

DDD UMA

SI Build(Final)

2007.03.30

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| | | |
| DATE | CHANGE NO. | REV |

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| DRAWER | EE | DATE | POWER | DATE | INVENTEC | | |
| DESIGN | | | | | TITLE | | |
| CHECK | | | | | DDD UMA | | |
| RESPONSIBLE | | | | | | | |
| SIZE = 3 | | | | | SIZE | CODE | DOC. NUMBER |
| FILE NAME : XXXX-XXXXXX-XX | | | | | A3 | CS | Model No |
| P/N XXXXXXXXXXXXX | | | | | REV AXI | | |
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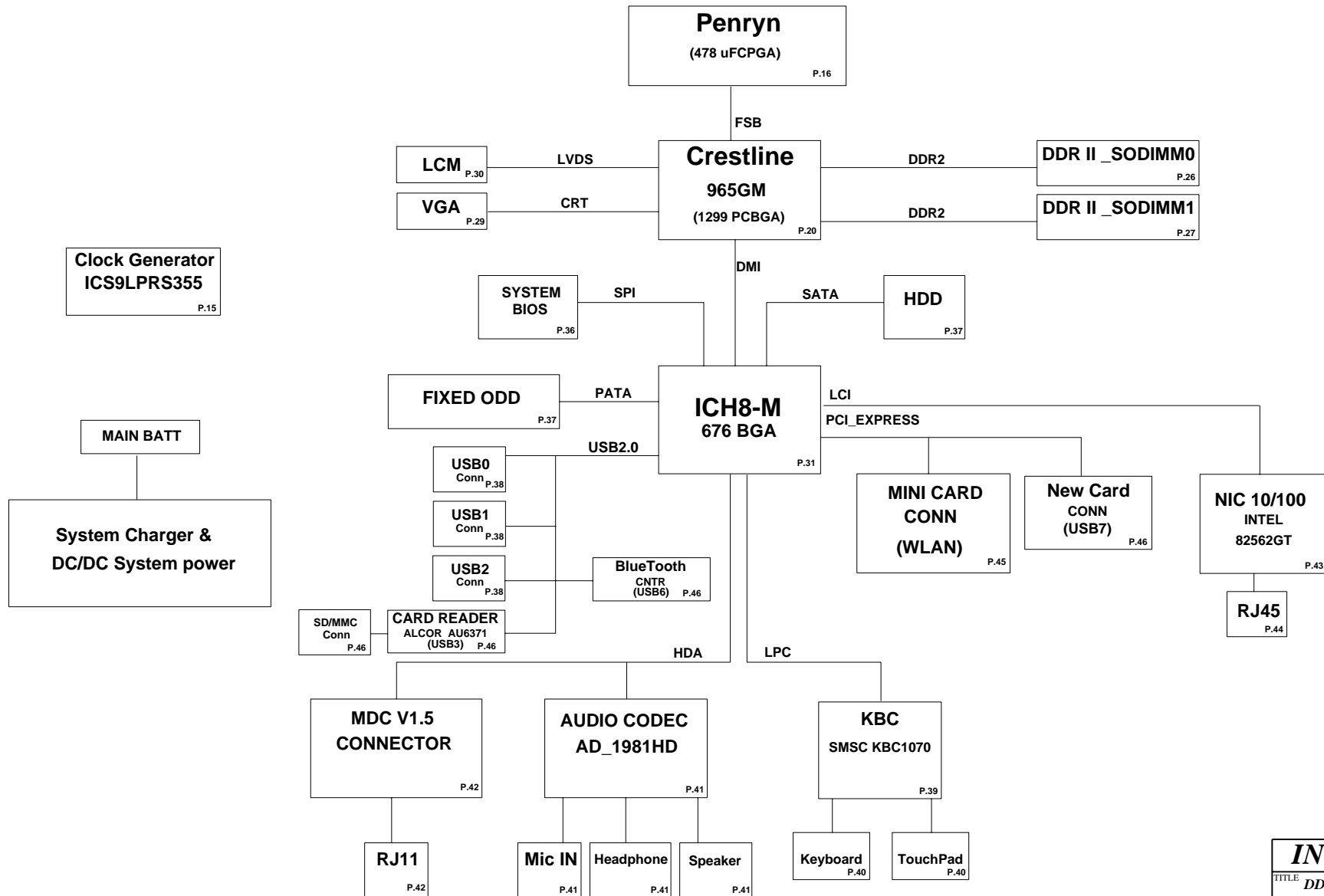
INVENTEC

TITLE **DDD UMA**

| | | | |
|-------------------|-------------------|--------------------------------|-------------------|
| SIZE A3 | CODE CS | DOC. NUMBER <i>Model No</i> | REV AXI |
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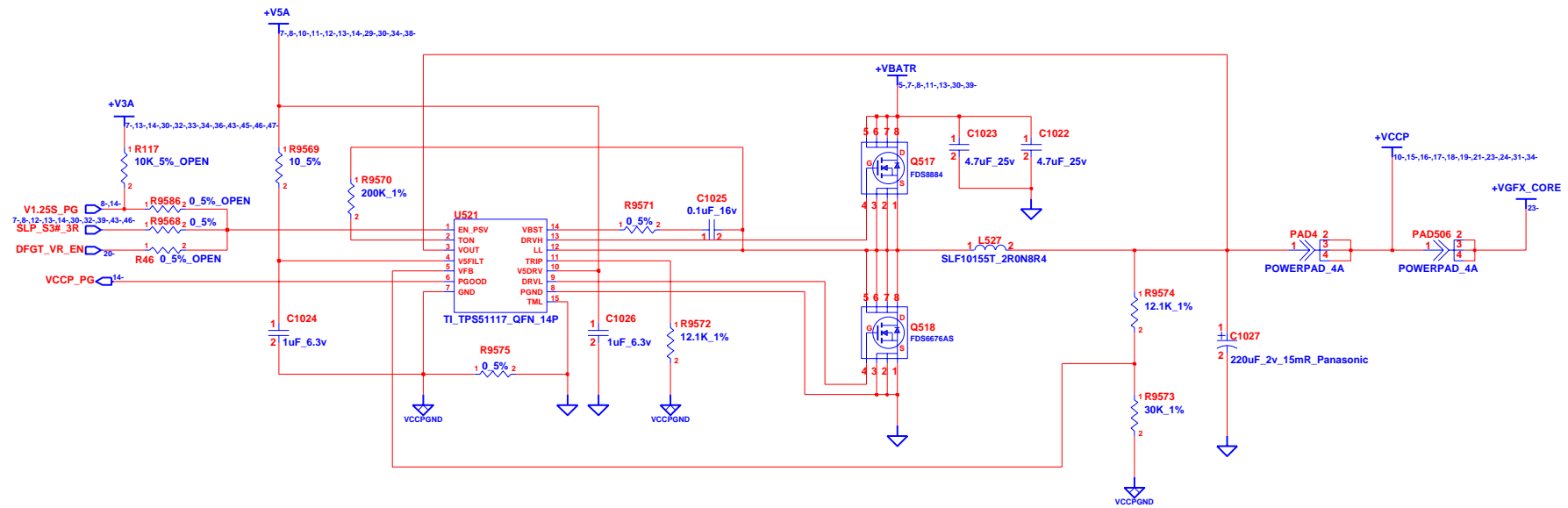
CHANGE by *Smit* 23-Mar-2007

