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|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|------|--------------------------|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|------|------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|----|------|-------|------|------------------------|--------|--|--|--|--|--------|--|--|--|--|-------|--|--|--|--|-------------|--|--|--|--|---------------|--|--|--|--|------------------------|-----------------------------------------|--|--|--|--|--------------------------|--|--|--|--|--|------------|--|
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| B                                       |                                                                                                                                                                                                                                                                                                                                  |      |       |      |                          |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |    |      |       |      |                        |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |             |  |  |  |  |               |  |  |  |  |                        |                                         |  |  |  |  |                          |  |  |  |  |  |            |  |
| C                                       | <div><h1>Hublot-UMA</h1><h2>PV_DDR3 (A01)</h2><div>http://hobi-elektronika.net/2009.04.21</div></div>                                                                                                                                                                                                                            |      |       |      |                          |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |    |      |       |      |                        |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |             |  |  |  |  |               |  |  |  |  |                        |                                         |  |  |  |  |                          |  |  |  |  |  |            |  |
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| E                                       |                                                                                                                                                                                                                                                                                                                                  |      |       |      |                          |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |    |      |       |      |                        |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |             |  |  |  |  |               |  |  |  |  |                        |                                         |  |  |  |  |                          |  |  |  |  |  |            |  |
| F                                       | <table><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td>DATE</td><td>CHANGE NO.</td><td>REV</td></tr></table> |      |       |      |                          |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | DATE | CHANGE NO. | REV | <table><tr><td></td><td>EE</td><td>DATE</td><td>POWER</td><td>DATE</td><td rowspan="5">INVENTEC<br/>Hublot_UMA</td></tr><tr><td>DRAWER</td><td></td><td></td><td></td><td></td></tr><tr><td>DESIGN</td><td></td><td></td><td></td><td></td></tr><tr><td>CHECK</td><td></td><td></td><td></td><td></td></tr><tr><td>RESPONSIBLE</td><td></td><td></td><td></td><td></td></tr><tr><td colspan="5">SIZE = 3VER :</td><td>SIZECODEDOC. NUMBERREV</td></tr><tr><td colspan="5">FILE NAME : XXXX-XXXXXX-XXP/NXXXXXXXXXX</td><td>A3CS1310A22592-0-MTR A01</td></tr><tr><td colspan="5"></td><td>SHEET1OF54</td></tr></table> |  |  |  |  |  |  |  | EE | DATE | POWER | DATE | INVENTEC<br>Hublot_UMA | DRAWER |  |  |  |  | DESIGN |  |  |  |  | CHECK |  |  |  |  | RESPONSIBLE |  |  |  |  | SIZE = 3VER : |  |  |  |  | SIZECODEDOC. NUMBERREV | FILE NAME : XXXX-XXXXXX-XXP/NXXXXXXXXXX |  |  |  |  | A3CS1310A22592-0-MTR A01 |  |  |  |  |  | SHEET1OF54 |  |
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| DATE                                    | CHANGE NO.                                                                                                                                                                                                                                                                                                                       | REV  |       |      |                          |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |    |      |       |      |                        |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |             |  |  |  |  |               |  |  |  |  |                        |                                         |  |  |  |  |                          |  |  |  |  |  |            |  |
|                                         | EE                                                                                                                                                                                                                                                                                                                               | DATE | POWER | DATE | INVENTEC<br>Hublot_UMA   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |    |      |       |      |                        |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |             |  |  |  |  |               |  |  |  |  |                        |                                         |  |  |  |  |                          |  |  |  |  |  |            |  |
| DRAWER                                  |                                                                                                                                                                                                                                                                                                                                  |      |       |      |                          |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |    |      |       |      |                        |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |             |  |  |  |  |               |  |  |  |  |                        |                                         |  |  |  |  |                          |  |  |  |  |  |            |  |
| DESIGN                                  |                                                                                                                                                                                                                                                                                                                                  |      |       |      |                          |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |    |      |       |      |                        |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |             |  |  |  |  |               |  |  |  |  |                        |                                         |  |  |  |  |                          |  |  |  |  |  |            |  |
| CHECK                                   |                                                                                                                                                                                                                                                                                                                                  |      |       |      |                          |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |    |      |       |      |                        |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |             |  |  |  |  |               |  |  |  |  |                        |                                         |  |  |  |  |                          |  |  |  |  |  |            |  |
| RESPONSIBLE                             |                                                                                                                                                                                                                                                                                                                                  |      |       |      |                          |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |    |      |       |      |                        |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |             |  |  |  |  |               |  |  |  |  |                        |                                         |  |  |  |  |                          |  |  |  |  |  |            |  |
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| FILE NAME : XXXX-XXXXXX-XXP/NXXXXXXXXXX |                                                                                                                                                                                                                                                                                                                                  |      |       |      | A3CS1310A22592-0-MTR A01 |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |            |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |    |      |       |      |                        |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |             |  |  |  |  |               |  |  |  |  |                        |                                         |  |  |  |  |                          |  |  |  |  |  |            |  |
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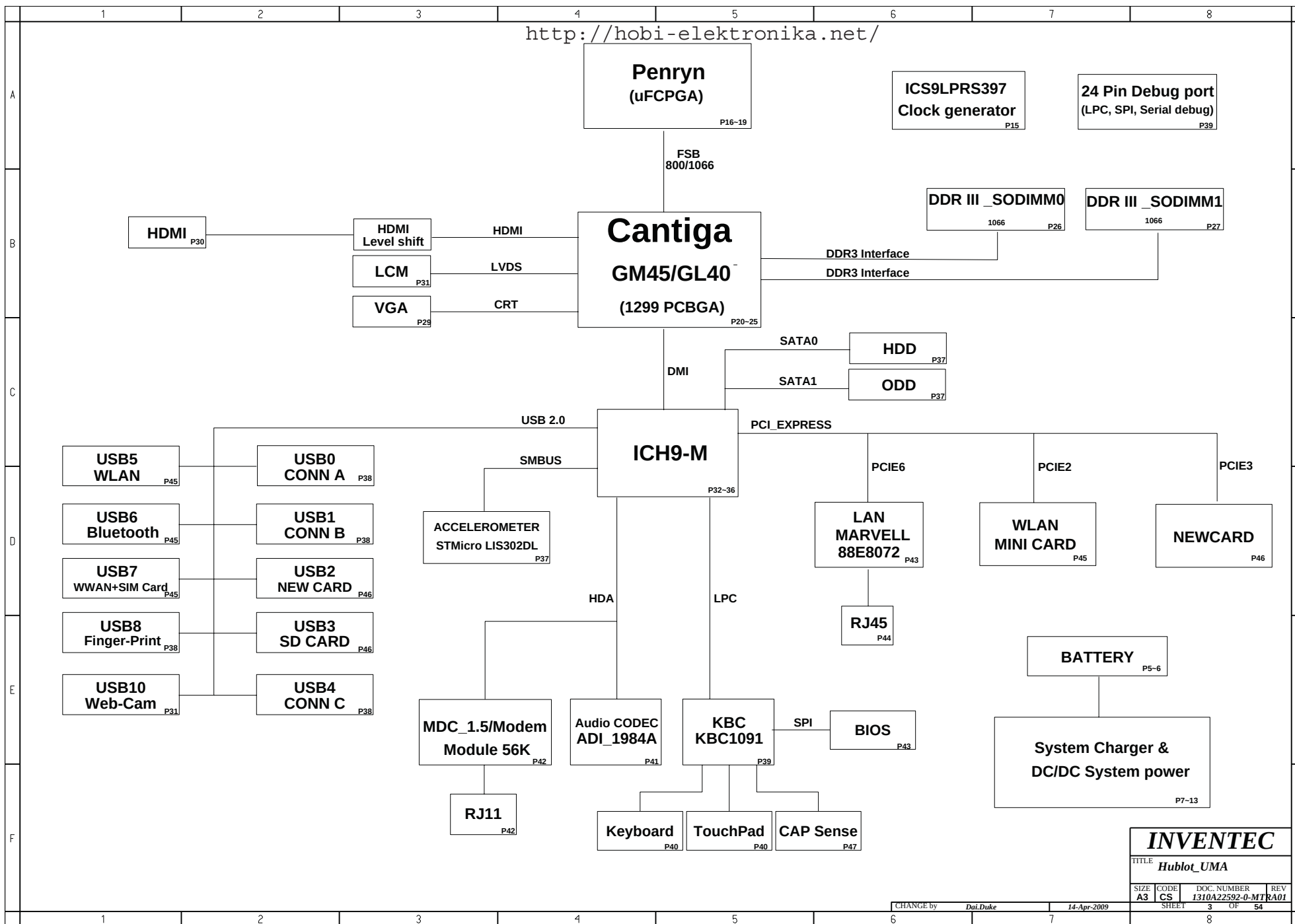
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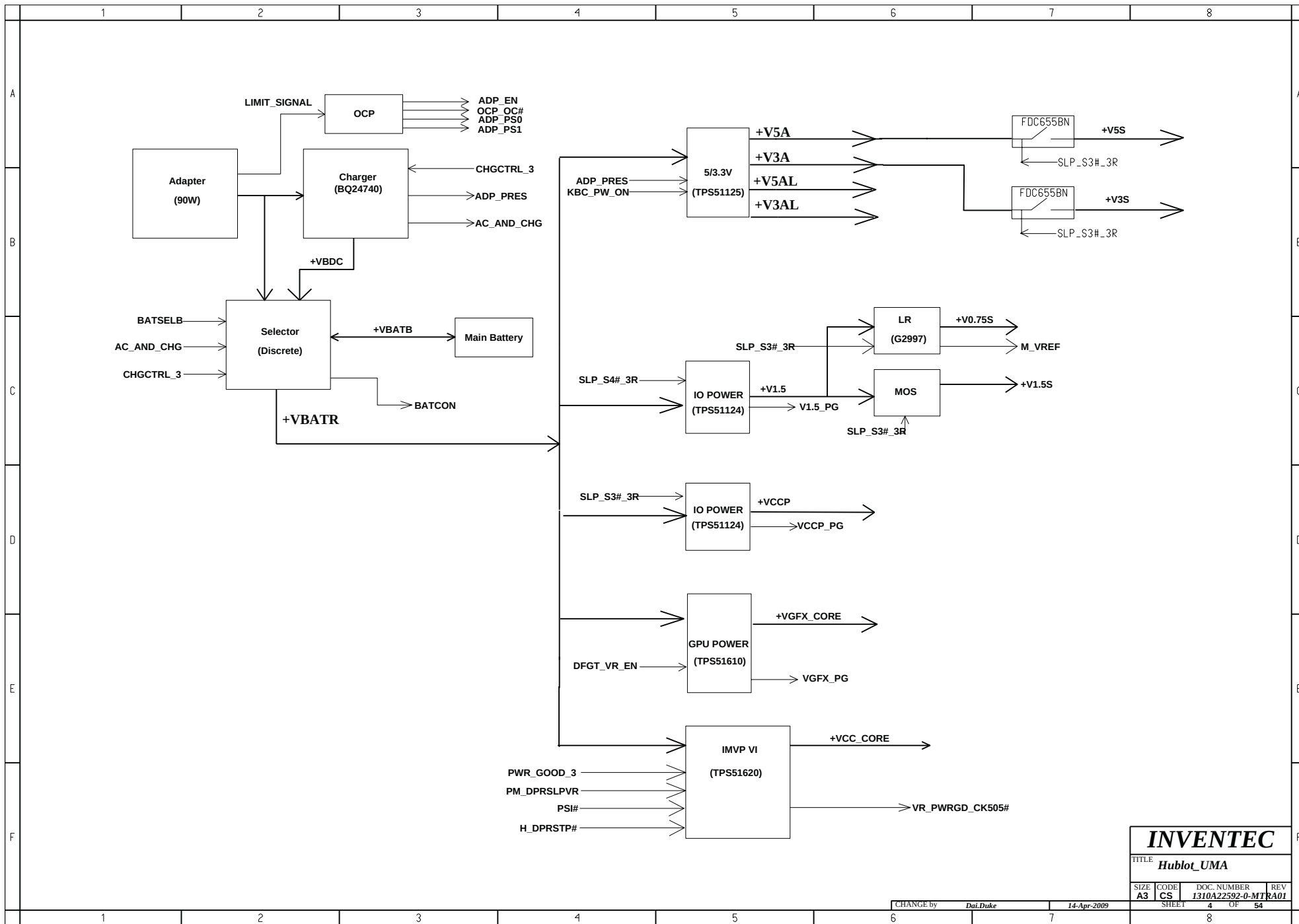
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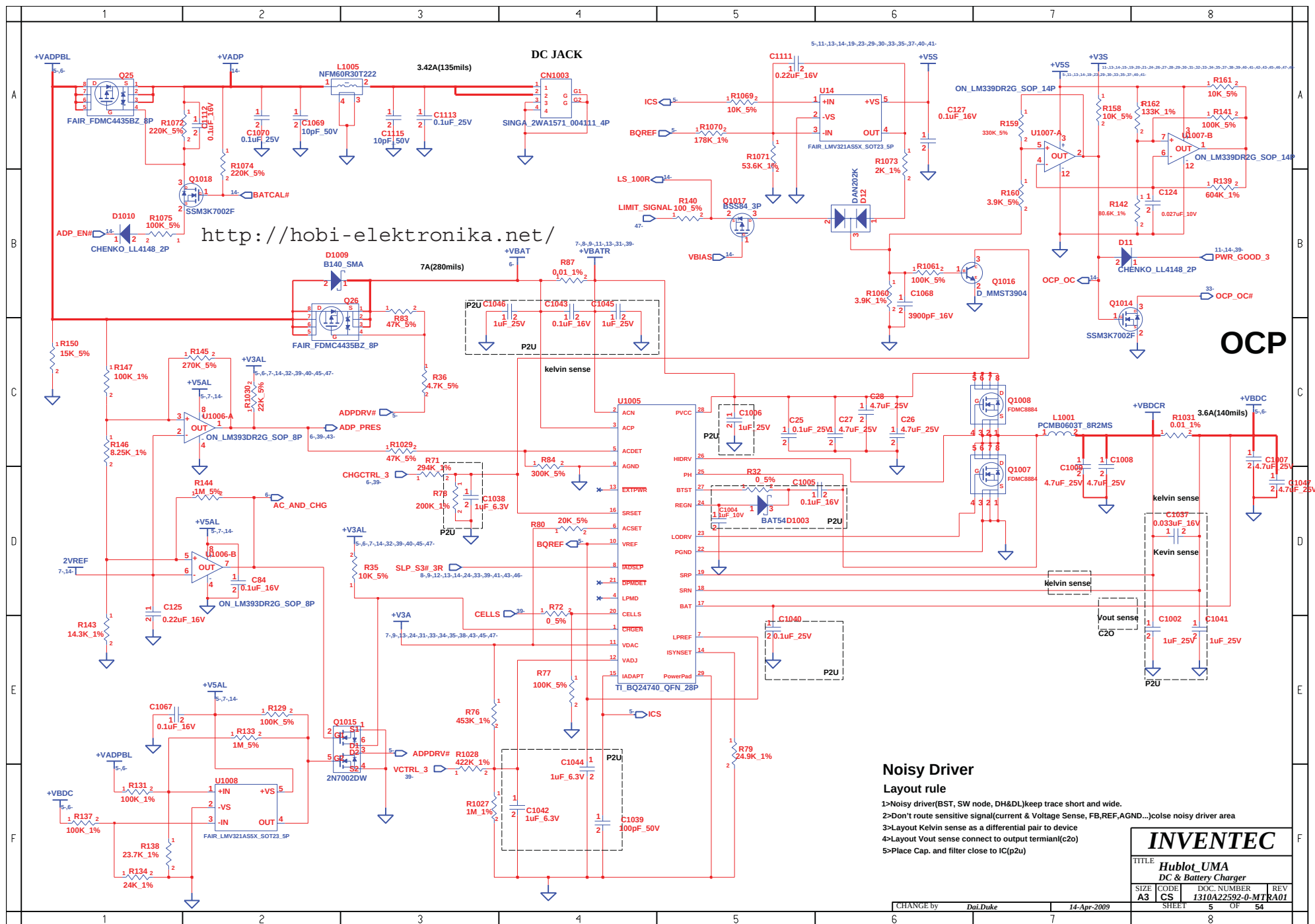
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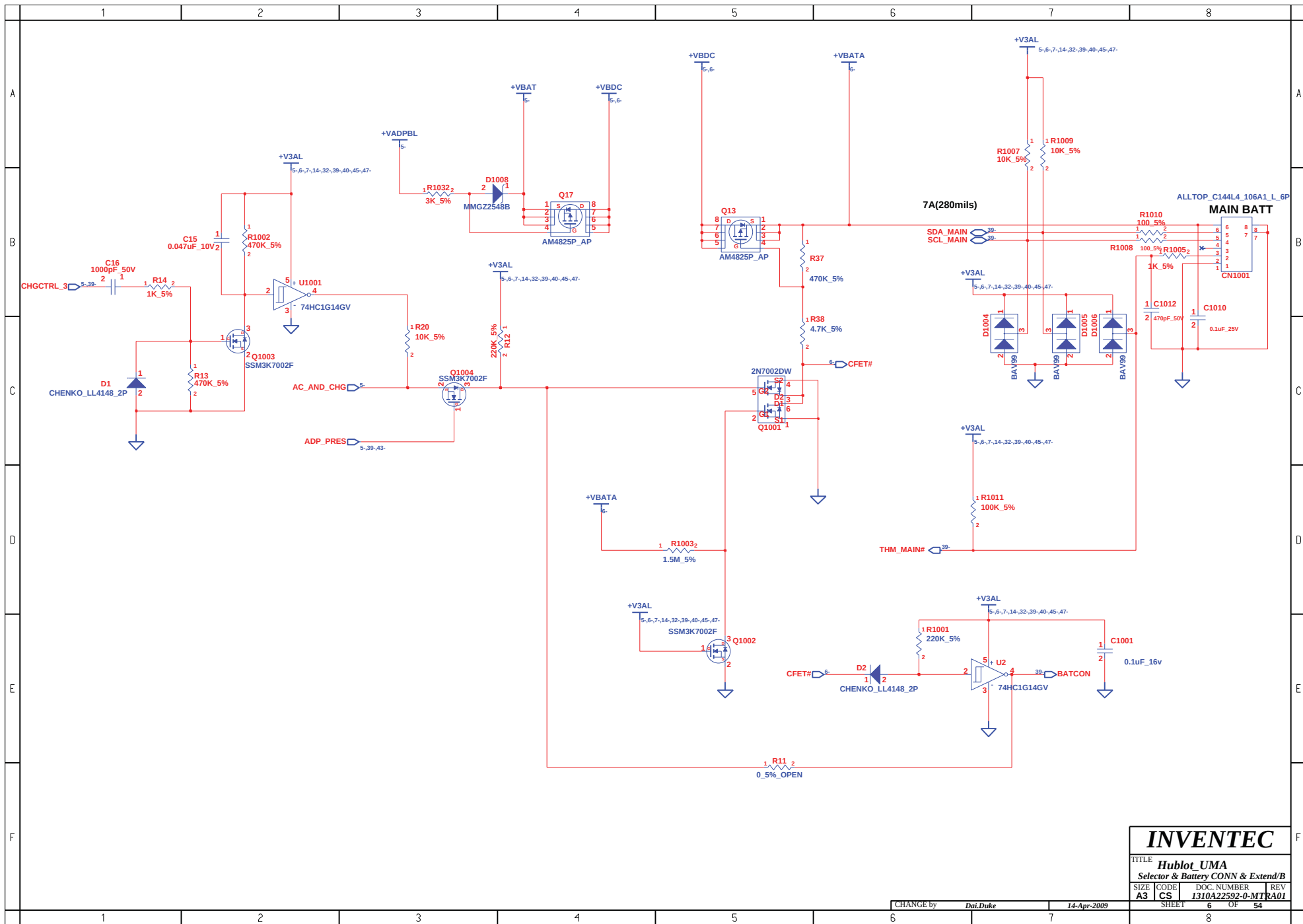
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CHANGE by *Dal.Duke* 14-Apr-2009











