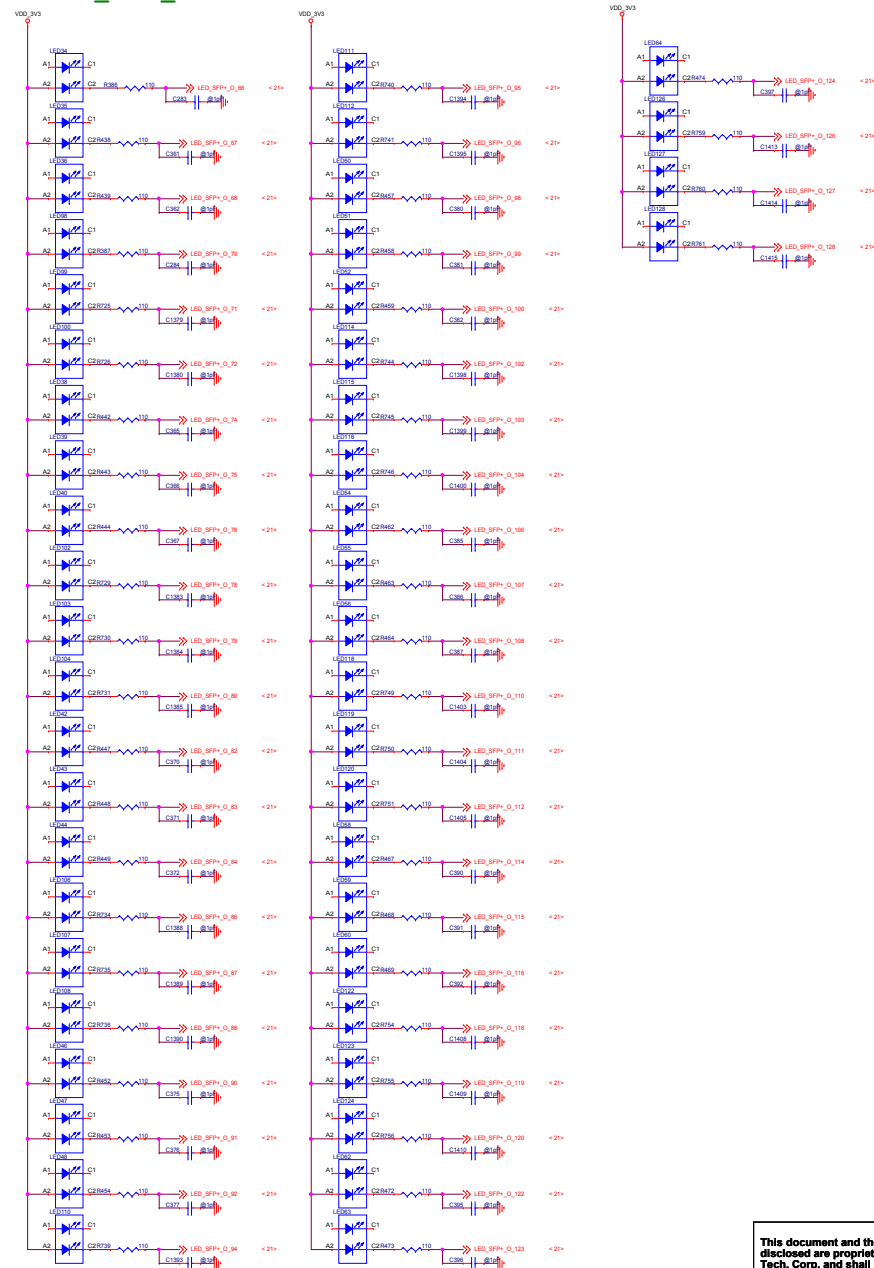
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|            |                          |                   |     |       |
|------------|--------------------------|-------------------|-----|-------|
| Model Name |                          | ES6632BT2-1014-JN | Rev | R01   |
| Size       | Page Name                | Engineer          |     |       |
| C          | LED                      | Eason_Liu         |     |       |
| Date:      | Thursday, April 30, 2015 | Sheet             | 33  | of 32 |

## LED DATA C



## LED DATA 1



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|------------|--------------------------|-------------------|--|-----------|----------|-----|--|
| Model Name |                          | ES6632BT2-1014-JN |  | Rev       |          | R01 |  |
| Size       | Page Name                |                   |  | Engineer  |          |     |  |
| D          | LED                      |                   |  | Eason_Liu |          |     |  |
| Date:      | Thursday, April 30, 2015 |                   |  | Sheet     | 34 of 32 |     |  |