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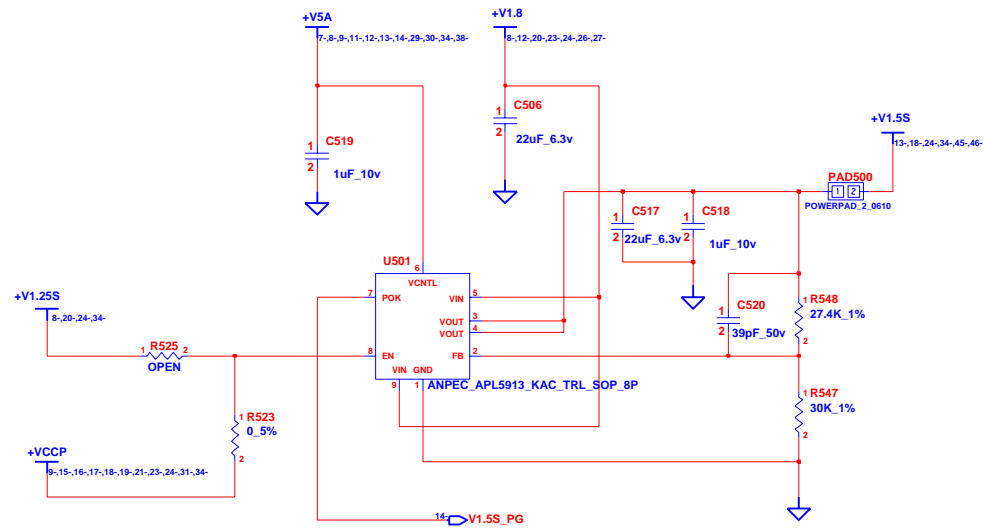


| INVENTEC | | | |
|----------------------|----------------|-----------------------------|----------------|
| TITLE DDD UMA | | | |
| SIZE A3 | CODE CS | DOC. NUMBER Model No | REV AXI |
| SHEET 3 | | OF 48 | |