[illegible]

|                                                       |           |                          |       |
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| TITLE                                                 |           |                          |       |
| <b>Hublot_UMA</b><br><b>System Power(+V1.5/+VCCP)</b> |           |                          |       |
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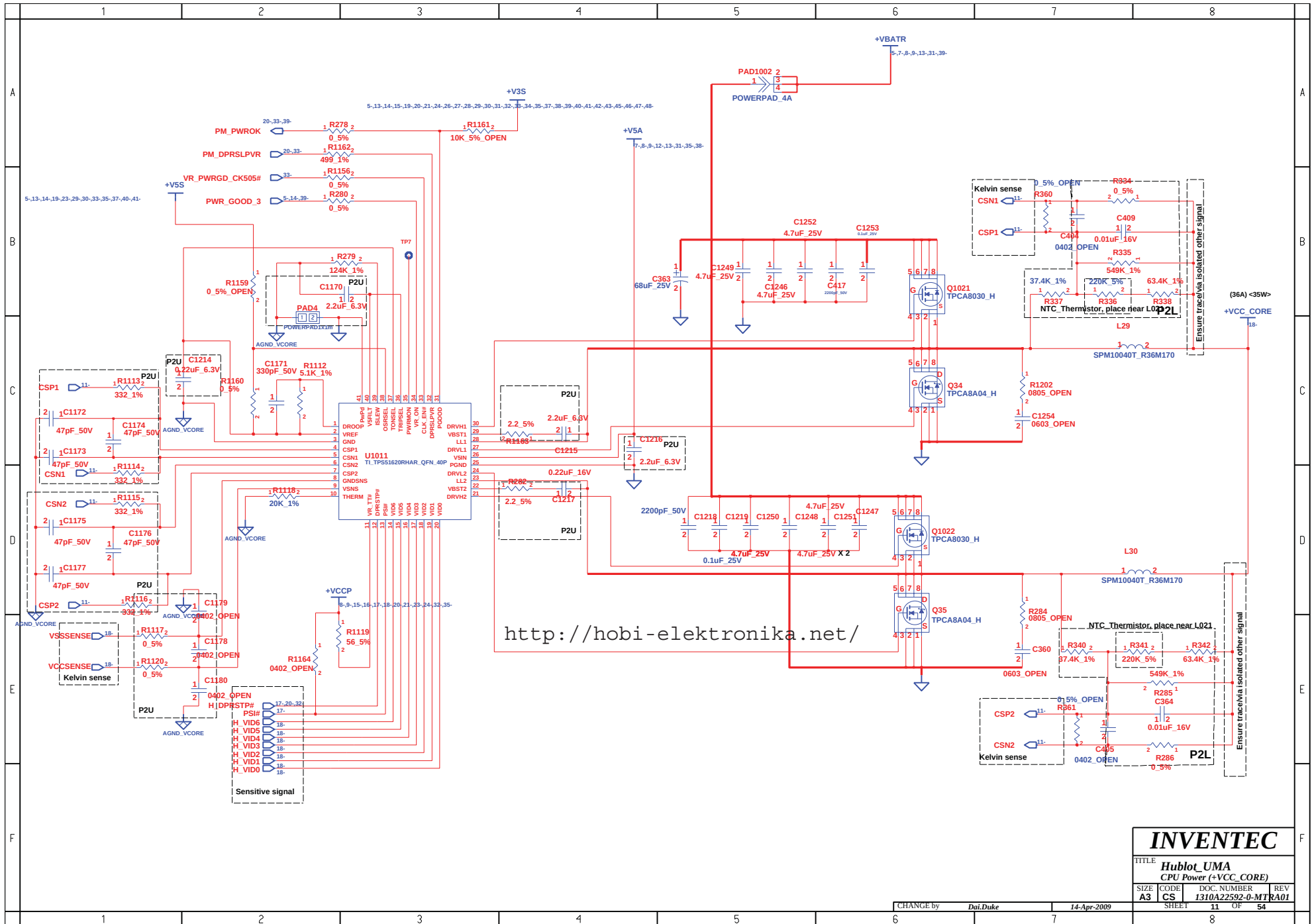
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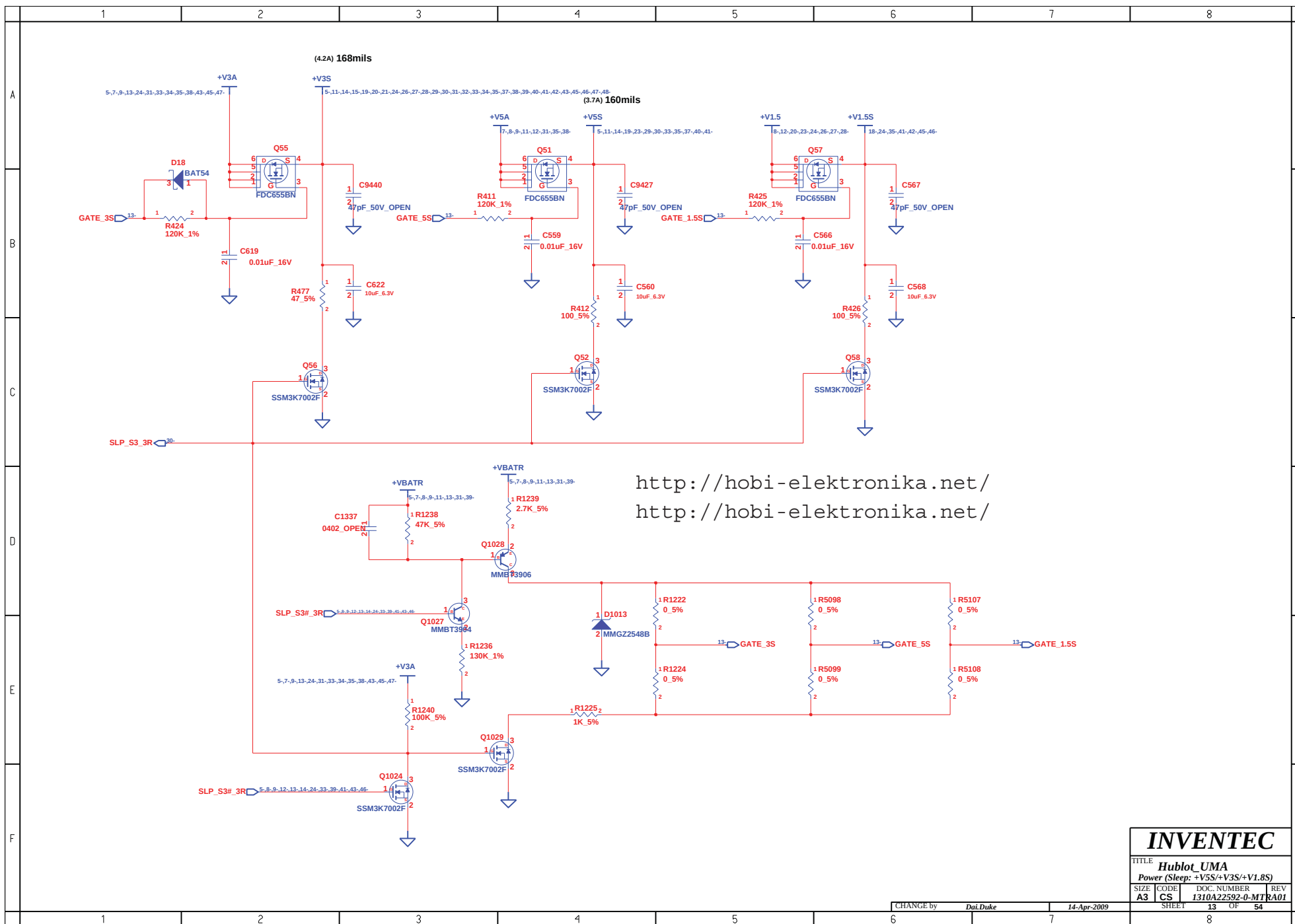
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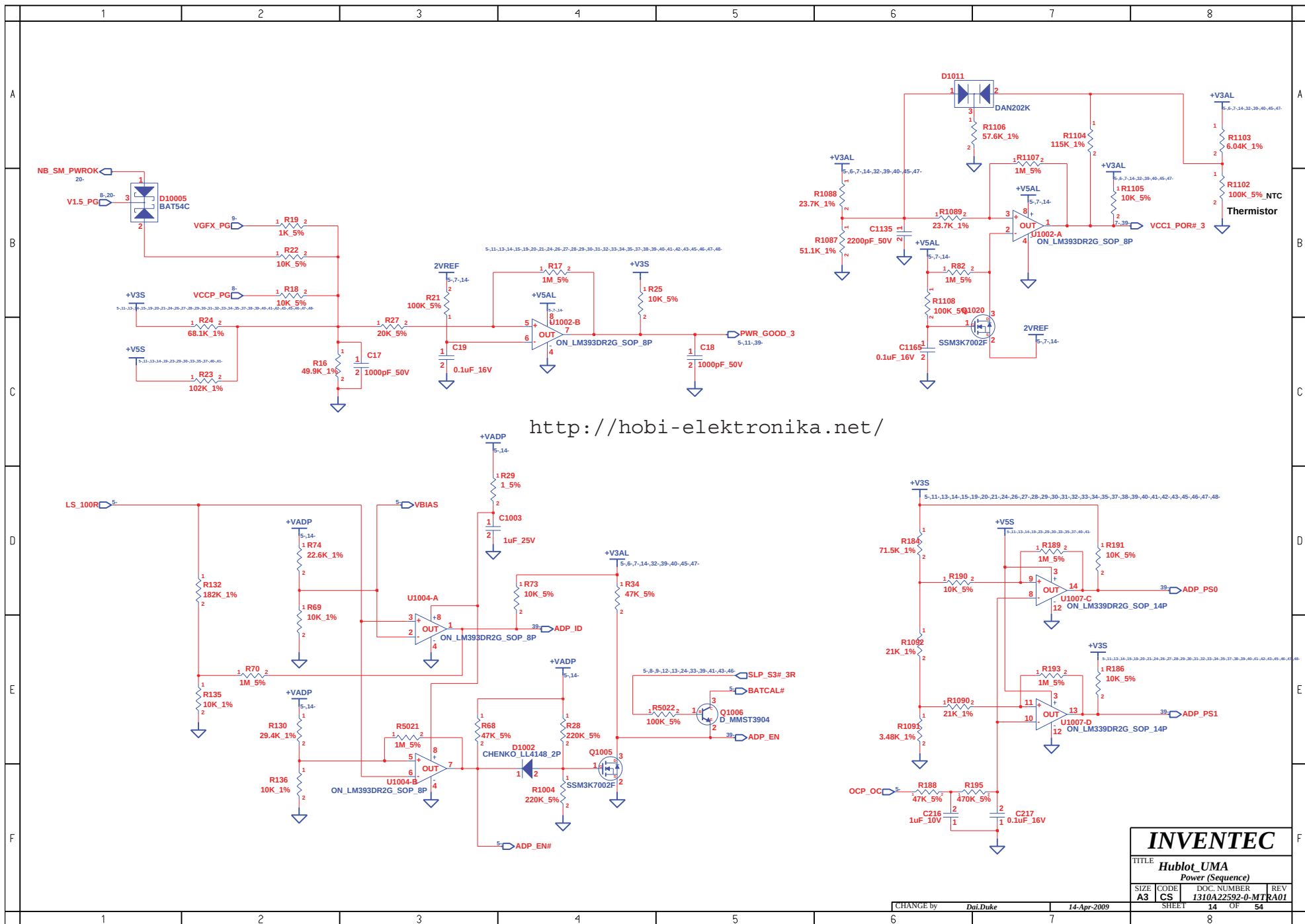


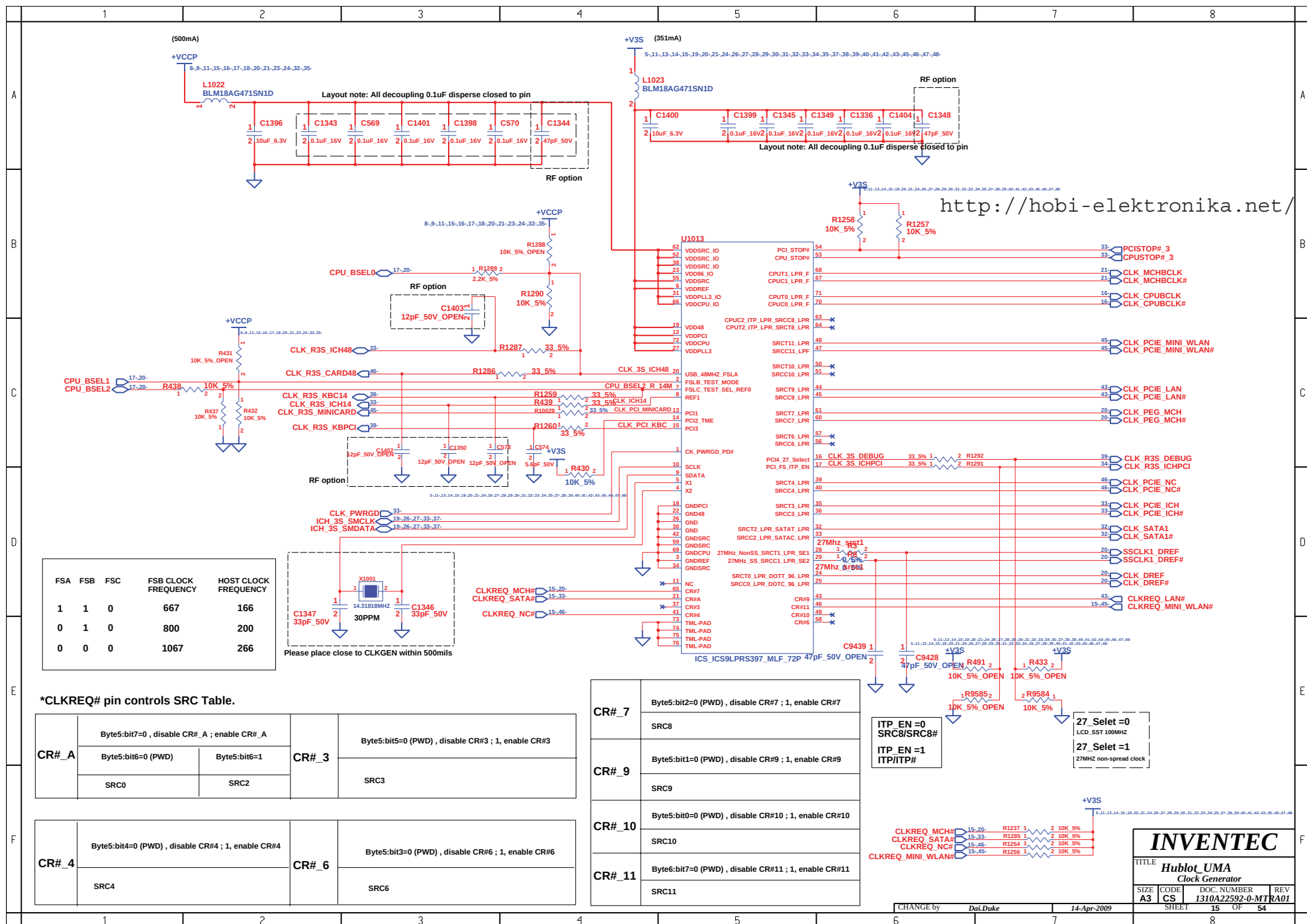
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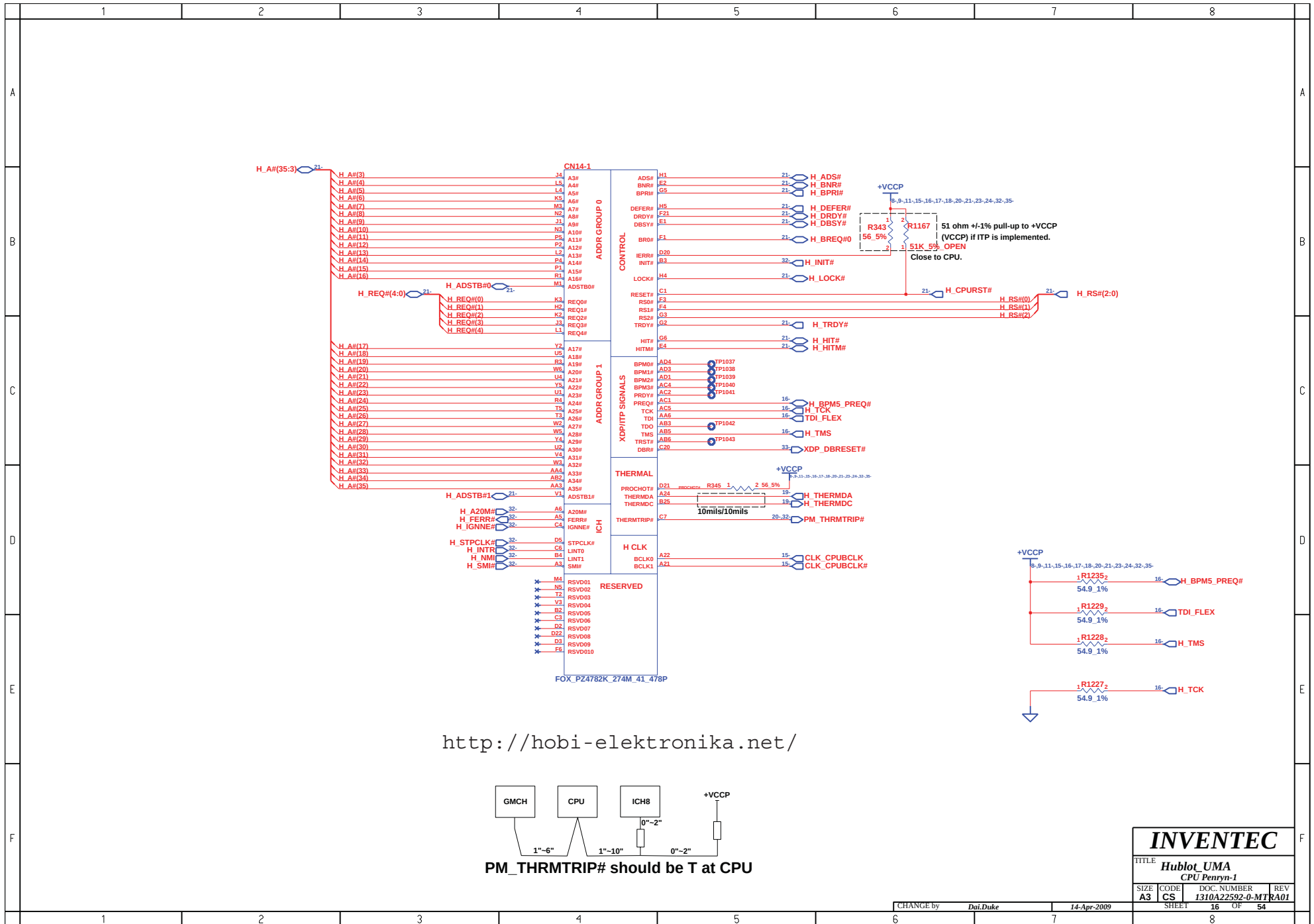
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| CHANGE by             |      | DATE             | SHEET    |
| DuDuke                |      | 14-Apr-2009      | 11 OF 54 |

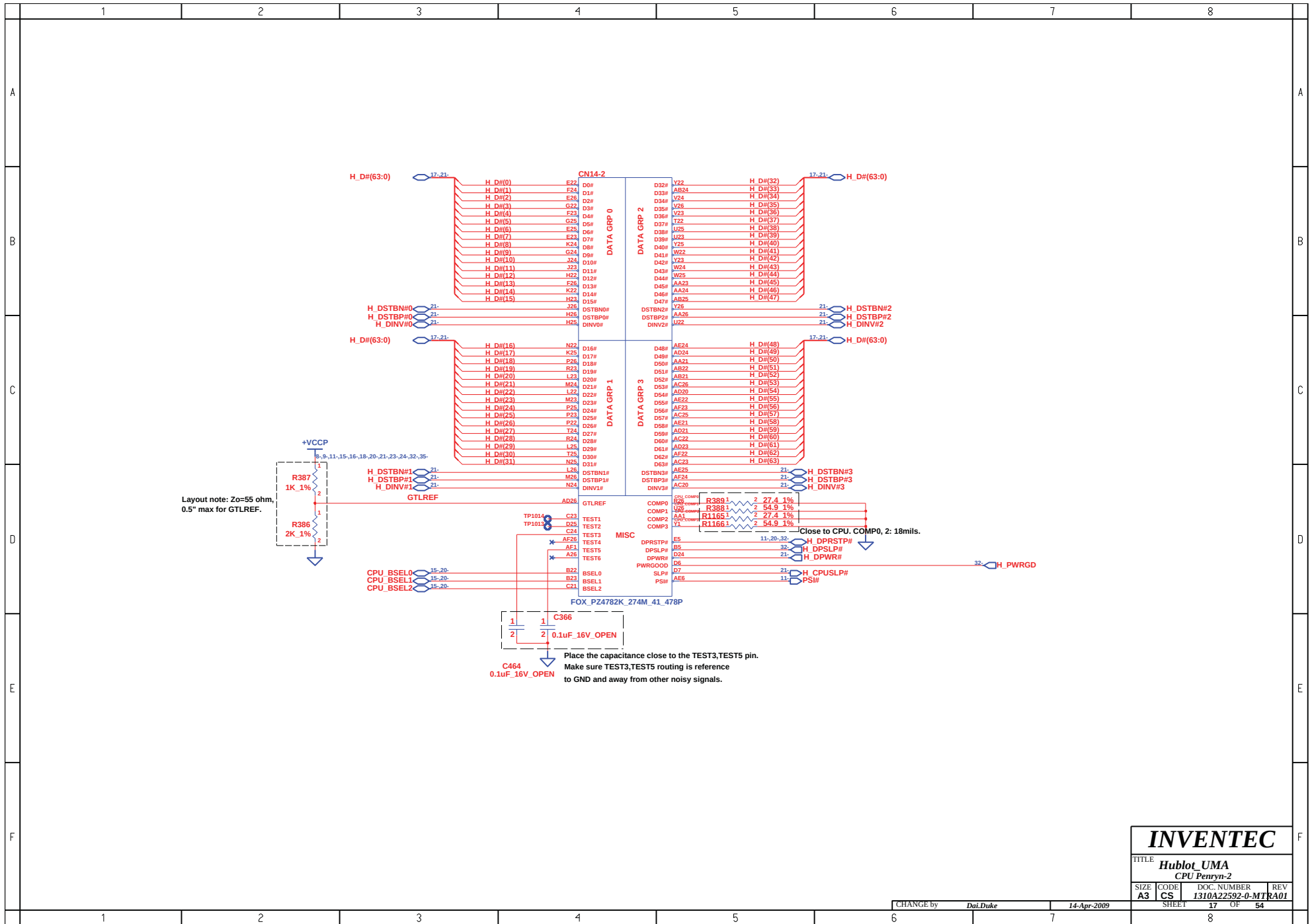




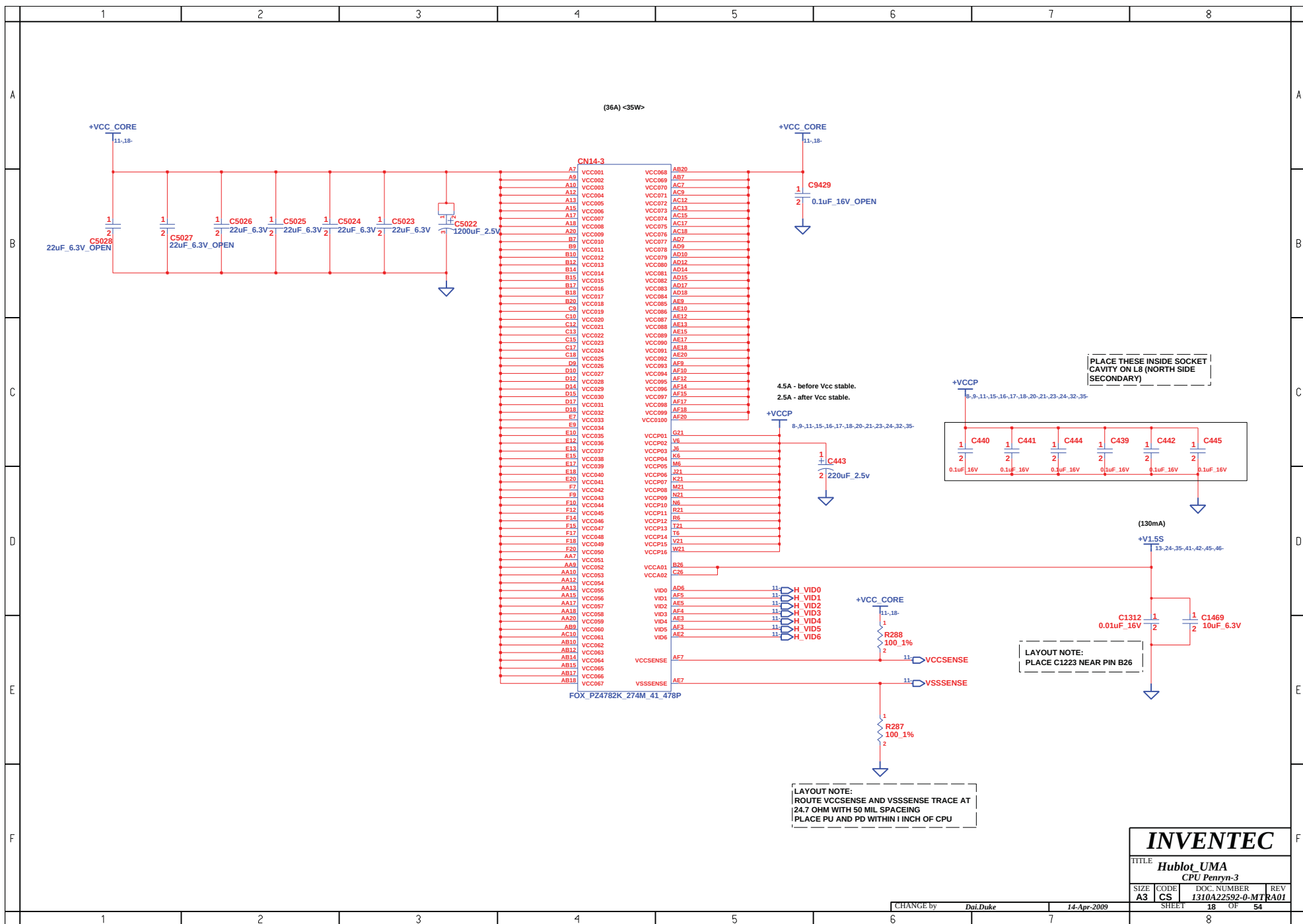




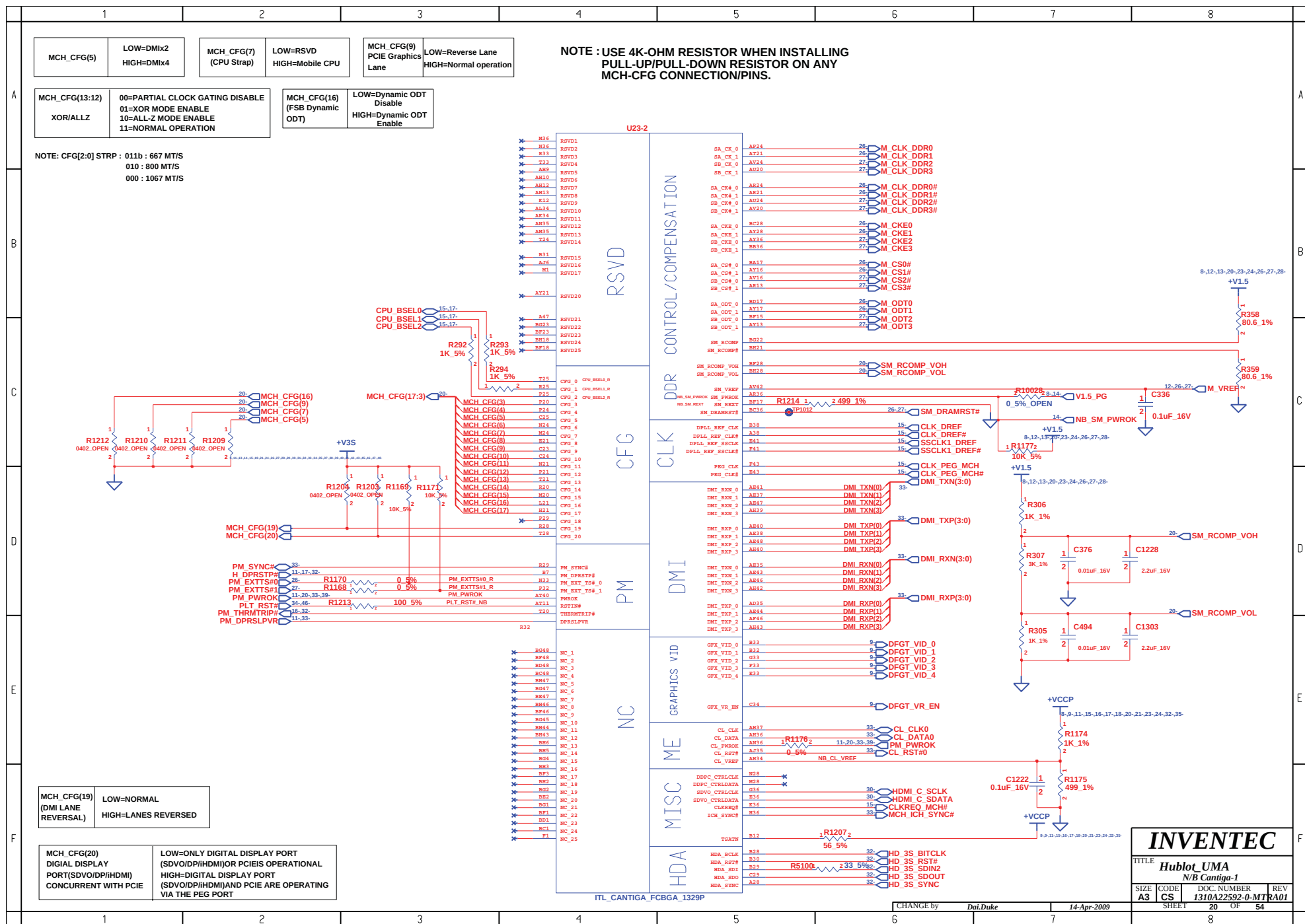


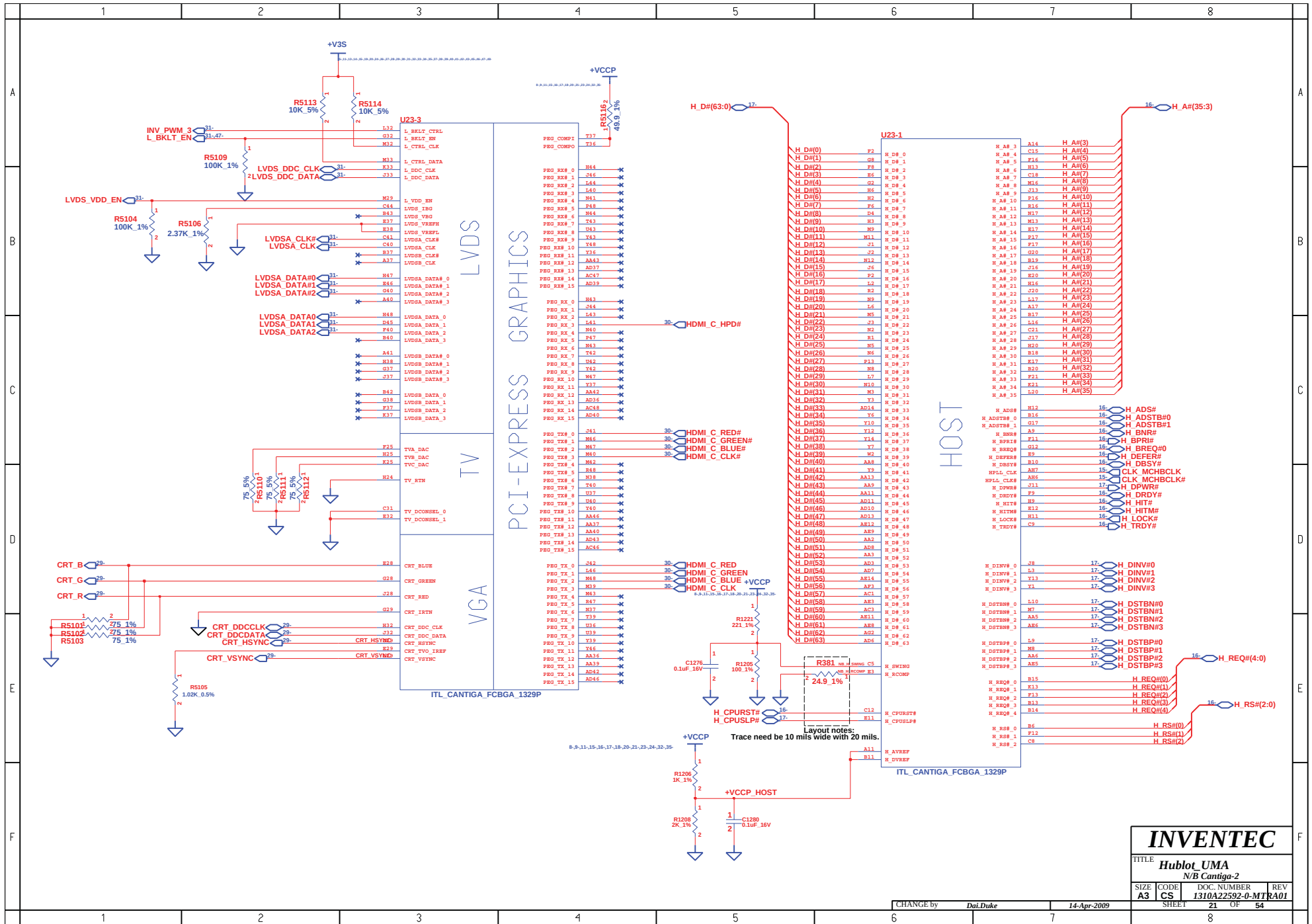


| INVENTEC     |      |                  |       |
|--------------|------|------------------|-------|
| TITLE        |      |                  |       |
| Hublot_UMA   |      |                  |       |
| CPU Penryn-2 |      |                  |       |
| SIZE         | CODE | DOC. NUMBER      | REV   |
| A3           | CS   | 1310A22592-0-MTR | A01   |
| SHEET        |      | 17               | OF 54 |