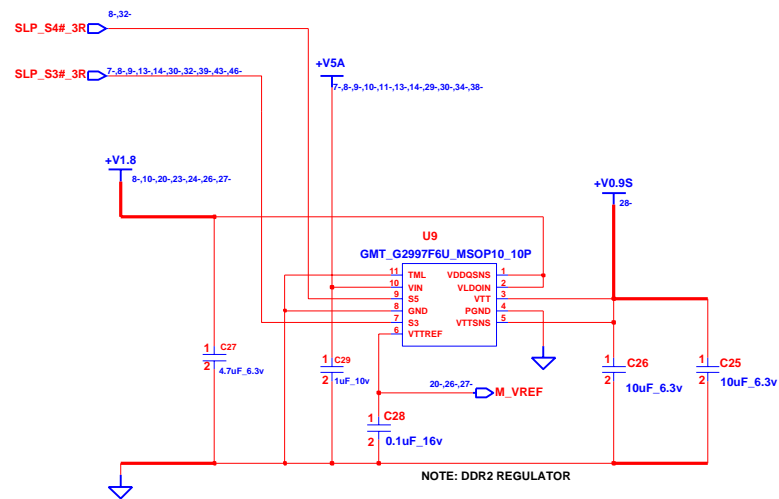
CHANGE by *Smit* 28-Mar-2007



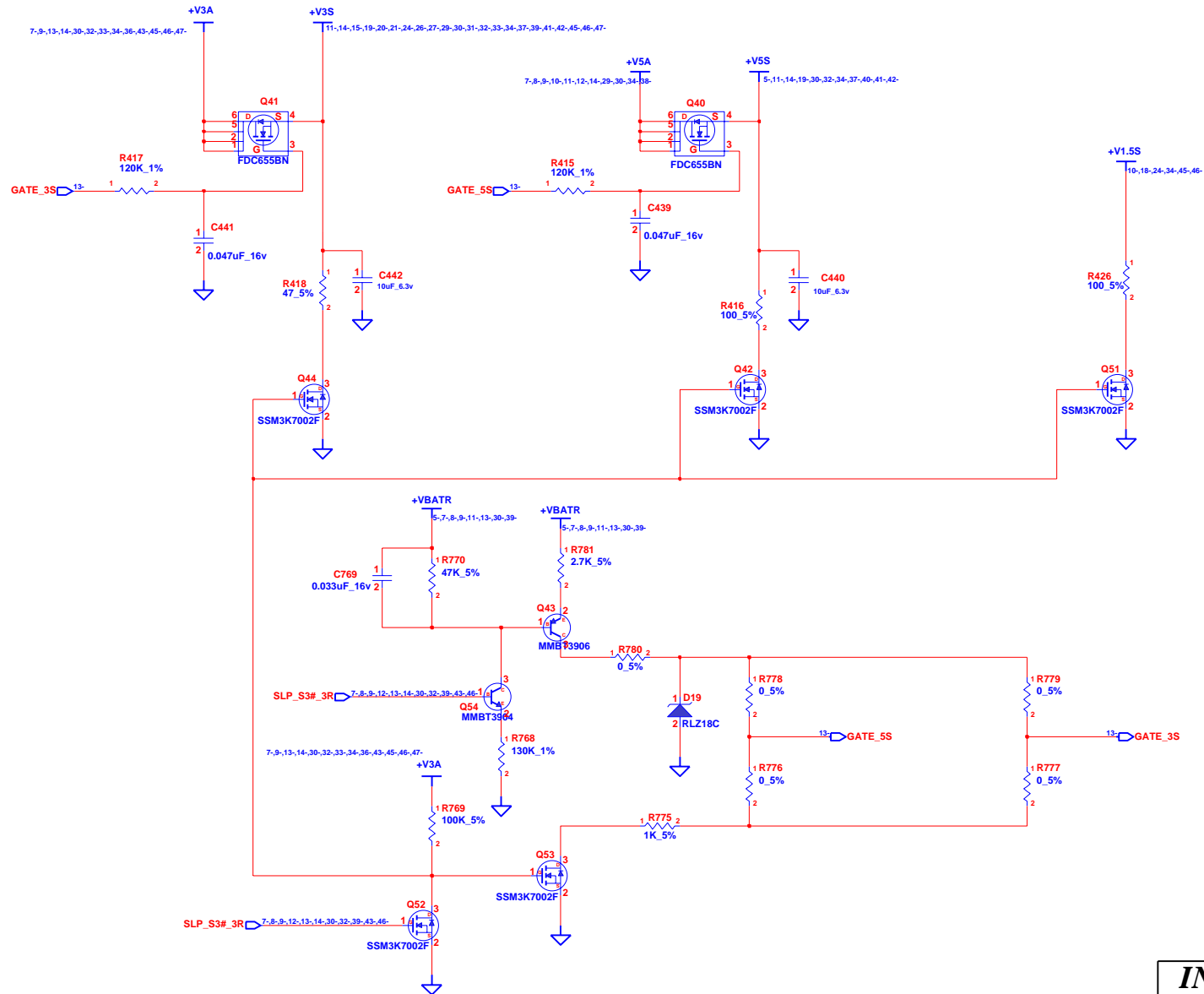
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|----------------------------|------|-------------|-----|
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| GRAPHIC POWER (+VGFX_CORE) | | | |
| SIZE | CODE | DOC. NUMBER | REV |
| A3 | CS | Model No | AXI |
| CHANGE by Smit | | 15-Mar-2007 | |
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| INVENTEC | | | |
|----------------------------|------|-------------|-------------|
| TITLE | | | |
| DDD UMA | | | |
| SYSTEM POWER(+VCCP/+V1.5S) | | | |
| SIZE | CODE | DOC. NUMBER | REV |
| A3 | CS | Model No | AXI |
| CHANGE by | | Smit | 15-Mar-2007 |
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| INVENTEC | | | |
|-------------------------|------|-------------|-------------|
| TITLE | | | |
| DDD UMA | | | |
| DDR TERMINATION VOLTAGE | | | |
| SIZE | CODE | DOC. NUMBER | REV |
| A3 | CS | Model No | AXI |
| CHANGE by | | Smit | 15-Mar-2007 |
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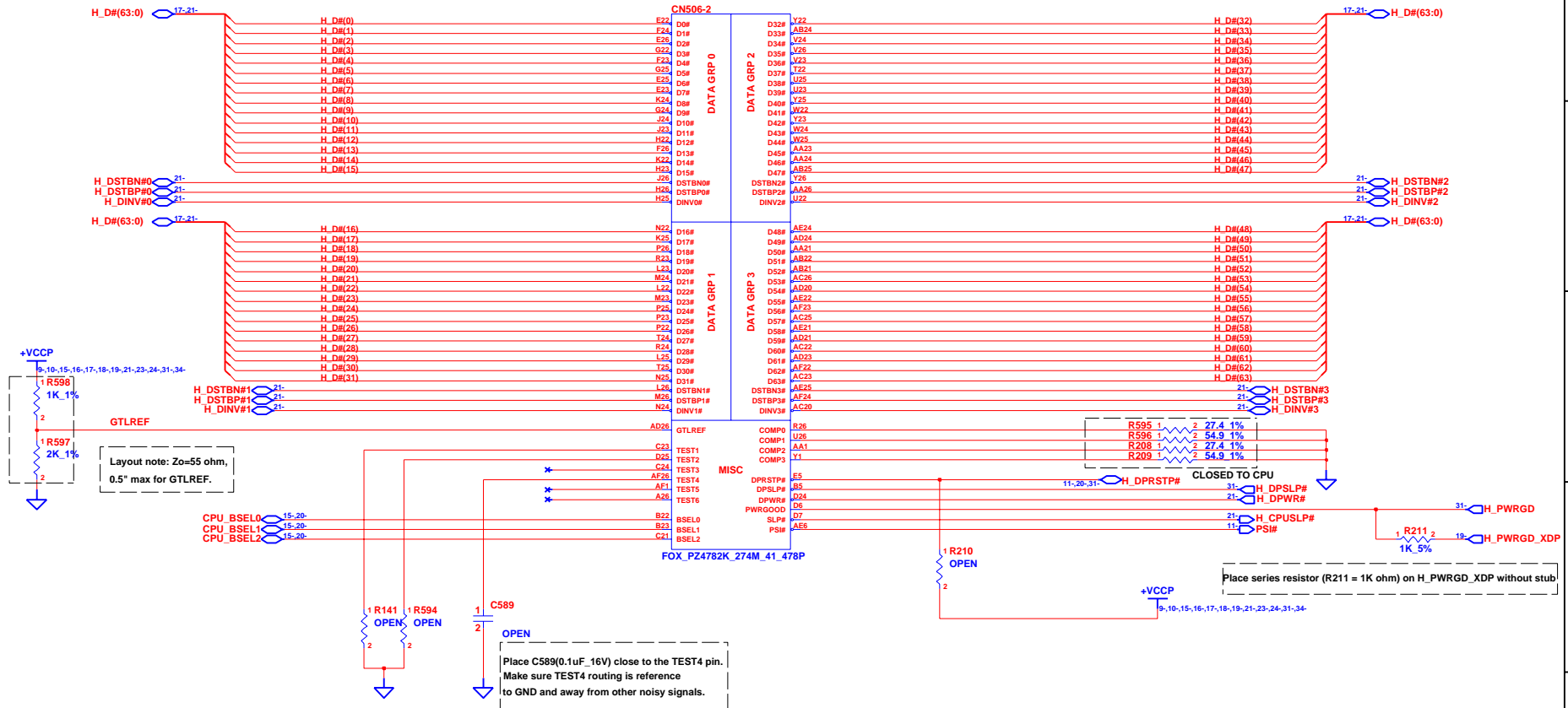