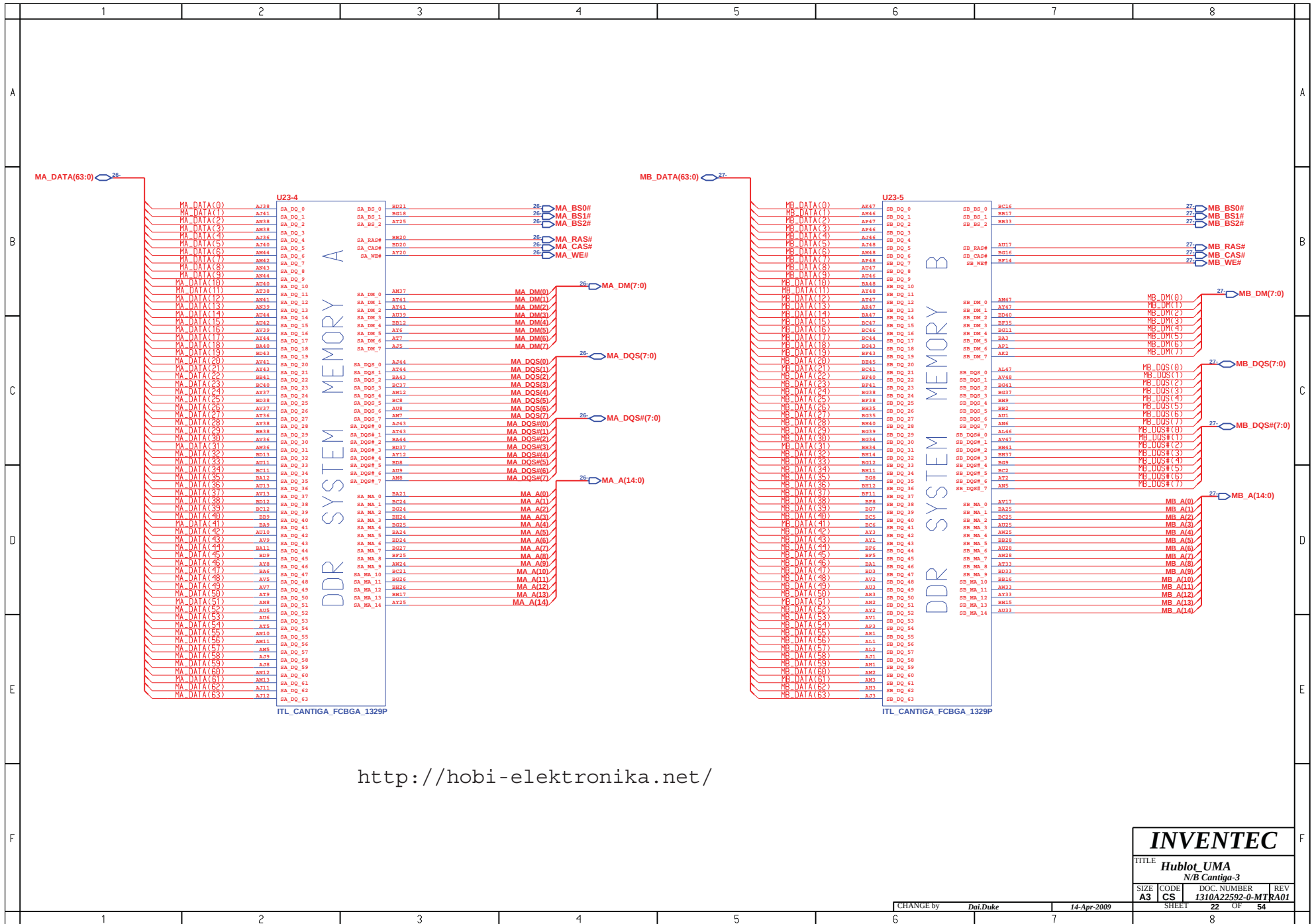


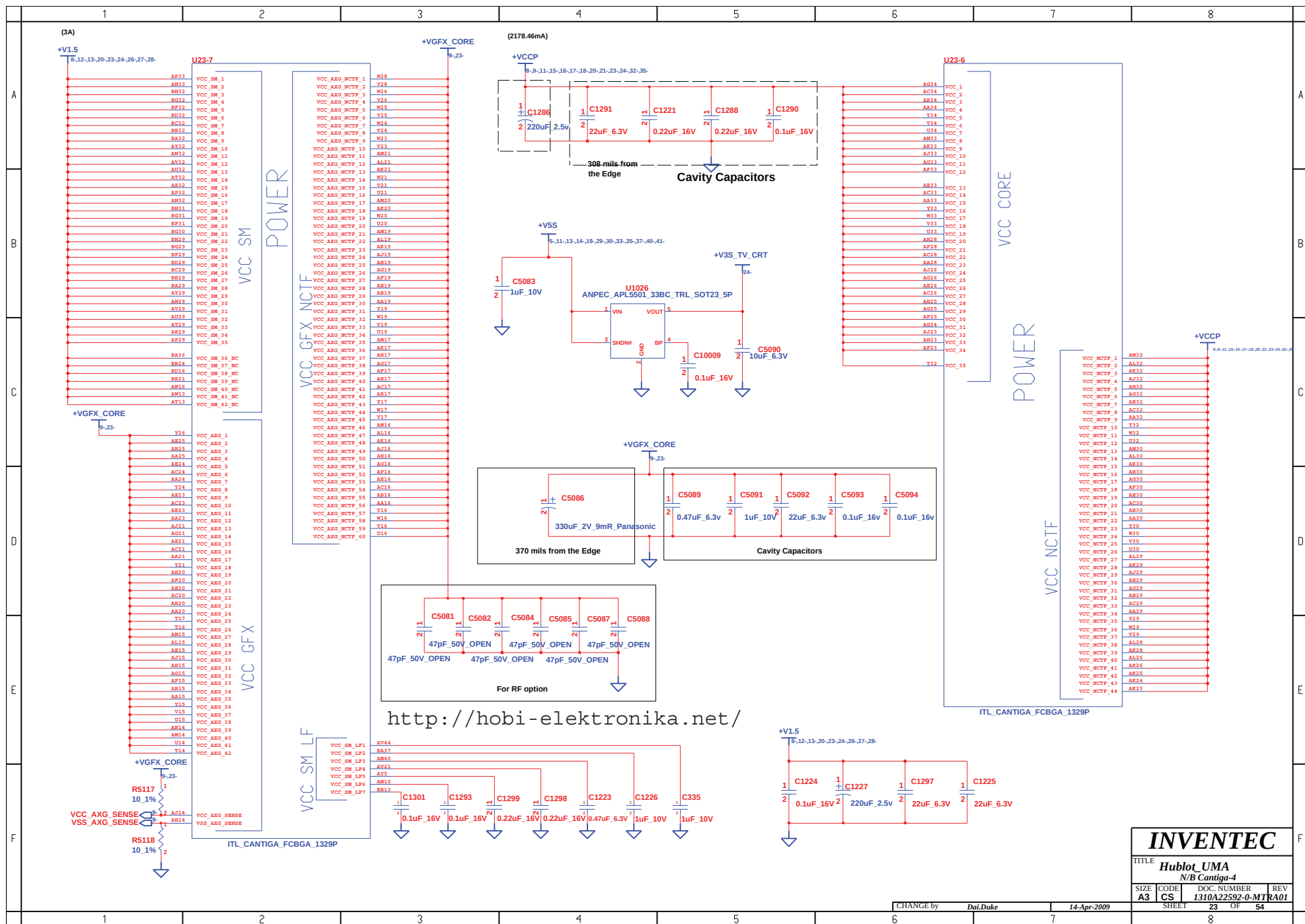


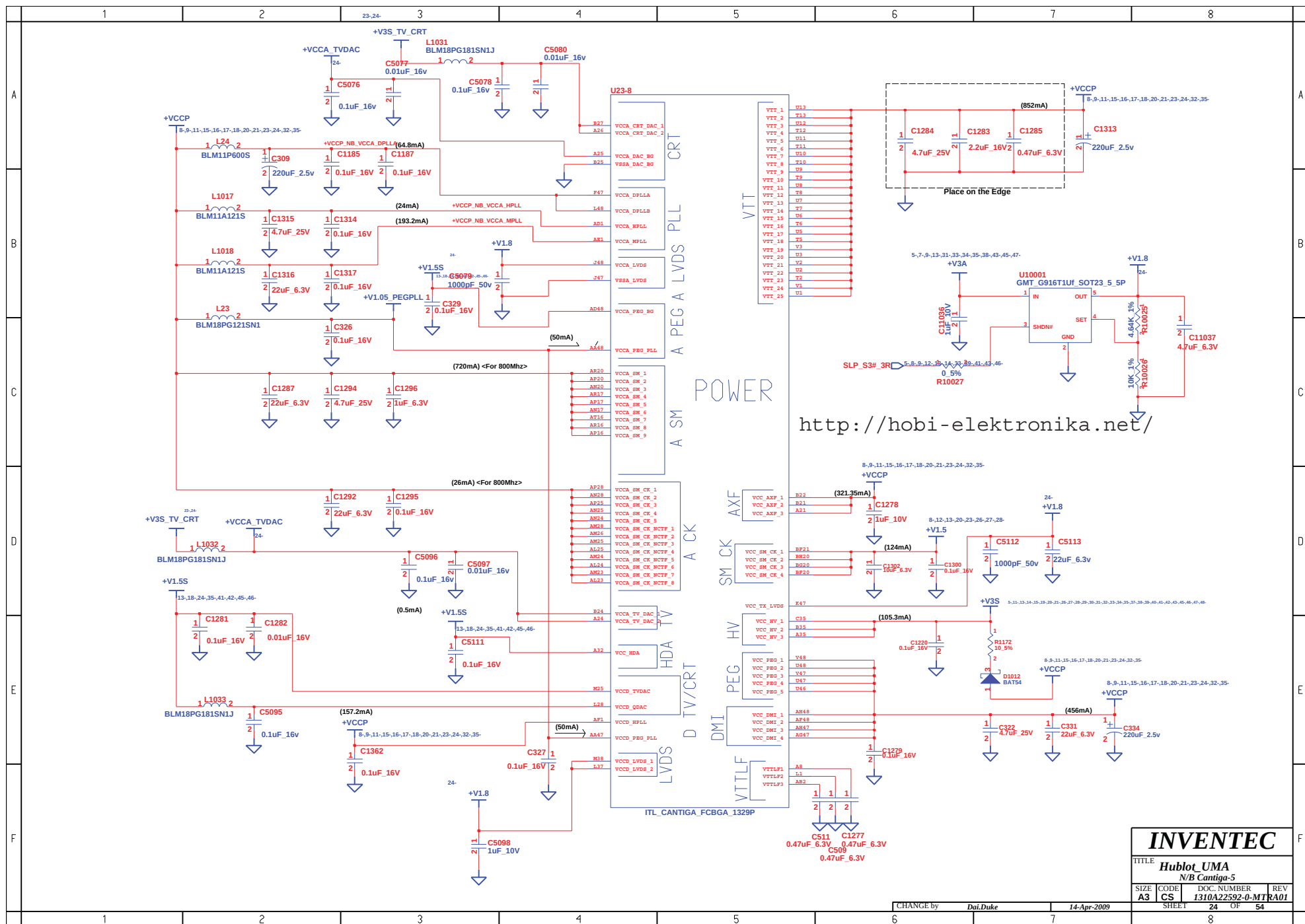
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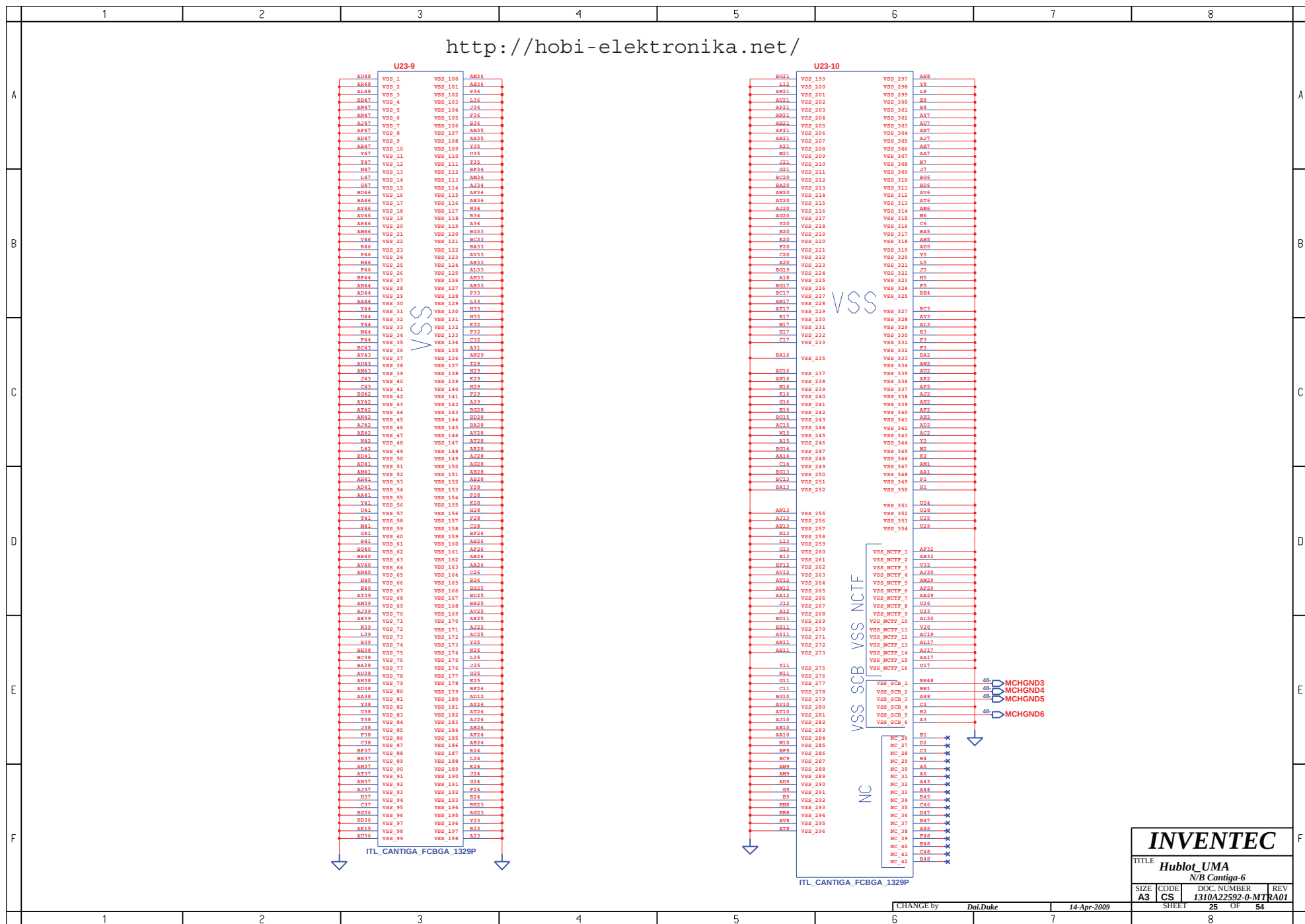
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| TITLE         |      |                  |       |
| Hublot_UMA    |      |                  |       |
| N/B Cantiga-2 |      |                  |       |
| SIZE          | CODE | DOC. NUMBER      | REV   |
| A3            | CS   | 1310A22592-0-MTR | A01   |
| SHEET         |      | 21               | OF 54 |