INVENTEC

| | | | |
|----------------------------------|------------|-------------------------|------------|
| TITLE DDD UMA POWER(SLEEP) | | | |
| SIZE A3 | CODE CS | DOC. NUMBER Model No | REV AXI |
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CHANGE by Smit 15-Mar-2007

| | | |
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| CHANGE by | <i>Smit</i> | <i>15-Mar-2007</i> |
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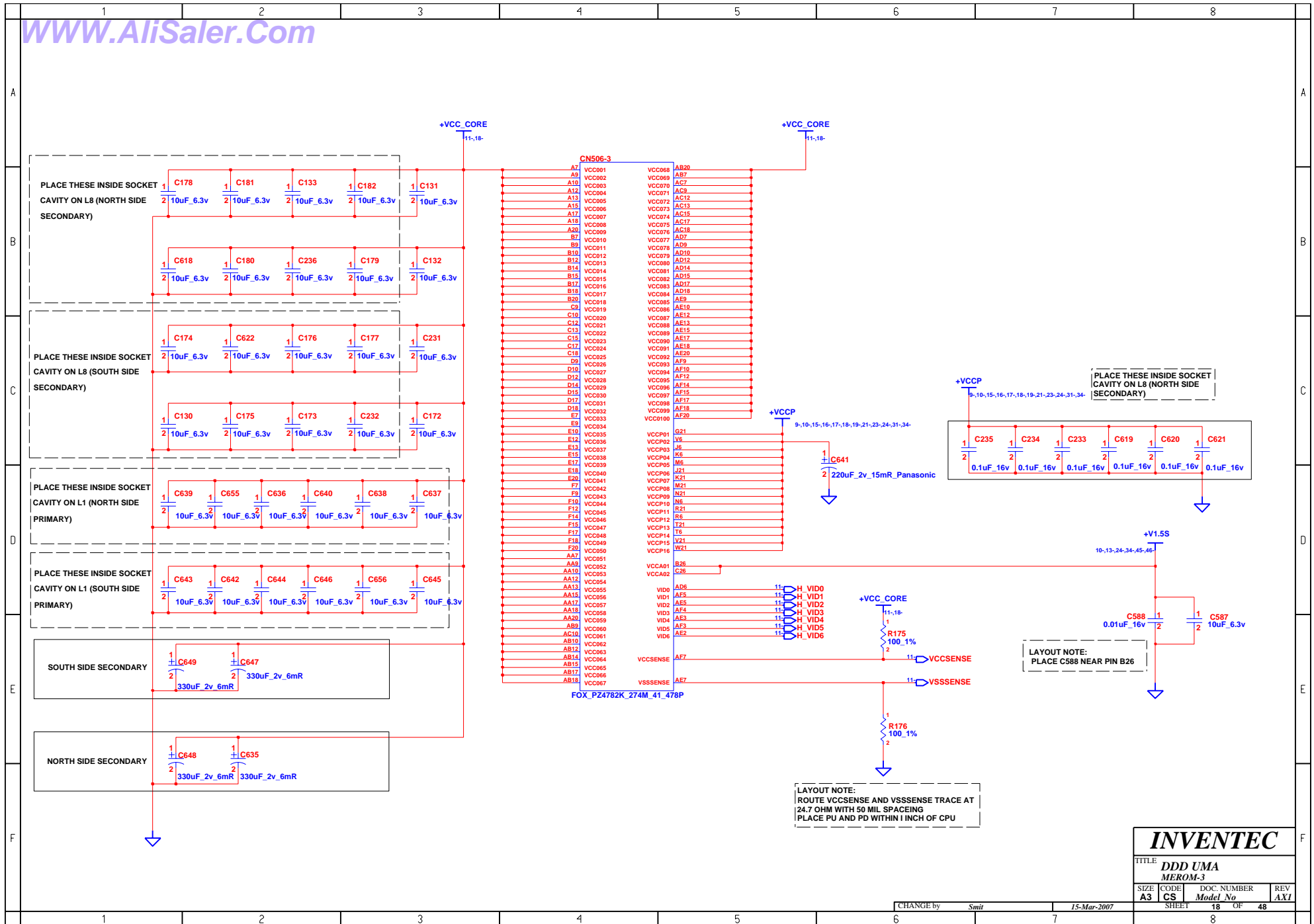
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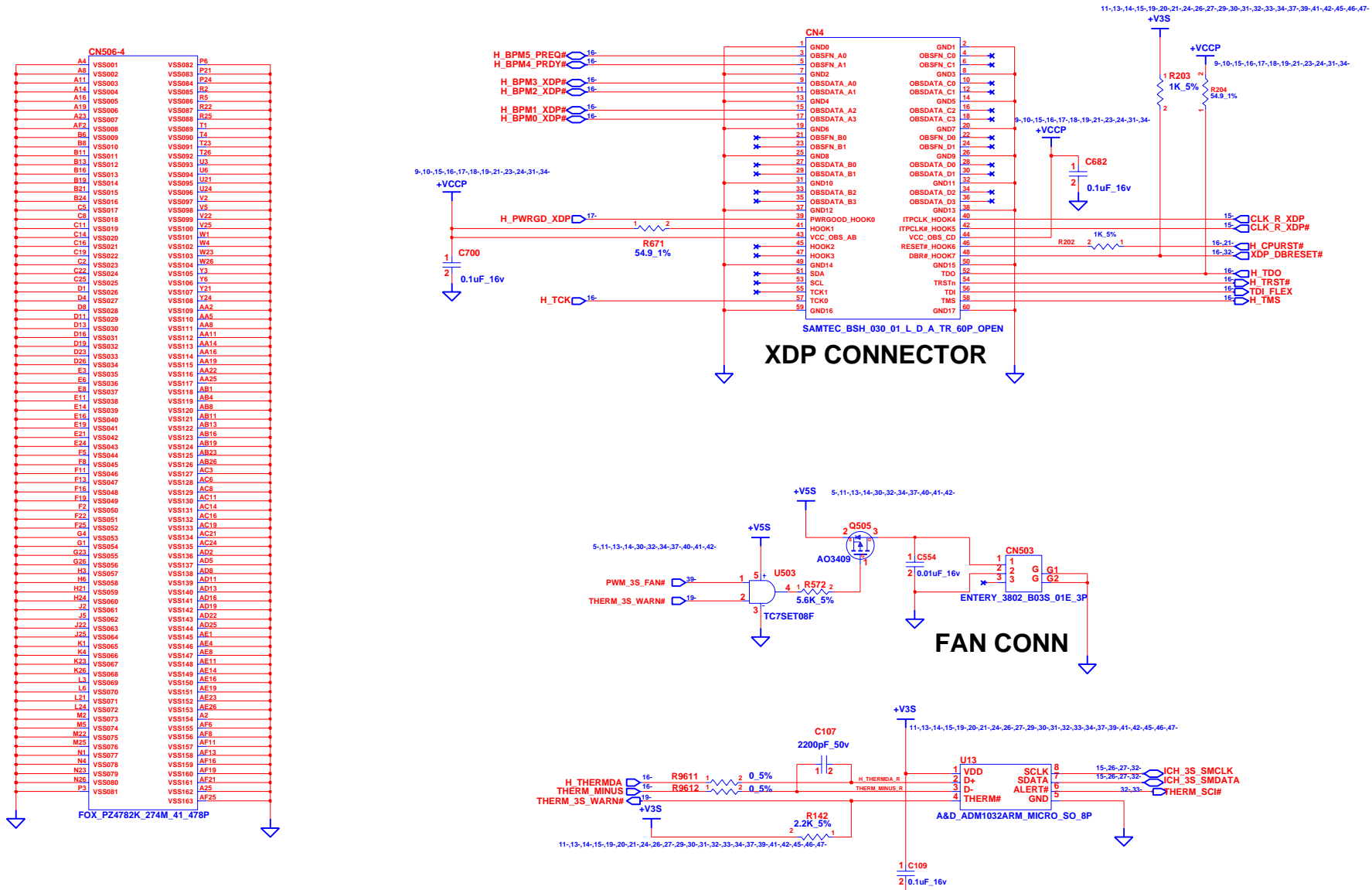
TITLE
DDD UMA
MEROM-2

| SIZE | CODE | DOC. NUMBER | REV |
|------|------|-------------|-----|
| A3 | CS | Model No | AXI |

CHANGE by Smit 15-Mar-2007

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LAYOUT NOTES: PUT THE THERMAL SENSOR CLOSE TO CPU

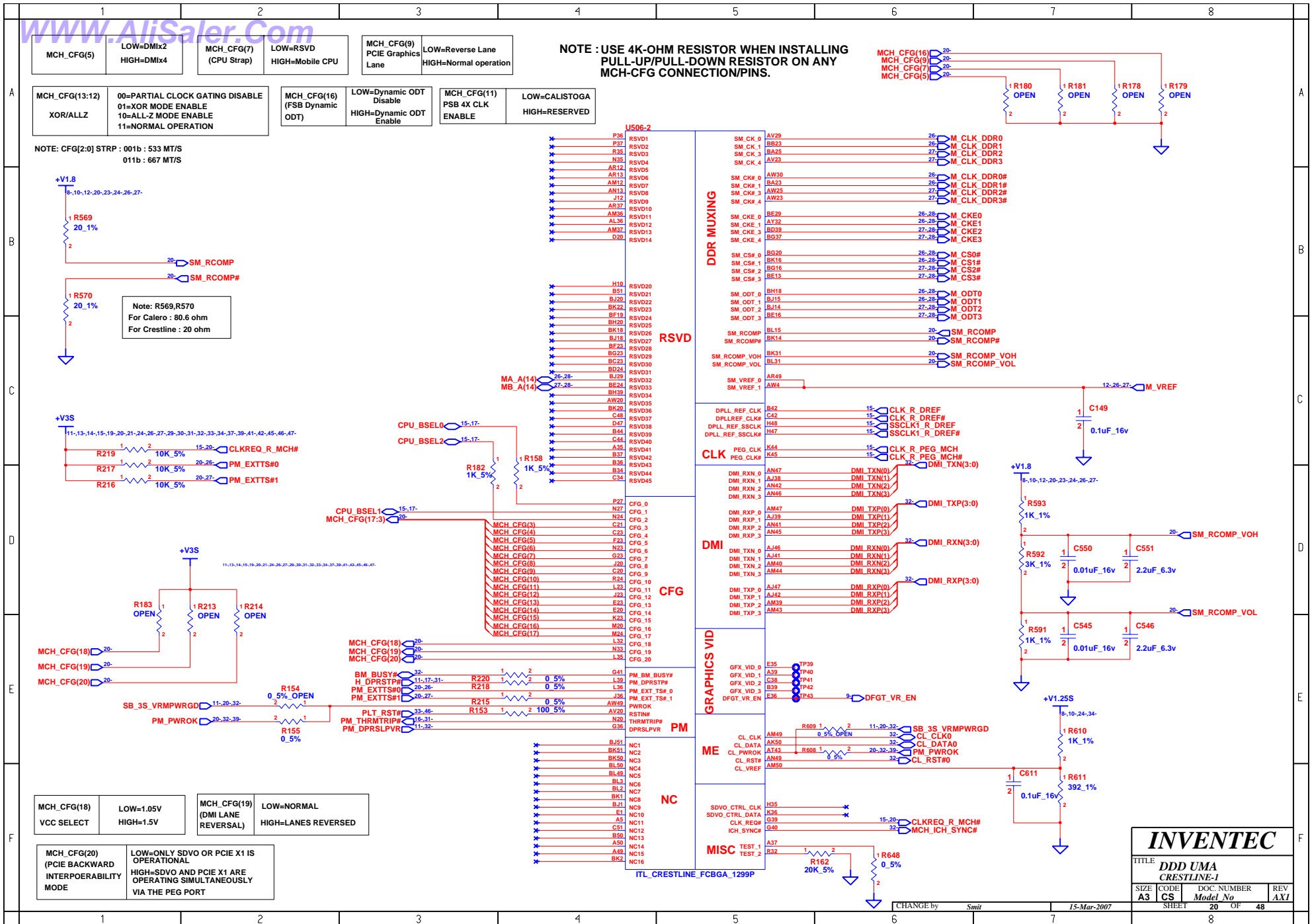
INVENTEC

TITLE
DDD UMA
THERMAL&FAN

| SIZE | CODE | DOC. NUMBER | REV |
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| A3 | CS | Model No | AXI |