CHANGE by **DalDuke** 14-Apr-2009

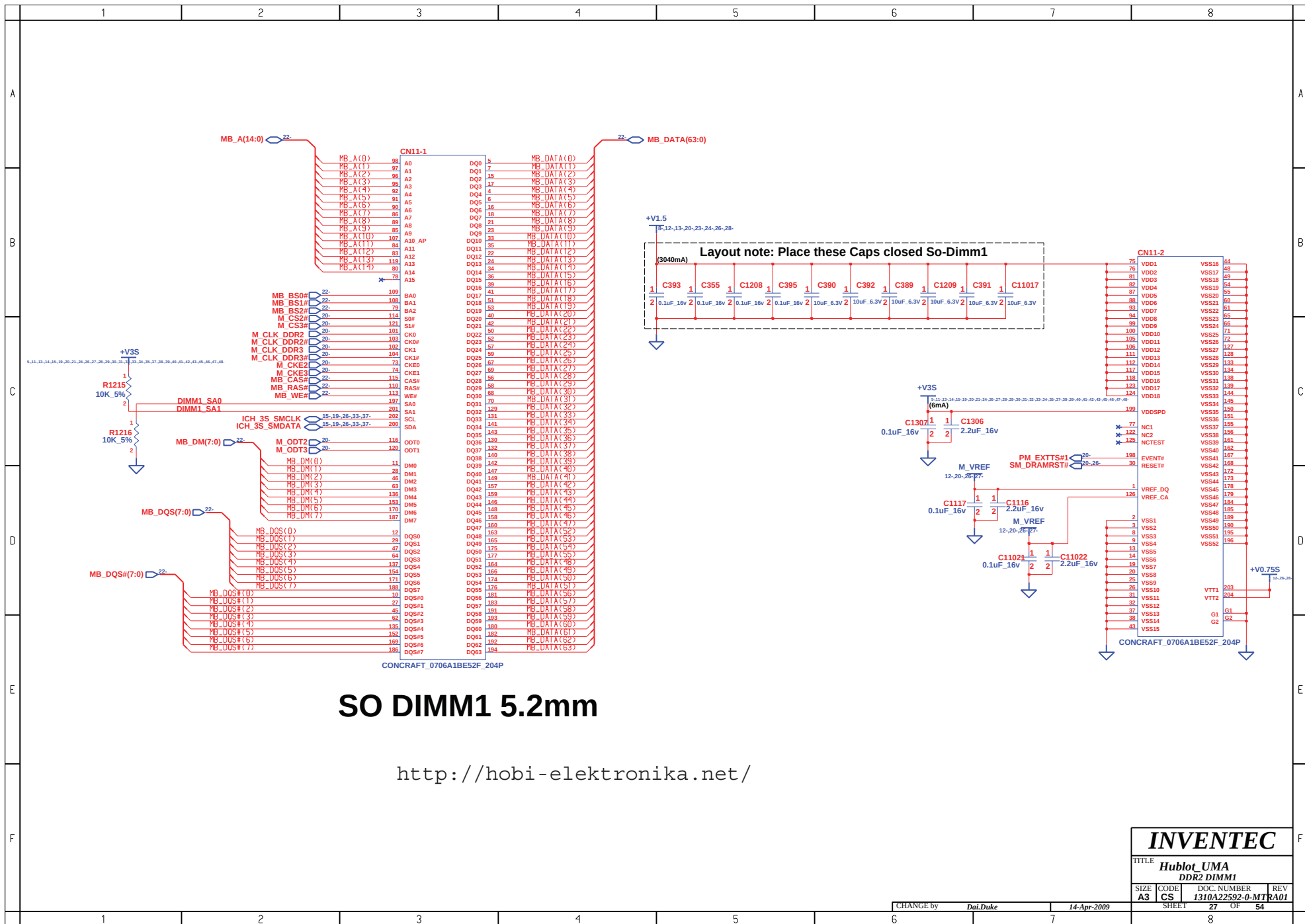


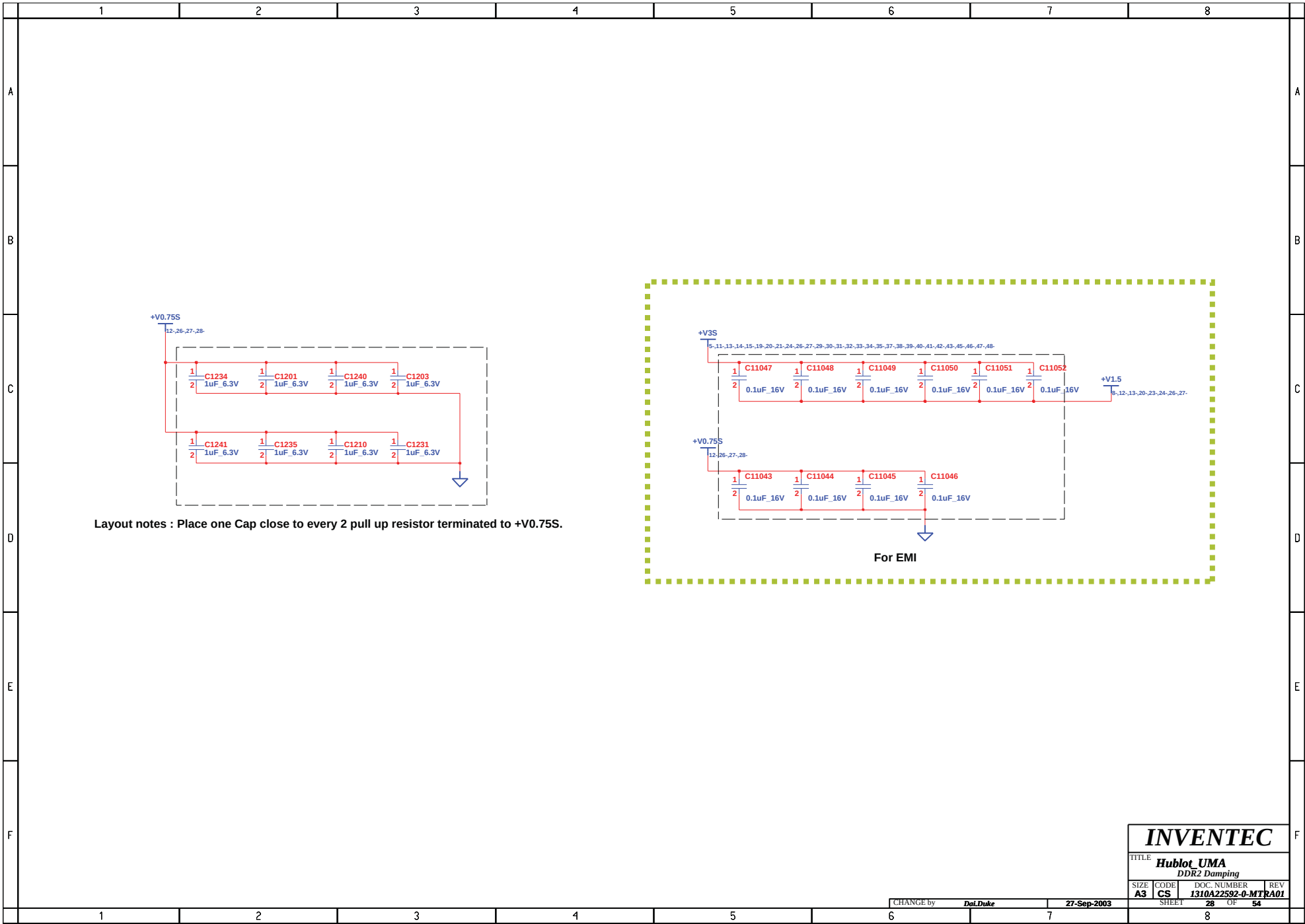










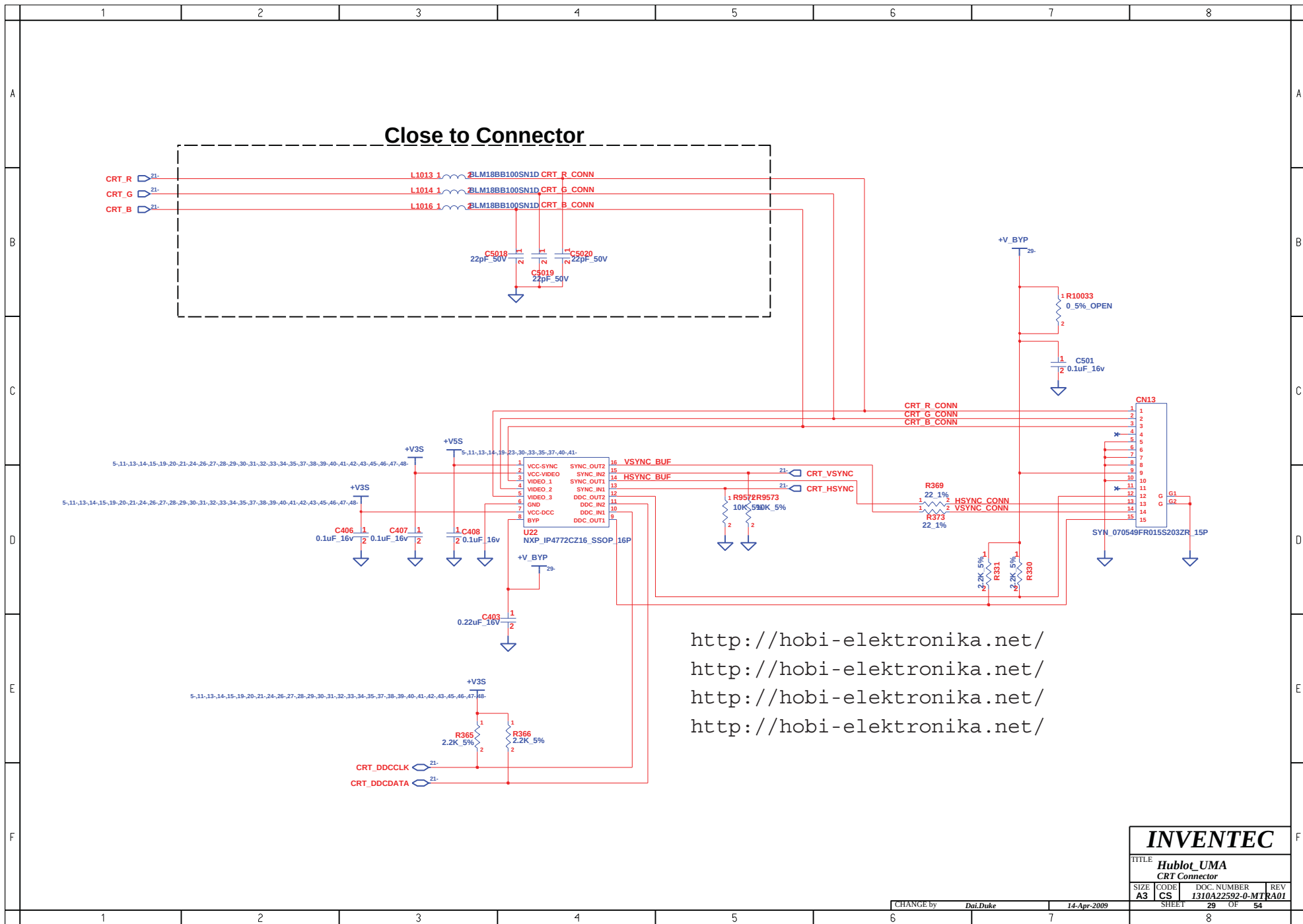


INVENTEC

TITLE  
**Hublot\_UMA**  
DDR2 Damping

|                    |                   |                                        |                   |
|--------------------|-------------------|----------------------------------------|-------------------|
| SIZE<br><b>A3</b>  | CODE<br><b>CS</b> | DOC. NUMBER<br><b>1310A22592-0-MTR</b> | REV<br><b>A01</b> |
| SHEET<br><b>28</b> |                   | OF<br><b>54</b>                        |                   |

CHANGE by **DuL Duke** 27-Sep-2003



<http://hobi-elektronika.net/>

**HDMI CONN**

**INVENTEC**

|                              |             |                    |             |
|------------------------------|-------------|--------------------|-------------|
| <b>TITLE</b>                 |             |                    |             |
| Hublot_UMA<br>HDMI Connector |             |                    |             |
| <b>SIZE</b>                  | <b>CODE</b> | <b>DOC. NUMBER</b> | <b>REV</b>  |
| A3                           | CS          | 1310A22592-0-MTR   | A01         |
| <b>SHEET</b>                 |             | <b>OF</b>          | <b>DATE</b> |
| 30                           |             | 54                 | 14-Apr-2009 |

CHANGE by: DalDuke

**HDMI CONN**

+V5S\_HDMI

R699 2.2K 5%

R700 2.2K 5%

R10034 0.5% OPEN

C3227 0.1uF 16V

HDMI\_TX2+ 30

HDMI\_TX2- 30

HDMI\_TX1+ 30

HDMI\_TX1- 30

HDMI\_TX0+ 30

HDMI\_TX0- 30

HDMI\_TXC+ 30

HDMI\_TXC- 30

HDMI\_I2\_CLK 30

HDMI\_I2\_DATA 30

HDMI\_HPD 30

1R5131z 1R5131K 5%

1R5132K 10K 5%

CN32

G1

G2

G3

G4

GND

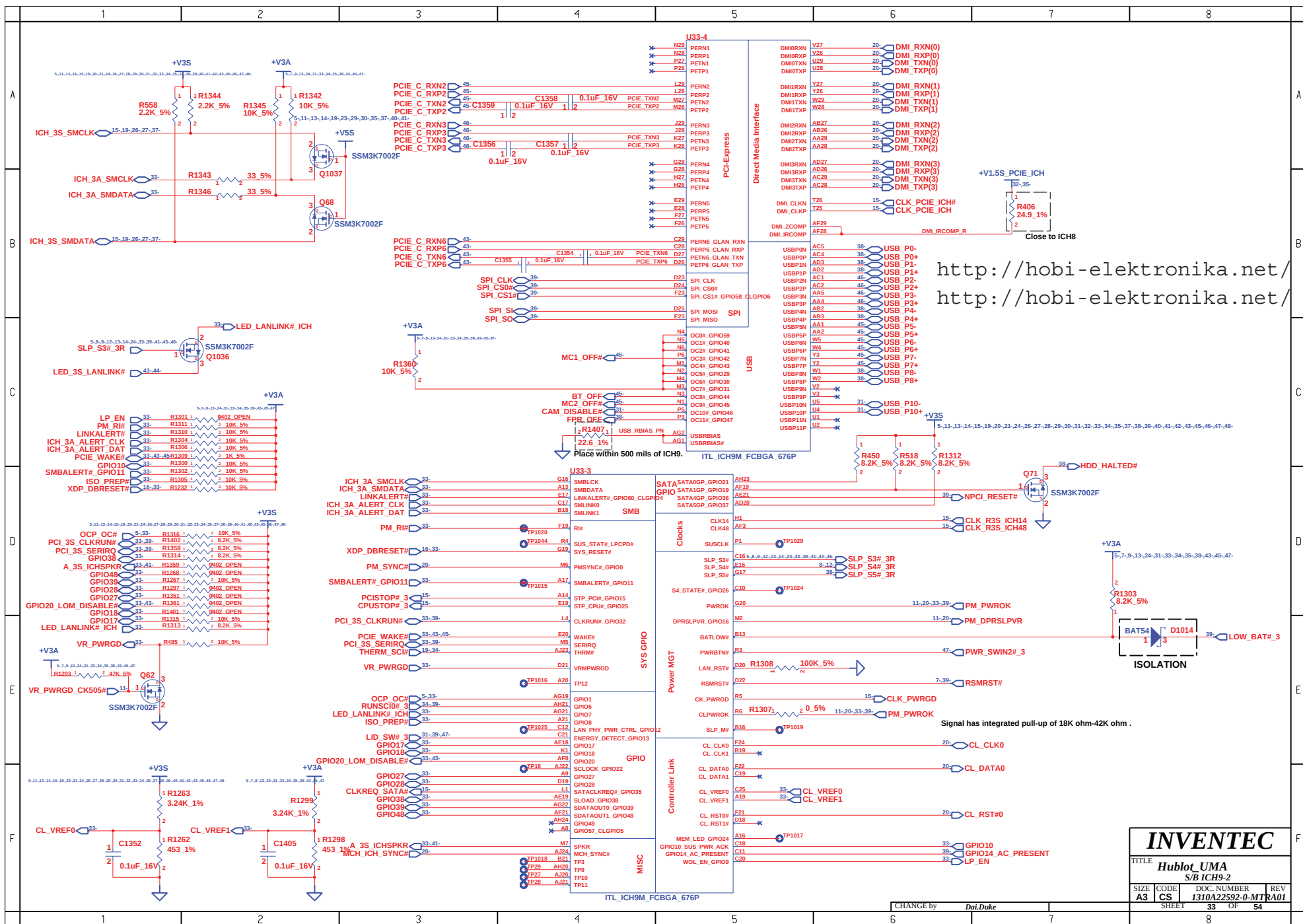
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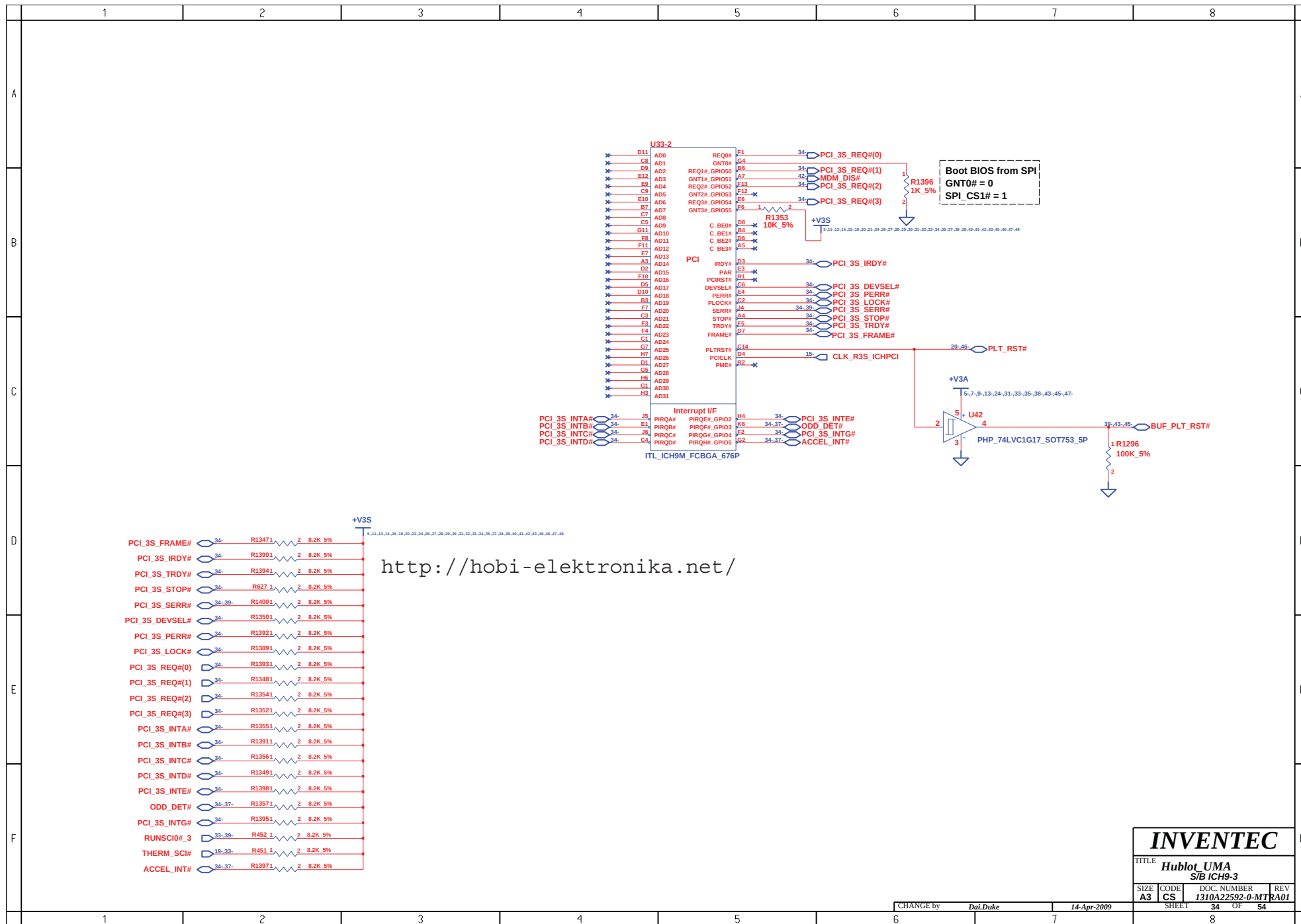
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|--------------------------------------------|-----------|-------------------------|------------|
| TITLE                                      |           |                         |            |
| <b>Hublot_UMA</b><br><b>HDMI Connector</b> |           |                         |            |
| SIZE                                       | CODE      | DOC. NUMBER             | REV        |
| <b>A3</b>                                  | <b>CS</b> | <b>1310A22592-0-MTR</b> | <b>A01</b> |

|       |                  |       |
|-------|------------------|-------|
| CS    | 1310A22592-U-M1R | A01   |
| SHEET | 30               | OF 54 |
| 8     |                  |       |



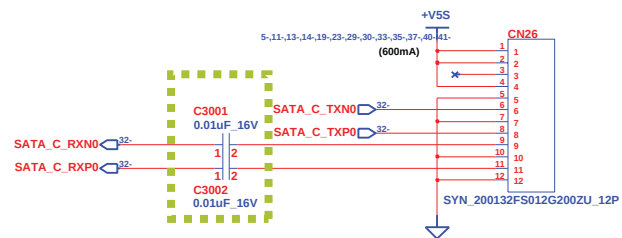




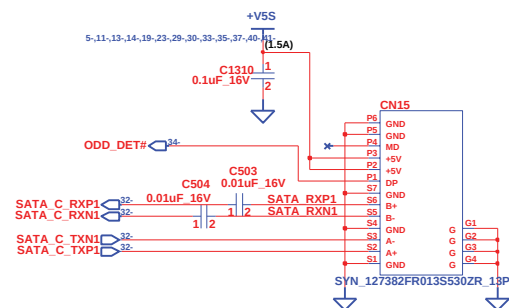




|   | 1 | 2 | 3 | 4                       | 5               | 6                  | 7           | 8                                                                         |   |
|---|---|---|---|-------------------------|-----------------|--------------------|-------------|---------------------------------------------------------------------------|---|
| A |   |   |   | U33-5                   |                 |                    |             |                                                                           | A |
|   |   |   |   | AA26 VSS001 VSS107 H5   |                 |                    |             |                                                                           |   |
|   |   |   |   | AA27 VSS002 VSS108 J23  |                 |                    |             |                                                                           |   |
|   |   |   |   | AA3 VSS003 VSS109 J26   |                 |                    |             |                                                                           |   |
|   |   |   |   | AA6 VSS004 VSS110 AC22  |                 |                    |             |                                                                           |   |
|   |   |   |   | AB1 VSS005 VSS111 K28   |                 |                    |             |                                                                           |   |
|   |   |   |   | AA23 VSS006 VSS112 K29  |                 |                    |             |                                                                           |   |
|   |   |   |   | AB28 VSS007 VSS113 L13  |                 |                    |             |                                                                           |   |
|   |   |   |   | AB29 VSS008 VSS114 L15  |                 |                    |             |                                                                           |   |
|   |   |   |   | AB4 VSS009 VSS115 L2    |                 |                    |             |                                                                           |   |
|   |   |   |   | AB5 VSS010 VSS117 L26   |                 |                    |             |                                                                           |   |
|   |   |   |   | AC17 VSS011 VSS118 L27  |                 |                    |             |                                                                           |   |
|   |   |   |   | AC26 VSS012 VSS119 L5   |                 |                    |             |                                                                           |   |
|   |   |   |   | AC37 VSS013 VSS120 L7   |                 |                    |             |                                                                           |   |
|   |   |   |   | AC3 VSS014 VSS121 M12   |                 |                    |             |                                                                           |   |
|   |   |   |   | AD1 VSS015 VSS122 M13   |                 |                    |             |                                                                           |   |
|   |   |   |   | AD10 VSS016 VSS122 M14  |                 |                    |             |                                                                           |   |
|   |   |   |   | AD12 VSS017 VSS123 M15  |                 |                    |             |                                                                           |   |
|   |   |   |   | AD13 VSS018 VSS125 M16  |                 |                    |             |                                                                           |   |
|   |   |   |   | AD14 VSS019 VSS126 M17  |                 |                    |             |                                                                           |   |
|   |   |   |   | AD17 VSS020 VSS127 M23  |                 |                    |             |                                                                           |   |
|   |   |   |   | AD18 VSS021 VSS128 M28  |                 |                    |             |                                                                           |   |
|   |   |   |   | AD21 VSS022 VSS129 M29  |                 |                    |             |                                                                           |   |
|   |   |   |   | AD28 VSS023 VSS130 N11  |                 |                    |             |                                                                           |   |
|   |   |   |   | AD29 VSS024 VSS131 N12  |                 |                    |             |                                                                           |   |
|   |   |   |   | AD4 VSS025 VSS132 N13   |                 |                    |             |                                                                           |   |
|   |   |   |   | AD6 VSS026 VSS133 N15   |                 |                    |             |                                                                           |   |
|   |   |   |   | AD9 VSS027 VSS134 N16   |                 |                    |             |                                                                           |   |
|   |   |   |   | AD7 VSS028 VSS136 N17   |                 |                    |             |                                                                           |   |
|   |   |   |   | AD9 VSS029 VSS137 N26   |                 |                    |             |                                                                           |   |
|   |   |   |   | AE12 VSS030 VSS138 N27  |                 |                    |             |                                                                           |   |
|   |   |   |   | AE13 VSS031 VSS140 P12  |                 |                    |             |                                                                           |   |
|   |   |   |   | AE14 VSS032 VSS141 P13  |                 |                    |             |                                                                           |   |
|   |   |   |   | AE16 VSS033 VSS142 P14  |                 |                    |             |                                                                           |   |
|   |   |   |   | AE17 VSS034 VSS143 P15  |                 |                    |             |                                                                           |   |
|   |   |   |   | AE21 VSS035 VSS144 P16  |                 |                    |             |                                                                           |   |
|   |   |   |   | AE20 VSS036 VSS146 P2   |                 |                    |             |                                                                           |   |
|   |   |   |   | AE24 VSS037 VSS147 P23  |                 |                    |             |                                                                           |   |
|   |   |   |   | AE3 VSS038 VSS148 P28   |                 |                    |             |                                                                           |   |
|   |   |   |   | AE4 VSS039 VSS149 P29   |                 |                    |             |                                                                           |   |
|   |   |   |   | AE6 VSS040 VSS150 P4    |                 |                    |             |                                                                           |   |
|   |   |   |   | AE9 VSS041 VSS151 P7    |                 |                    |             |                                                                           |   |
|   |   |   |   | AF13 VSS042 VSS152 R11  |                 |                    |             |                                                                           |   |
|   |   |   |   | AF16 VSS043 VSS153 R12  |                 |                    |             |                                                                           |   |
|   |   |   |   | AF18 VSS044 VSS153 R13  |                 |                    |             |                                                                           |   |
|   |   |   |   | AF22 VSS045 VSS156 R14  |                 |                    |             |                                                                           |   |
|   |   |   |   | AH26 VSS046 VSS156 R15  |                 |                    |             |                                                                           |   |
|   |   |   |   | AF26 VSS047 VSS157 R16  |                 |                    |             |                                                                           |   |
|   |   |   |   | AF27 VSS048 VSS157 R17  |                 |                    |             |                                                                           |   |
|   |   |   |   | AF5 VSS049 VSS159 R18   |                 |                    |             |                                                                           |   |
|   |   |   |   | AF7 VSS050 VSS160 R28   |                 |                    |             |                                                                           |   |
|   |   |   |   | AG13 VSS051 VSS161 T12  |                 |                    |             |                                                                           |   |
|   |   |   |   | AG16 VSS052 VSS162 T13  |                 |                    |             |                                                                           |   |
|   |   |   |   | AG18 VSS053 VSS163 T14  |                 |                    |             |                                                                           |   |
|   |   |   |   | AG20 VSS054 VSS164 T15  |                 |                    |             |                                                                           |   |
|   |   |   |   | AG23 VSS055 VSS166 T16  |                 |                    |             |                                                                           |   |
|   |   |   |   | AG3 VSS056 VSS167 T17   |                 |                    |             |                                                                           |   |
|   |   |   |   | AG6 VSS057 VSS167 T23   |                 |                    |             |                                                                           |   |
|   |   |   |   | AG9 VSS058 VSS168 U12   |                 |                    |             |                                                                           |   |
|   |   |   |   | AH12 VSS059 VSS170 U13  |                 |                    |             |                                                                           |   |
|   |   |   |   | AH14 VSS060 VSS171 U14  |                 |                    |             |                                                                           |   |
|   |   |   |   | AH17 VSS061 VSS172 U15  |                 |                    |             |                                                                           |   |
|   |   |   |   | AH10 VSS062 VSS173 U16  |                 |                    |             |                                                                           |   |
|   |   |   |   | AH2 VSS063 VSS174 U17   |                 |                    |             |                                                                           |   |
|   |   |   |   | AH22 VSS064 VSS175 AD23 |                 |                    |             |                                                                           |   |
|   |   |   |   | AH25 VSS065 VSS176 U26  |                 |                    |             |                                                                           |   |
|   |   |   |   | AH28 VSS066 VSS177 U27  |                 |                    |             |                                                                           |   |
|   |   |   |   | AH5 VSS067 VSS178 U3    |                 |                    |             |                                                                           |   |
|   |   |   |   | AH8 VSS068 VSS179 V1    |                 |                    |             |                                                                           |   |
|   |   |   |   | AJ12 VSS069 VSS179 V13  |                 |                    |             |                                                                           |   |
|   |   |   |   | AJ14 VSS070 VSS180 V15  |                 |                    |             |                                                                           |   |
|   |   |   |   | AJ17 VSS071 VSS182 V23  |                 |                    |             |                                                                           |   |
|   |   |   |   | AJ38 VSS072 VSS183 V28  |                 |                    |             |                                                                           |   |
|   |   |   |   | B11 VSS073 VSS184 V4    |                 |                    |             |                                                                           |   |
|   |   |   |   | B14 VSS074 VSS186 V5    |                 |                    |             |                                                                           |   |
|   |   |   |   | B17 VSS075 VSS187 W23   |                 |                    |             |                                                                           |   |
|   |   |   |   | B2 VSS076 VSS188 W27    |                 |                    |             |                                                                           |   |
|   |   |   |   | B2 VSS077 VSS189 W3     |                 |                    |             |                                                                           |   |
|   |   |   |   | B20 VSS078 VSS190 V1    |                 |                    |             |                                                                           |   |
|   |   |   |   | B23 VSS079 VSS191 V28   |                 |                    |             |                                                                           |   |
|   |   |   |   | B5 VSS080 VSS192 V29    |                 |                    |             |                                                                           |   |
|   |   |   |   | B8 VSS081 VSS193 Y4     |                 |                    |             |                                                                           |   |
|   |   |   |   | C26 VSS082 VSS194 Y5    |                 |                    |             |                                                                           |   |
|   |   |   |   | C27 VSS083 VSS195 AG28  |                 |                    |             |                                                                           |   |
|   |   |   |   | E11 VSS084 VSS196 AH6   |                 |                    |             |                                                                           |   |
|   |   |   |   | E14 VSS085 VSS197 AF2   |                 |                    |             |                                                                           |   |
|   |   |   |   | E18 VSS086 VSS198 B25   |                 |                    |             |                                                                           |   |
|   |   |   |   | E2 VSS087 VSS199        |                 |                    |             |                                                                           |   |
|   |   |   |   | E21 VSS088              |                 |                    |             |                                                                           |   |
|   |   |   |   | E24 VSS089              |                 |                    |             |                                                                           |   |
|   |   |   |   | E5 VSS090               |                 |                    |             |                                                                           |   |
|   |   |   |   | E8 VSS091               |                 |                    |             |                                                                           |   |
|   |   |   |   | F18 VSS092              |                 |                    |             |                                                                           |   |
|   |   |   |   | F29 VSS093              |                 |                    |             |                                                                           |   |
|   |   |   |   | F29 VSS094              | VSS_NCTF1 A1    | 4B ICHGND1         |             |                                                                           |   |
|   |   |   |   | G12 VSS095              | VSS_NCTF2 A2    |                    |             |                                                                           |   |
|   |   |   |   | G14 VSS096              | VSS_NCTF3 A28   |                    |             |                                                                           |   |
|   |   |   |   | G18 VSS097              | VSS_NCTF4 A29   | 4B ICHGND4         |             |                                                                           |   |
|   |   |   |   | G21 VSS098              | VSS_NCTF5 AH1   |                    |             |                                                                           |   |
|   |   |   |   | G24 VSS099              | VSS_NCTF6 AH29  |                    |             |                                                                           |   |
|   |   |   |   | G26 VSS100              | VSS_NCTF7 A31   | 4B ICHGND7         |             |                                                                           |   |
|   |   |   |   | G27 VSS101              | VSS_NCTF8 A32   |                    |             |                                                                           |   |
|   |   |   |   | G8 VSS102               | VSS_NCTF9 A328  |                    |             |                                                                           |   |
|   |   |   |   | H2 VSS103               | VSS_NCTF10 A329 | 4B ICHGND10        |             |                                                                           |   |
|   |   |   |   | H23 VSS104              | VSS_NCTF11 B1   |                    |             |                                                                           |   |
|   |   |   |   | H28 VSS105              | VSS_NCTF12 B29  |                    |             |                                                                           |   |
|   |   |   |   | H29 VSS106              |                 |                    |             |                                                                           |   |
|   |   |   |   | ITL_ICH9M_FCBGA_676P    |                 |                    |             |                                                                           |   |
| F |   |   |   |                         |                 |                    |             |                                                                           | F |
|   | 1 | 2 | 3 | 4                       | 5               | 6                  | 7           | 8                                                                         |   |
|   |   |   |   |                         |                 | CHANGE by Dal.Duke | 14-Apr-2009 |                                                                           |   |
|   |   |   |   |                         |                 |                    |             | SIZE CODE DOC. NUMBER REV<br>A3 CS 1310A22592-0-MTR A01<br>SHEET 36 OF 54 |   |

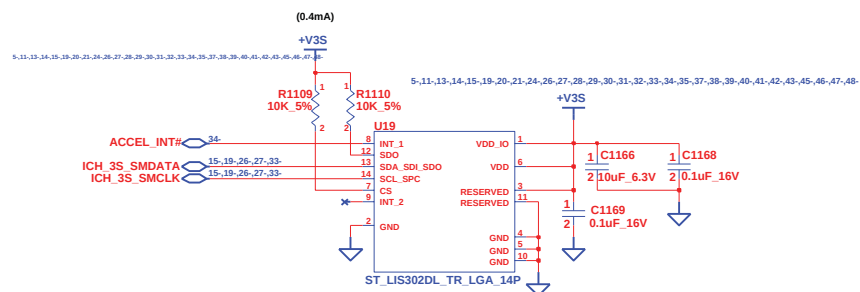


SATA HDD



SATA ODD

<http://hobi-elektronika.net/>  
<http://hobi-elektronika.net/>

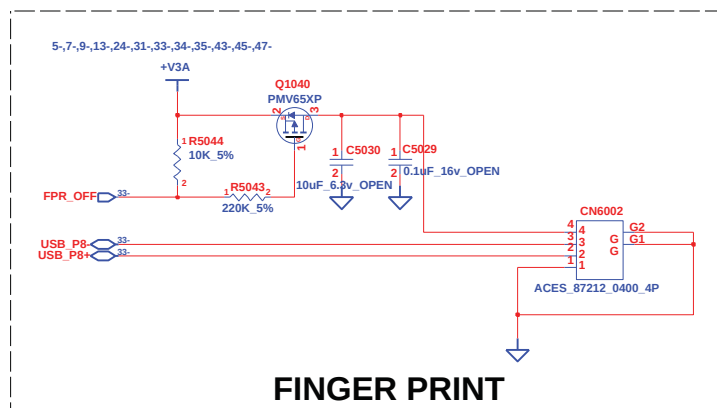
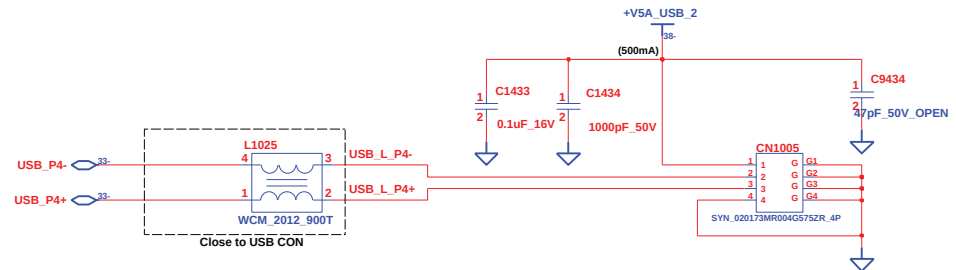
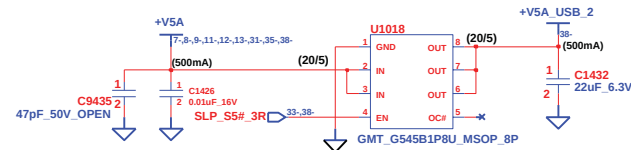
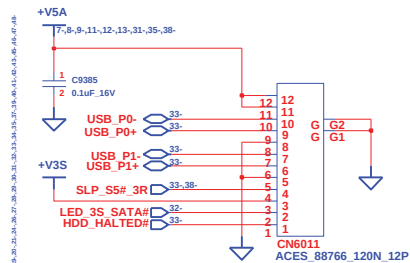


Accelerometer

| INVENTEC                       |      |                  |     |
|--------------------------------|------|------------------|-----|
| TITLE                          |      |                  |     |
| Hublot_UMA                     |      |                  |     |
| HDD & ODD CONN & Accelerometer |      |                  |     |
| SIZE                           | CODE | DOC. NUMBER      | REV |
| A3                             | CS   | 1310A22592-0-MTR | A01 |
| SHEET                          |      | OF               | 54  |
| 37                             |      |                  |     |