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CHANGE by Smit 15-Mar-2007



MA_DATA(63:0)

MB_DATA(63:0)

DDR SYSTEM MEMORY A

DDR SYSTEM MEMORY B

ITL_CRESTRINE_FCBGA_1299P

ITL_CRESTRINE_FCBGA_1299P

INVENTEC

TITLE
DDD UMA
CRESTRINE-3

| SIZE | CODE | DOC. NUMBER | REV |
|------|------|-------------|-----|
| A3 | CS | Model No | AXI |

CHANGE by Smit

15-Mar-2007

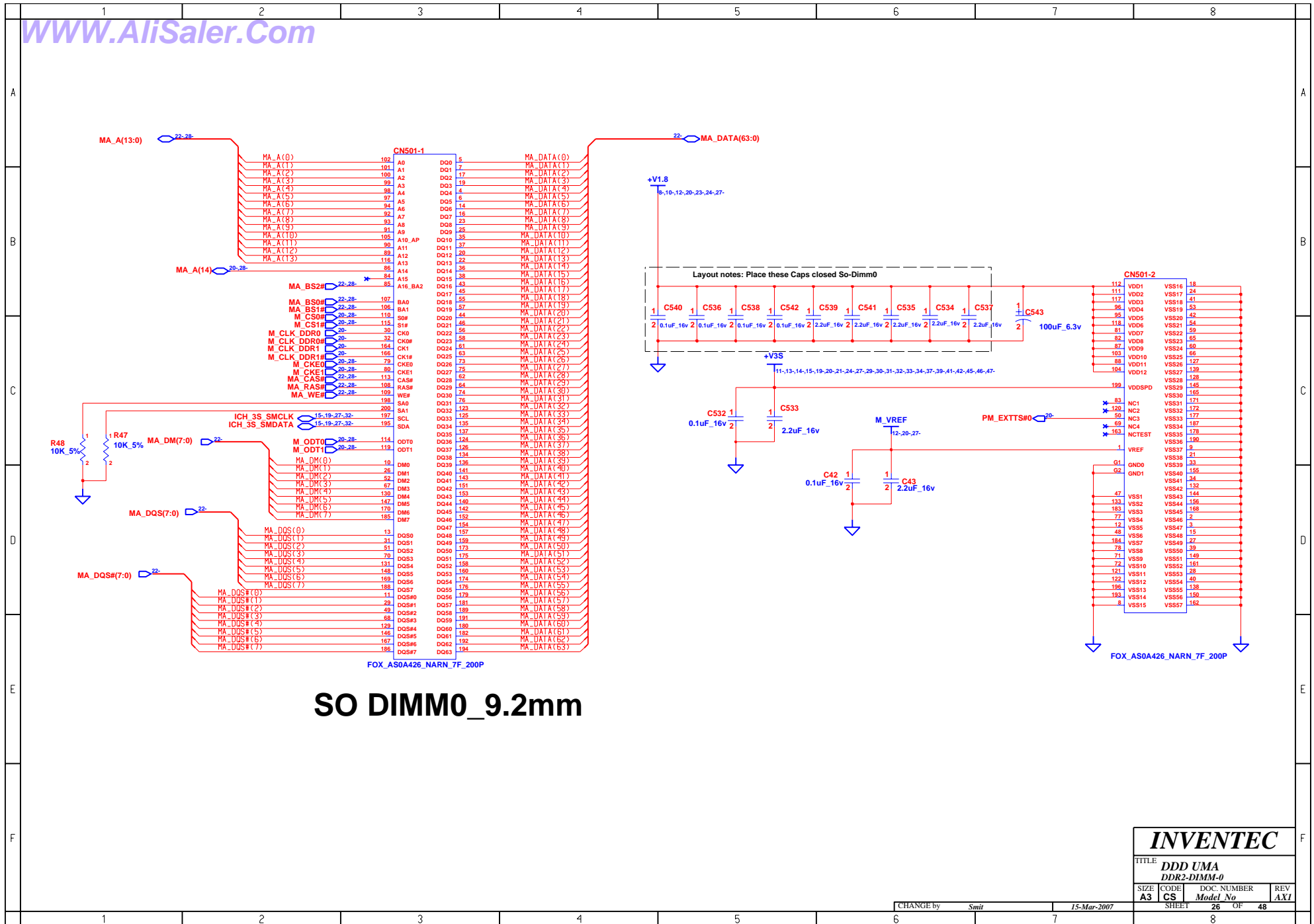
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| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
|---|---|---|--|--|----------------------------------|---|---|---|---|
| A | | <p>U506-9</p> <p>A13 VSS. 1</p> <p>A15 VSS. 2</p> <p>A17 VSS. 3</p> <p>A24 VSS. 4</p> <p>AA21 VSS. 5</p> <p>AA24 VSS. 6</p> <p>AB20 VSS. 7</p> <p>AB20 VSS. 8</p> <p>AB23 VSS. 9</p> <p>AB26 VSS. 10</p> <p>AB26 VSS. 11</p> <p>AB31 VSS. 12</p> <p>AC10 VSS. 13</p> <p>AC13 VSS. 14</p> <p>AC39 VSS. 15</p> <p>AC39 VSS. 16</p> <p>AC43 VSS. 17</p> <p>AC47 VSS. 18</p> <p>AD01 VSS. 19</p> <p>AD21 VSS. 20</p> <p>AD26 VSS. 21</p> <p>AD29 VSS. 22</p> <p>AD31 VSS. 23</p> <p>AD41 VSS. 24</p> <p>AD45 VSS. 25</p> <p>AD49 VSS. 26</p> <p>AD5 VSS. 27</p> <p>AD50 VSS. 28</p> <p>AD9 VSS. 29</p> <p>AE10 VSS. 30</p> <p>AE14 VSS. 31</p> <p>AE6 VSS. 32</p> <p>AF20 VSS. 33</p> <p>AF22 VSS. 34</p> <p>AF24 VSS. 35</p> <p>AF31 VSS. 36</p> <p>AG2 VSS. 37</p> <p>AG38 VSS. 38</p> <p>AG43 VSS. 39</p> <p>AG47 VSS. 40</p> <p>AG50 VSS. 41</p> <p>AH3 VSS. 42</p> <p>AH40 VSS. 43</p> <p>AH41 VSS. 44</p> <p>AH7 VSS. 45</p> <p>AH9 VSS. 46</p> <p>AJ11 VSS. 47</p> <p>AJ13 VSS. 48</p> <p>AJ21 VSS. 49</p> <p>AJ24 VSS. 50</p> <p>AJ29 VSS. 51</p> <p>AJ32 VSS. 52</p> <p>AJ43 VSS. 53</p> <p>AJ45 VSS. 54</p> <p>AJ49 VSS. 55</p> <p>AK20 VSS. 56</p> <p>AK21 VSS. 57</p> <p>AK26 VSS. 58</p> <p>AK28 VSS. 59</p> <p>AK41 VSS. 60</p> <p>AK51 VSS. 61</p> <p>AL1 VSS. 62</p> <p>AM11 VSS. 63</p> <p>AM13 VSS. 64</p> <p>AM3 VSS. 65</p> <p>AM4 VSS. 66</p> <p>AM41 VSS. 67</p> <p>AM45 VSS. 68</p> <p>AN1 VSS. 69</p> <p>AN38 VSS. 70</p> <p>AN39 VSS. 71</p> <p>AN43 VSS. 72</p> <p>AN5 VSS. 73</p> <p>AN7 VSS. 74</p> <p>AP4 VSS. 75</p> <p>AP49 VSS. 76</p> <p>AP50 VSS. 77</p> <p>AR11 VSS. 78</p> <p>AR2 VSS. 79</p> <p>AR39 VSS. 80</p> <p>AR44 VSS. 81</p> <p>AR47 VSS. 82</p> <p>AR7 VSS. 83</p> <p>AT10 VSS. 84</p> <p>AT14 VSS. 85</p> <p>AT41 VSS. 86</p> <p>AT49 VSS. 87</p> <p>AU1 VSS. 88</p> <p>AU23 VSS. 89</p> <p>AU29 VSS. 90</p> <p>AU3 VSS. 91</p> <p>AU36 VSS. 92</p> <p>AU49 VSS. 93</p> <p>AU51 VSS. 94</p> <p>AV28 VSS. 95</p> <p>AV45 VSS. 96</p> <p>AW1 VSS. 97</p> <p>AW12 VSS. 98</p> <p>AW16 VSS. 99</p> <p>VSS</p> <p>ITL_CRESTLINE_FCBGA_1299P</p> | <p>AW24 