CHANGE by *Du.Duke* 14-Apr-2009

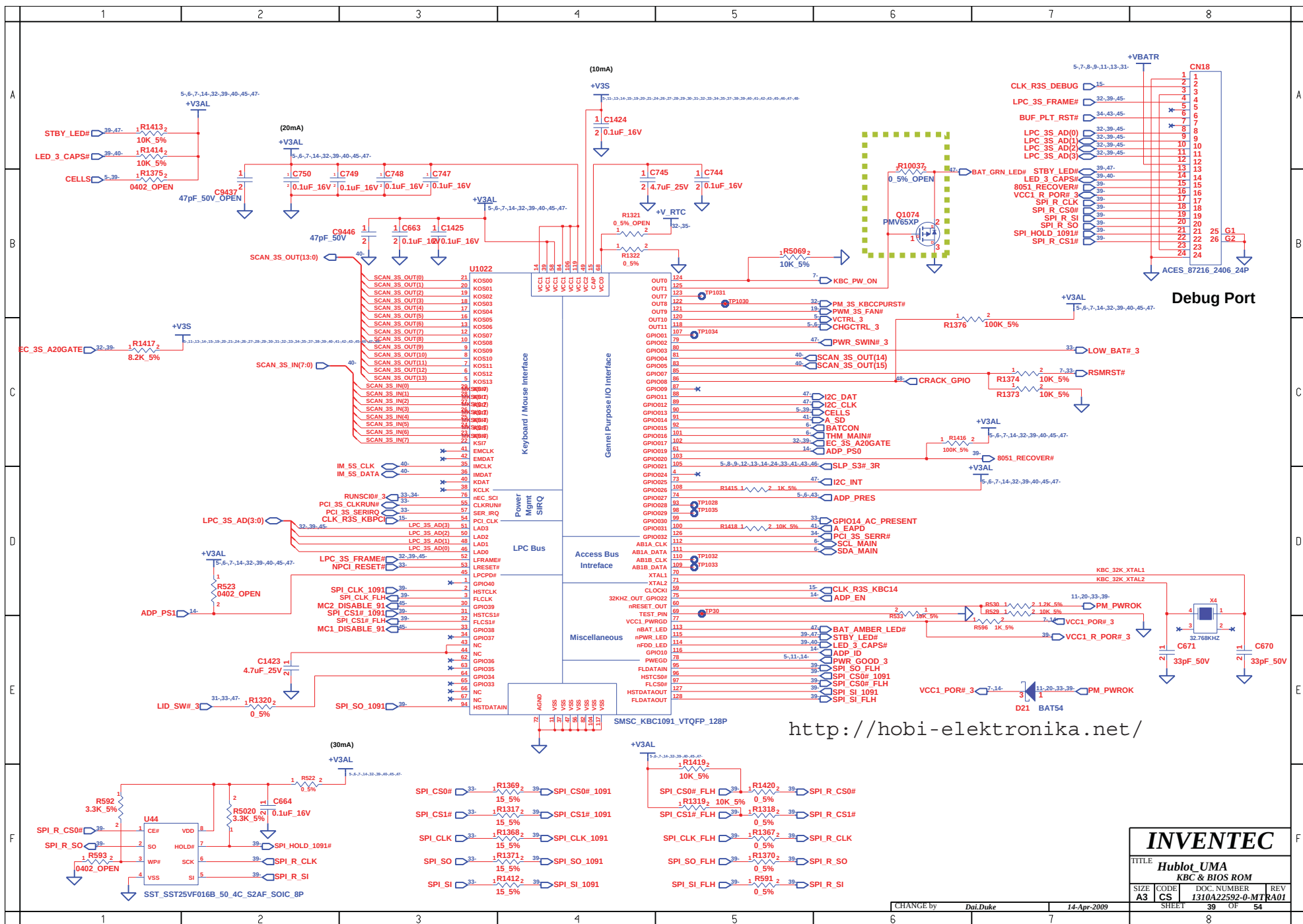
## MB Side

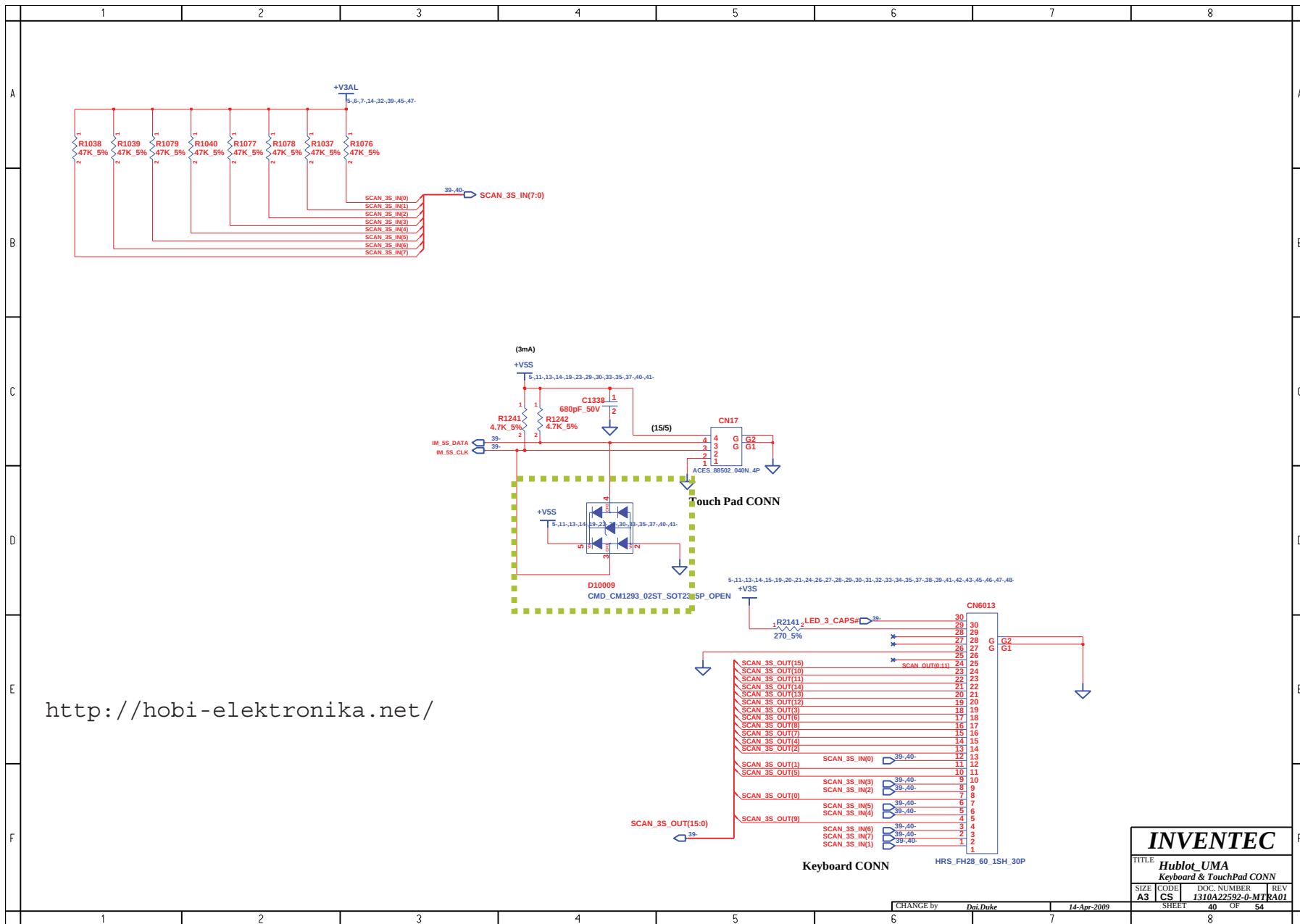


## FINGER PRINT

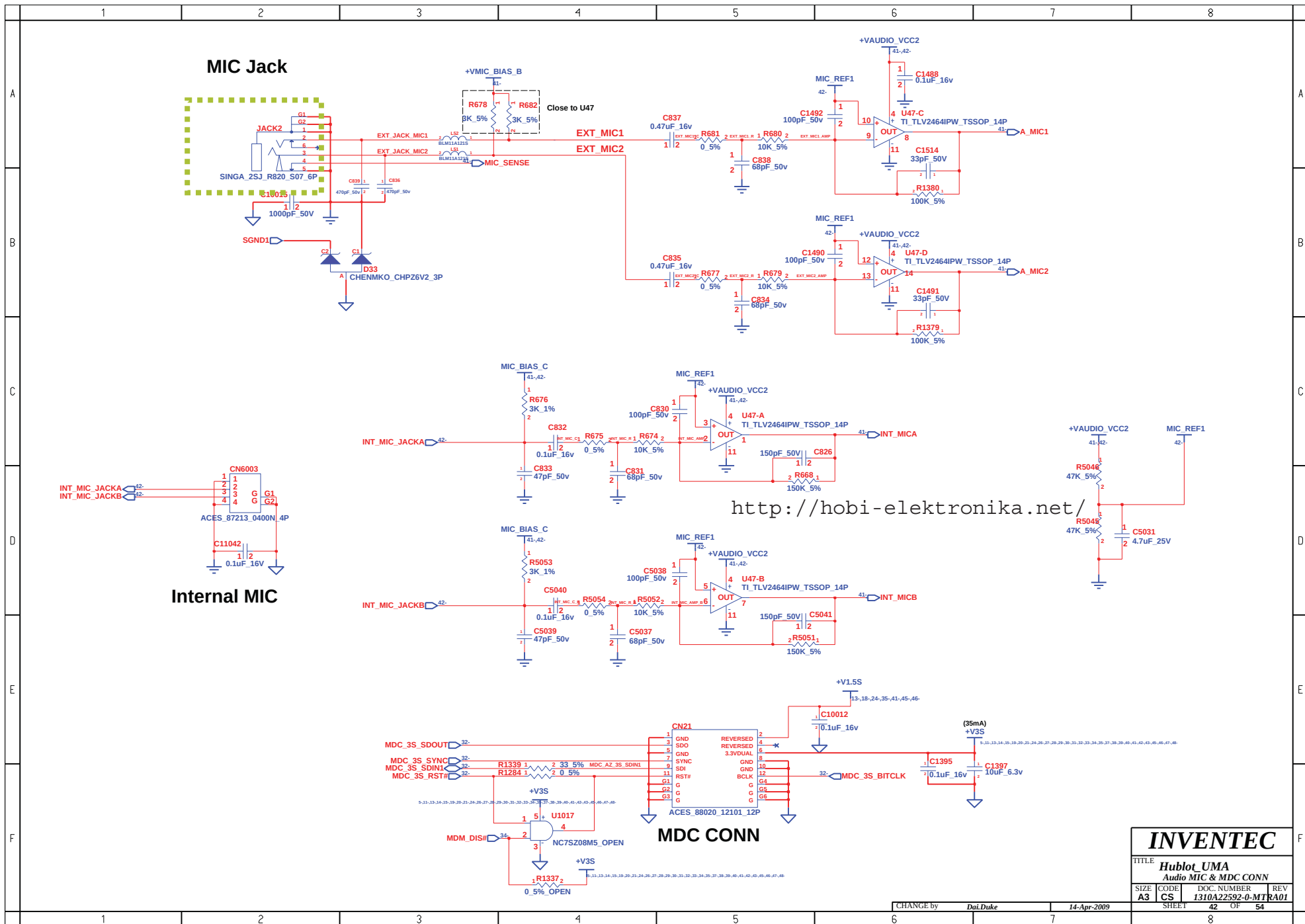
| INVENTEC   |      |                  |       |
|------------|------|------------------|-------|
| TITLE      |      |                  |       |
| Hublot_UMA |      |                  |       |
| USB CONN   |      |                  |       |
| SIZE       | CODE | DOC. NUMBER      | REV   |
| A3         | CS   | 1310A22592-0-MTR | A01   |
| SHEET      |      | 38               | OF 54 |

CHANGE by *Du.Duke* 14-Apr-2009

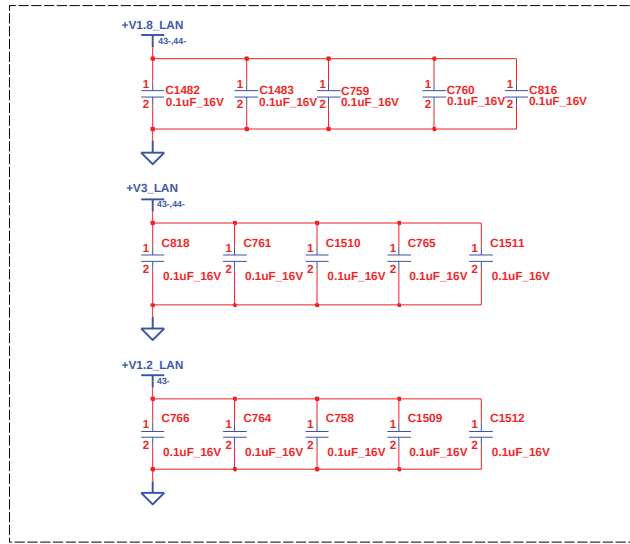




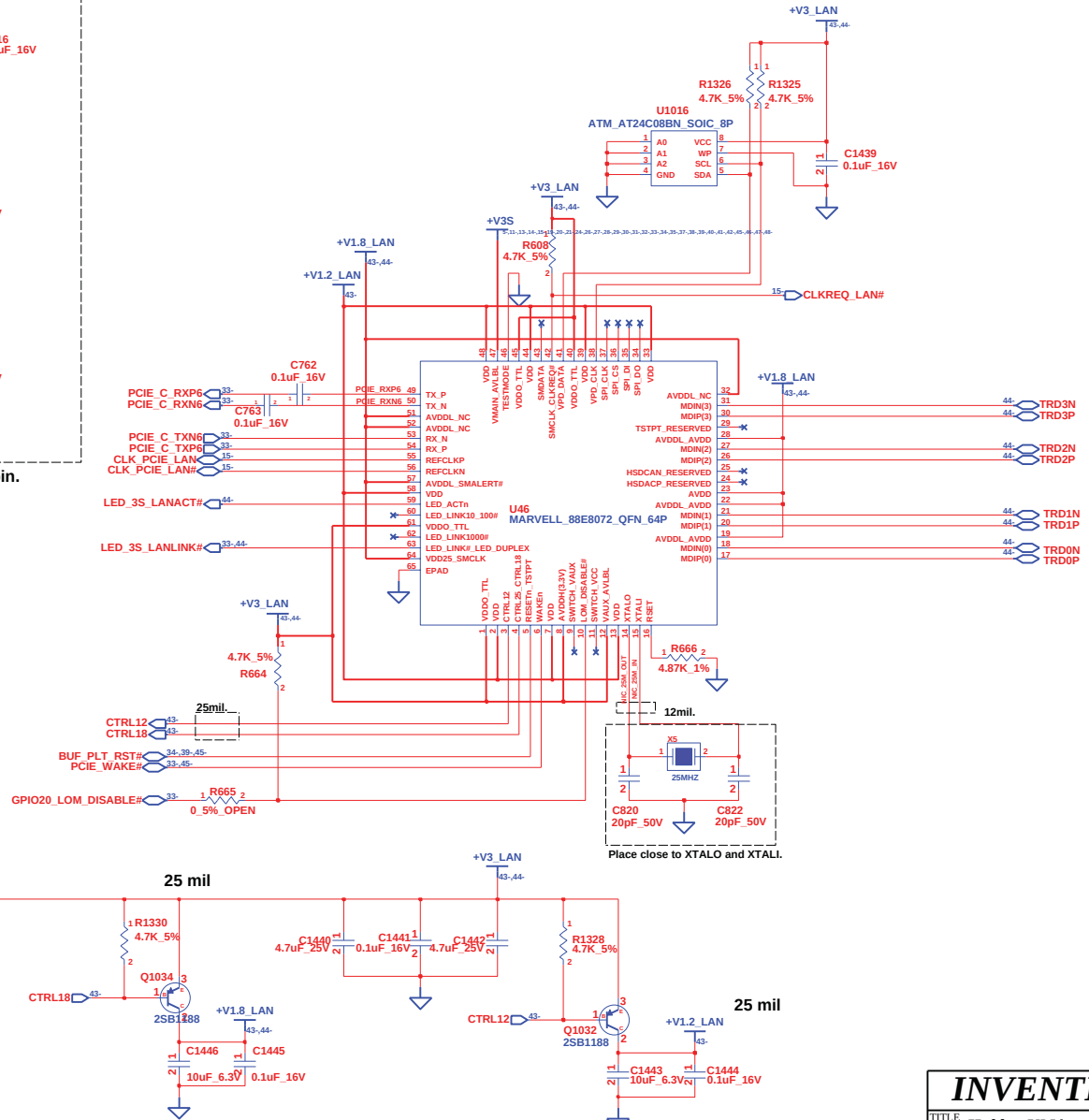




<http://hobi-elektronika.net/>



Place bypass cap as close as possible with every power pin.



Place close to XTALO and XTAL1.

**INVENTEC**

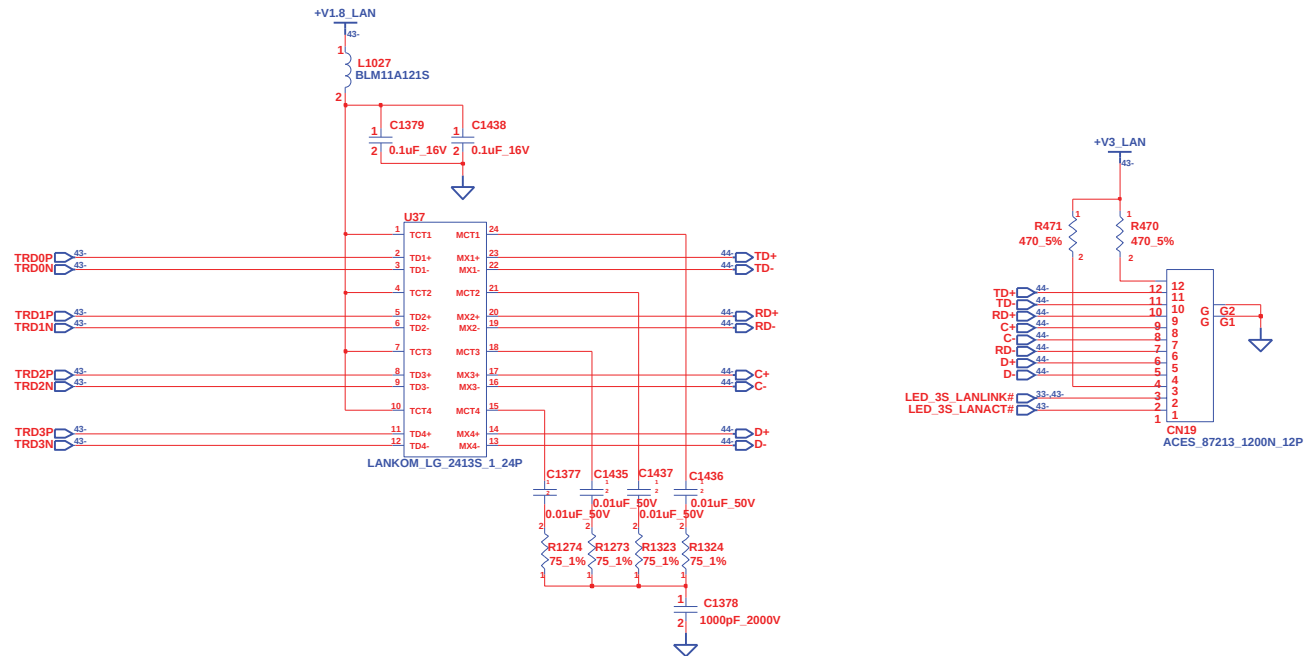
TITLE  
Hublot\_UMA  
Giga LAN Controller

|            |            |                                 |            |
|------------|------------|---------------------------------|------------|
| SIZE<br>A3 | CODE<br>CS | DOC. NUMBER<br>1310A22592-0-MTR | REV<br>A01 |
|------------|------------|---------------------------------|------------|

CHANGE by *Du.Duke* 14-Apr-2009

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<http://hobi-elektronika.net/>



**INVENTEC**

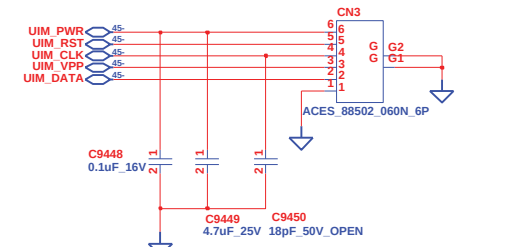
TITLE  
**Hublot\_UMA  
Magnetic & RJ45 CONN**

| SIZE | CODE | DOC. NUMBER      | REV  |
|------|------|------------------|------|
| A3   | CS   | 1310A22592-0-MTR | RA01 |

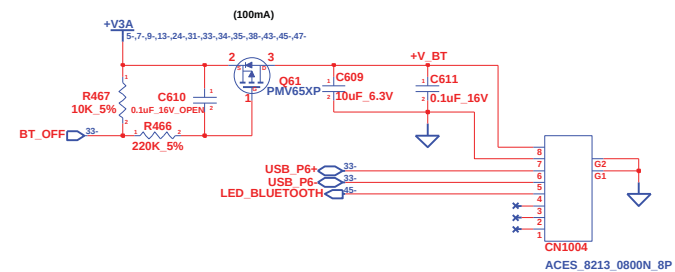
CHANGE by *Du.Duke* 14-Apr-2009

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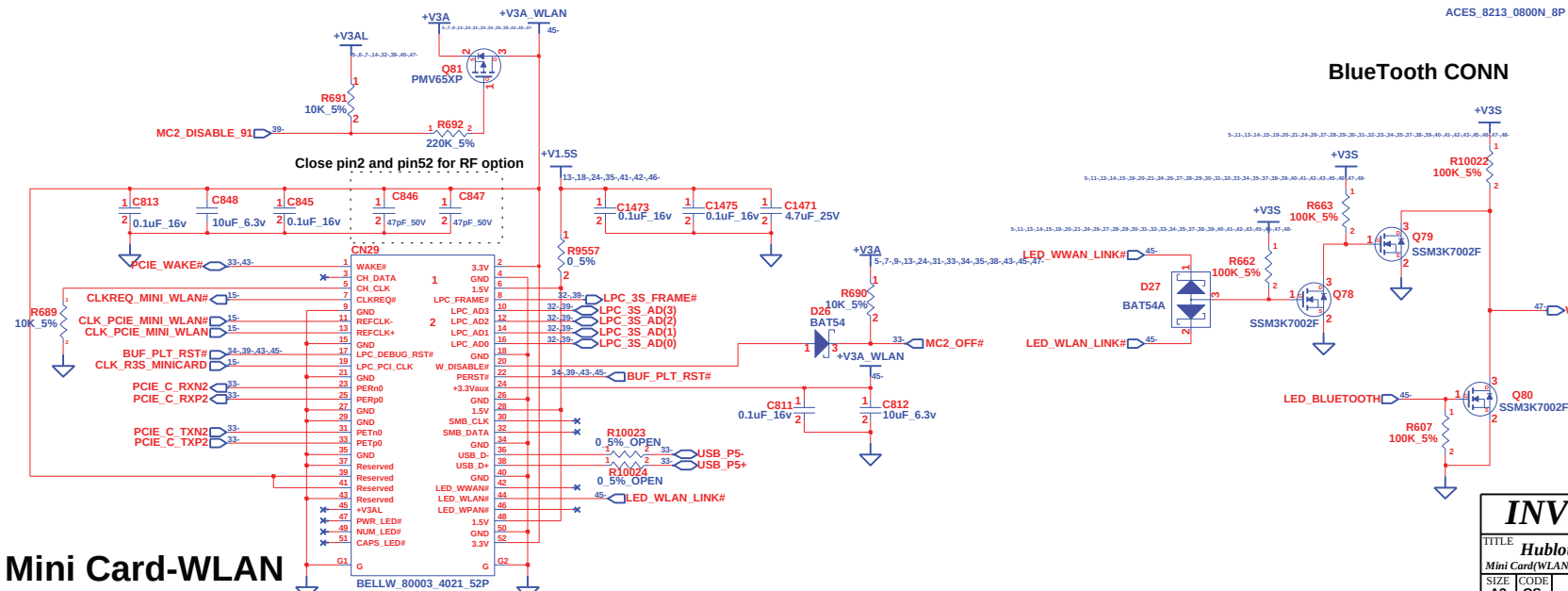
<http://hobi-elektronika.net/>