VSS. 100</p> <p>AW29 VSS. 101</p> <p>AW32 VSS. 102</p> <p>AW5 VSS. 103</p> <p>AW7 VSS. 104</p> <p>AY10 VSS. 105</p> <p>AY24 VSS. 106</p> <p>AY37 VSS. 107</p> <p>AY42 VSS. 108</p> <p>AY45 VSS. 109</p> <p>AY47 VSS. 110</p> <p>AY45 VSS. 111</p> <p>AY90 VSS. 112</p> <p>B10 VSS. 113</p> <p>B24 VSS. 114</p> <p>B29 VSS. 115</p> <p>B29 VSS. 116</p> <p>B30 VSS. 117</p> <p>B35 VSS. 118</p> <p>B38 VSS. 119</p> <p>B43 VSS. 120</p> <p>B46 VSS. 121</p> <p>B5 VSS. 122</p> <p>B8 VSS. 123</p> <p>BA1 VSS. 124</p> <p>BA17 VSS. 125</p> <p>BA18 VSS. 126</p> <p>BA2 VSS. 127</p> <p>BA24 VSS. 128</p> <p>BB12 VSS. 129</p> <p>BB25 VSS. 130</p> <p>BB40 VSS. 131</p> <p>BB44 VSS. 132</p> <p>BB49 VSS. 133</p> <p>BB8 VSS. 134</p> <p>BC16 VSS. 135</p> <p>BC24 VSS. 136</p> <p>BC25 VSS. 137</p> <p>BC38 VSS. 138</p> <p>BC40 VSS. 139</p> <p>BC51 VSS. 140</p> <p>BD13 VSS. 141</p> <p>BD2 VSS. 142</p> <p>BD45 VSS. 143</p> <p>BD45 VSS. 144</p> <p>BD48 VSS. 145</p> <p>BD5 VSS. 146</p> <p>BE1 VSS. 147</p> <p>BE19 VSS. 148</p> <p>BE23 VSS. 149</p> <p>BE30 VSS. 150</p> <p>BE42 VSS. 151</p> <p>BE5 VSS. 152</p> <p>BE8 VSS. 153</p> <p>BF12 VSS. 154</p> <p>BF16 VSS. 155</p> <p>BF5 VSS. 156</p> <p>BG19 VSS. 157</p> <p>BG2 VSS. 158</p> <p>BG24 VSS. 159</p> <p>BG29 VSS. 160</p> <p>BG39 VSS. 161</p> <p>BG48 VSS. 162</p> <p>BG5 VSS. 163</p> <p>BH17 VSS. 164</p> <p>BH17 VSS. 165</p> <p>BH30 VSS. 166</p> <p>BH44 VSS. 167</p> <p>BH46 VSS. 168</p> <p>BH8 VSS. 169</p> <p>BJ11 VSS. 170</p> <p>BJ38 VSS. 171</p> <p>BJ4 VSS. 172</p> <p>BJ42 VSS. 173</p> <p>BJ46 VSS. 174</p> <p>BK15 VSS. 175</p> <p>BK17 VSS. 176</p> <p>BK25 VSS. 177</p> <p>BK29 VSS. 178</p> <p>BK38 VSS. 179</p> <p>BK39 VSS. 180</p> <p>BK40 VSS. 181</p> <p>BK44 VSS. 182</p> <p>BK8 VSS. 183</p> <p>BK8 VSS. 184</p> <p>BL11 VSS. 185</p> <p>BL13 VSS. 186</p> <p>BL19 VSS. 187</p> <p>BL22 VSS. 188</p> <p>BL37 VSS. 189</p> <p>BL47 VSS. 190</p> <p>C12 VSS. 191</p> <p>C16 VSS. 192</p> <p>C19 VSS. 193</p> <p>C28 VSS. 194</p> <p>C29 VSS. 195</p> <p>C33 VSS. 196</p> <p>C36 VSS. 197</p> <p>C41 VSS. 198</p> | <p>U506-10</p> <p>C49 VSS. 199</p> <p>C58 VSS. 200</p> <p>C7 VSS. 201</p> <p>D13 VSS. 202</p> <p>D24 VSS. 203</p> <p>D3 VSS. 204</p> <p>D32 VSS. 205</p> <p>D39 VSS. 206</p> <p>D45 VSS. 207</p> <p>D45 VSS. 208</p> <p>D45 VSS. 209</p> <p>E10 VSS. 210</p> <p>E18 VSS. 211</p> <p>E24 VSS. 212</p> <p>E29 VSS. 213</p> <p>E47 VSS. 214</p> <p>F18 VSS. 215</p> <p>F38 VSS. 216</p> <p>F4 VSS. 217</p> <p>F49 VSS. 218</p> <p>F58 VSS. 219</p> <p>G1 VSS. 220</p> <p>G13 VSS. 221</p> <p>G19 VSS. 222</p> <p>G19 VSS. 223</p> <p>G24 VSS. 224</p> <p>G28 VSS. 225</p> <p>G33 VSS. 226</p> <p>G33 