### SIM Card Connector

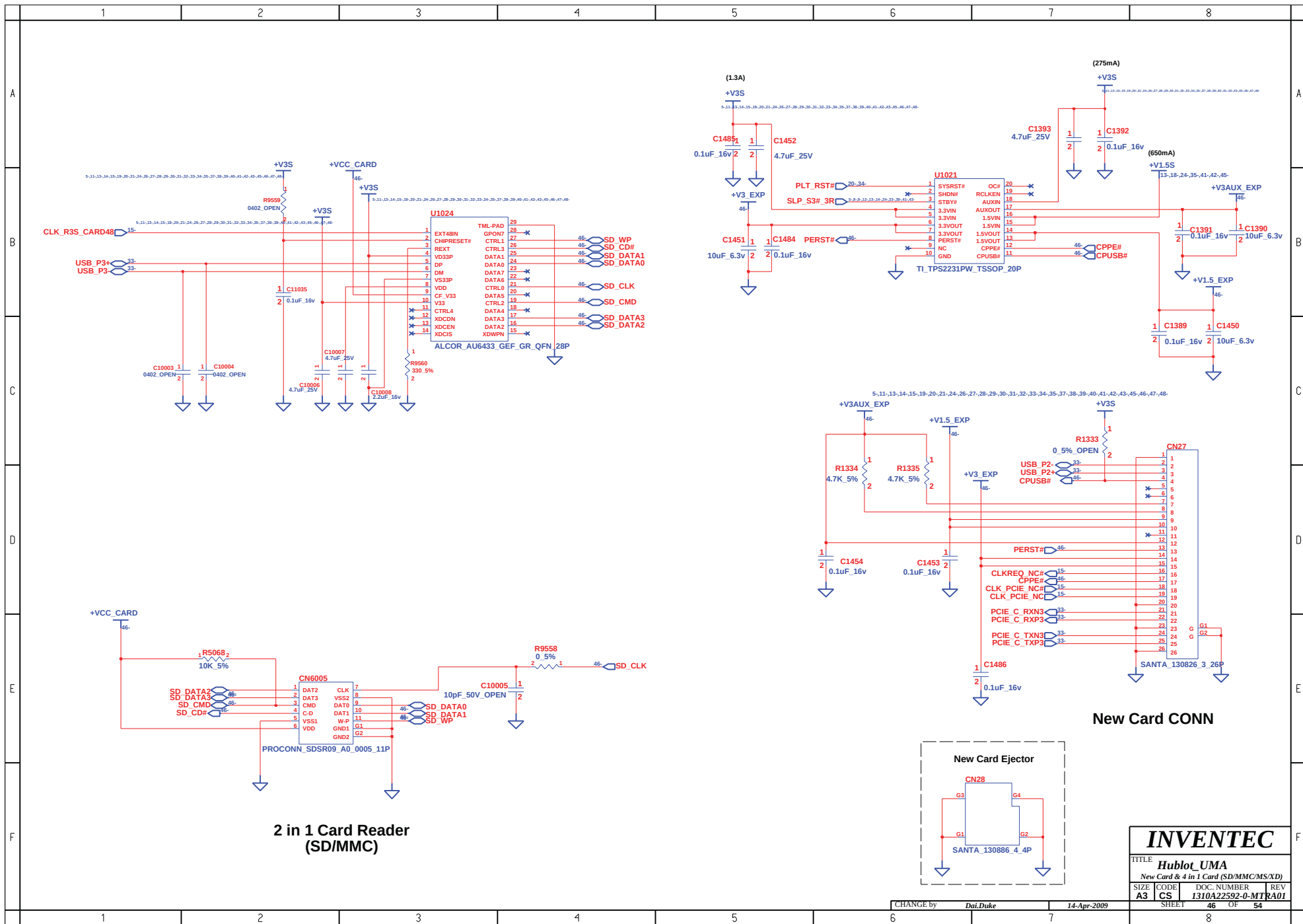


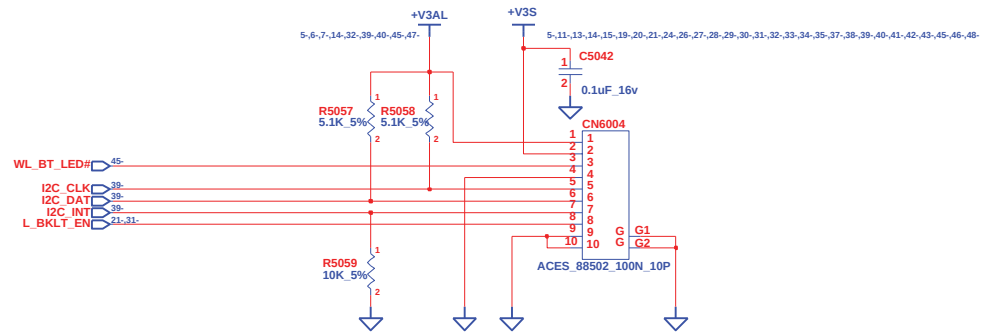
## BlueTooth CONN



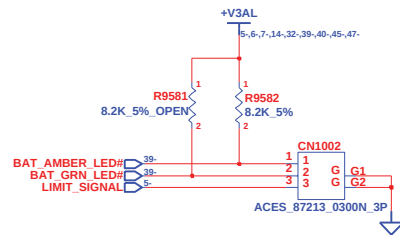
## Mini Card-WLAN

|                                                    |           |                        |             |
|----------------------------------------------------|-----------|------------------------|-------------|
| <b>INVENTEC</b>                                    |           |                        |             |
| TITLE <b><i>Hublot_UMA</i></b>                     |           |                        |             |
| <b><i>Mini Card(WLAN/Robson/BT/UWB/Web-CAM</i></b> |           |                        |             |
| SIZE                                               | CODE      | DOC. NUMBER            | REV         |
| <b>A3</b>                                          | <b>CS</b> | <b>1310A2252-0-MTR</b> | <b>RA01</b> |
| SHEET                                              |           | 45                     | OF 54       |



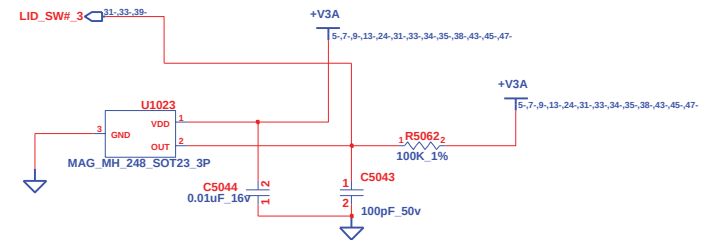
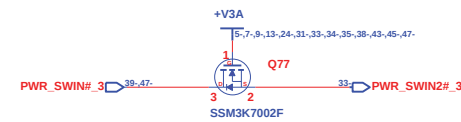
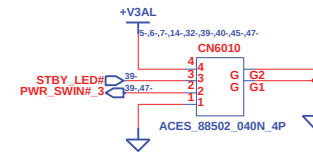


**SWITCH BOARD CONN**



**Battery-Charge LED CONN**

**Power SW CONN**

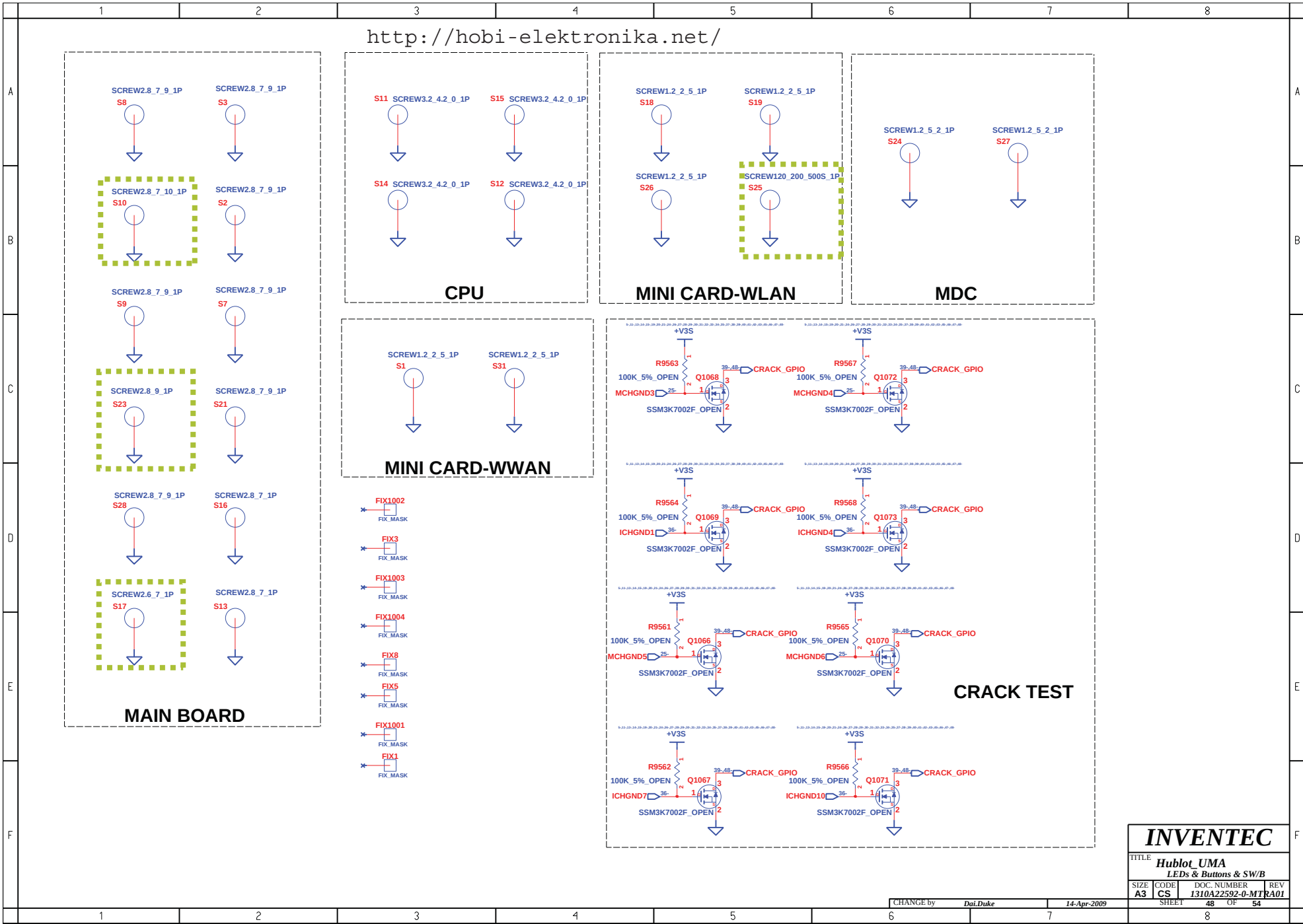


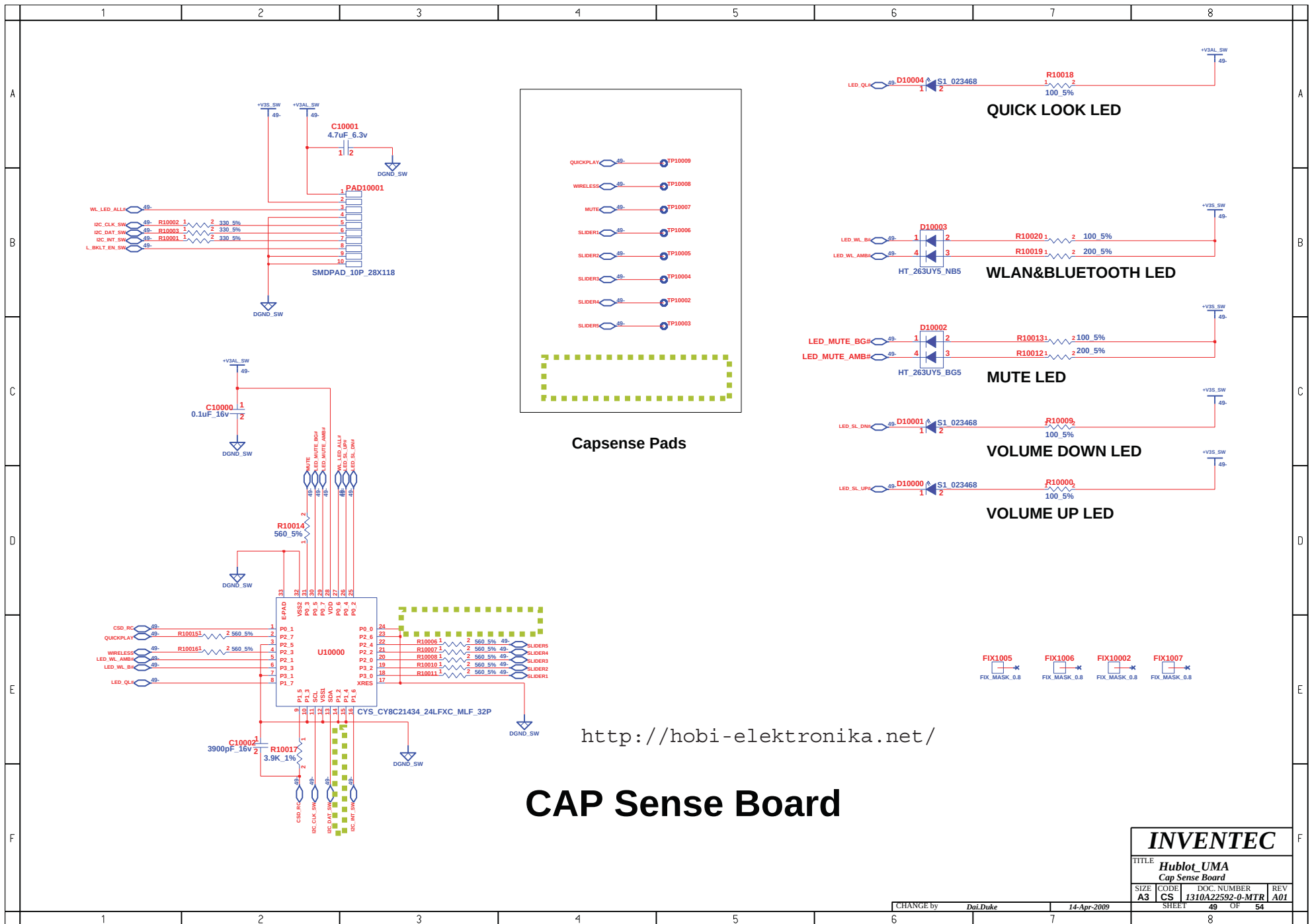
**LID SWITCH**

<http://hobi-elektronika.net/>

| INVENTEC              |      |                  |       |
|-----------------------|------|------------------|-------|
| TITLE                 |      |                  |       |
| Hublot_UMA            |      |                  |       |
| LEDs & Buttons & SW/B |      |                  |       |
| SIZE                  | CODE | DOC. NUMBER      | REV   |
| A3                    | CS   | 1310A22592-0-MTR | A01   |
| SHEET                 |      | 47               | OF 54 |

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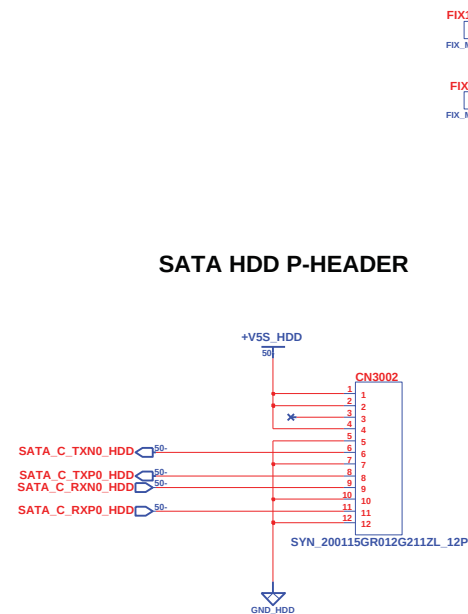
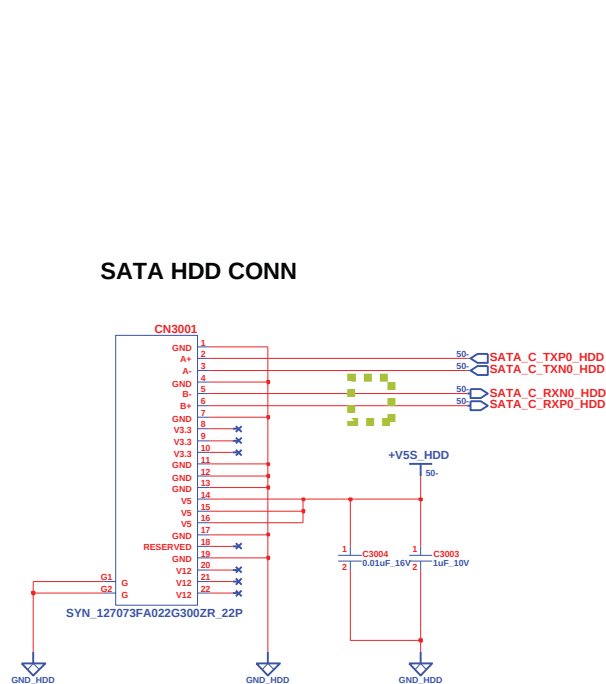


<http://hobi-elektronika.net/>

# CAP Sense Board

| INVENTEC        |      |                  |     |
|-----------------|------|------------------|-----|
| TITLE           |      |                  |     |
| Hublot_UMA      |      |                  |     |
| Cap Sense Board |      |                  |     |
| SIZE            | CODE | DOC. NUMBER      | REV |
| A3              | CS   | 1310A22592-0-MTR | A01 |
| SHEET           |      | OF               | 54  |

CHANGE by *DuL Duke* 14-Apr-2009



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# SATA HDD Extend Board

| INVENTEC                                     |            |                                 |            |
|----------------------------------------------|------------|---------------------------------|------------|
| TITLE<br>Hublot_UMA<br>SATA HDD Extend Board |            |                                 |            |
| SIZE<br>A3                                   | CODE<br>CS | DOC. NUMBER<br>1310A22592-0-MTR | REV<br>A01 |
| CHANGE by<br>Dul.Duke                        |            | 20-Apr-2009                     |            |
| SHEET                                        |            | 50 OF 54                        |            |

## Layout notes :

1. Placed R4004 close to U4002
2. Place D4002 close to R4004
3. D4001 & D4002 pin3 to FP\_GND should be a short trace(20mil max) using three via to connect to FP\_GND

# FINGER PRINT READER DAUGHTER BOARD

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**INVENTEC**

|                                           |      |                  |          |
|-------------------------------------------|------|------------------|----------|
| TITLE                                     |      |                  |          |
| Hublot_UMA<br>Finger Print Daughter Board |      |                  |          |
| SIZE                                      | CODE | DOC. NUMBER      | REV      |
| A3                                        | CS   | 1310A22592-0-MTR | A01      |
| CHANGE by                                 |      | DATE             | SHEET    |
| Dul.Duke                                  |      | 14-Apr-2009      | 51 OF 54 |



|                                                              |           |                         |            |
|--------------------------------------------------------------|-----------|-------------------------|------------|
| TITLE                                                        |           |                         |            |
| <b><i>Hublot_UMA</i></b><br><b><i>USB Daughter Board</i></b> |           |                         |            |
| SIZE                                                         | CODE      | DOC. NUMBER             | REV        |
| <b>A3</b>                                                    | <b>CS</b> | <b>1310A22592-0-MTR</b> | <b>A01</b> |
| SHEET                                                        |           | 52                      | OF 54      |