VSS. 227</p> <p>G42 VSS. 228</p> <p>G49 VSS. 229</p> <p>G49 VSS. 230</p> <p>G49 VSS. 231</p> <p>G8 VSS. 232</p> <p>H24 VSS. 233</p> <p>H28 VSS. 234</p> <p>H45 VSS. 235</p> <p>J11 VSS. 236</p> <p>J18 VSS. 237</p> <p>J18 VSS. 238</p> <p>J24 VSS. 239</p> <p>J28 VSS. 240</p> <p>J28 VSS. 241</p> <p>J35 VSS. 242</p> <p>J39 VSS. 243</p> <p>K12 VSS. 245</p> <p>K4 VSS. 246</p> <p>K8 VSS. 247</p> <p>L1 VSS. 248</p> <p>L15 VSS. 249</p> <p>L28 VSS. 250</p> <p>L24 VSS. 251</p> <p>L29 VSS. 252</p> <p>L3 VSS. 253</p> <p>L3 VSS. 254</p> <p>L49 VSS. 255</p> <p>M28 VSS. 256</p> <p>M45 VSS. 257</p> <p>M45 VSS. 258</p> <p>M49 VSS. 259</p> <p>M5 VSS. 260</p> <p>M59 VSS. 261</p> <p>M9 VSS. 262</p> <p>N11 VSS. 263</p> <p>N14 VSS. 264</p> <p>N12 VSS. 265</p> <p>N28 VSS. 266</p> <p>N34 VSS. 267</p> <p>N38 VSS. 268</p> <p>N38 VSS. 269</p> <p>N44 VSS. 270</p> <p>N49 VSS. 271</p> <p>N7 VSS. 272</p> <p>P15 VSS. 273</p> <p>P2 VSS. 274</p> <p>P29 VSS. 275</p> <p>P29 VSS. 276</p> <p>P59 VSS. 277</p> <p>R49 VSS. 278</p> <p>T39 VSS. 279</p> <p>T45 VSS. 280</p> <p>T47 VSS. 281</p> <p>U41 VSS. 282</p> <p>U48 VSS. 283</p> <p>U58 VSS. 284</p> <p>V2 VSS. 285</p> <p>V3 VSS. 286</p> <p>VSS. 287</p> <p>VSS. 288</p> <p>VSS. 289</p> <p>VSS. 290</p> <p>VSS. 291</p> <p>VSS. 292</p> <p>VSS. 293</p> <p>VSS. 294</p> <p>VSS. 295</p> <p>VSS. 296</p> <p>VSS. 297</p> <p>VSS. 298</p> <p>VSS. 299</p> <p>VSS. 300</p> <p>VSS. 301</p> <p>VSS. 302</p> <p>VSS. 303</p> <p>VSS. 304</p> <p>VSS. 305</p> <p>AA32 VSS. 306</p> <p>AB32 VSS. 307</p> <p>AD32 VSS. 308</p> <p>AF29 VSS. 309</p> <p>AT27 VSS. 310</p> <p>AV28 VSS. 311</p> <p>HS9 VSS. 312</p> <p>HS9 VSS. 313</p> <p>W11 VSS. 314</p> <p>W39 VSS. 315</p> <p>W43 VSS. 316</p> <p>W47 VSS. 317</p> <p>W5 VSS. 318</p> <p>W7 VSS. 319</p> <p>Y13 VSS. 320</p> <p>Y2 VSS. 321</p> <p>Y41 VSS. 322</p> <p>Y45 VSS. 323</p> <p>Y49 VSS. 324</p> <p>Y5 VSS. 325</p> <p>Y59 VSS. 326</p> <p>Y11 VSS. 327</p> <p>P29 VSS. 328</p> <p>R160 VSS. 329</p> <p>R163 VSS. 330</p> <p>R164 VSS. 331</p> <p>R159 VSS. 332</p> <p>R159 VSS. 333</p> <p>0.5%</p> <p>0.5%</p> <p>0.5%</p> <p>0.5%</p> <p>ITL_CRESTLINE_FCBGA_1299P</p> | <p>ITL_CRESTLINE_FCBGA_1299P</p> | | | | |
| B | | | | | | | | | B |
| C | | | | | | | | | C |
| D | | | | | | | | | D |
| E | | | | | | | | | E |
| F | | | | | | | | | F |

INVENTEC

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|---------------------------------|------------|-------------------------|------------|
| TITLE DDD UMA CRESTLINE-6 | | | |
| SIZE A3 | CODE CS | DOC. NUMBER Model No | REV AXI |
| SHEET 25 OF 48 | | | |

CHANGE by Smit 15-Mar-2007



A

B

C

D

E

F

A

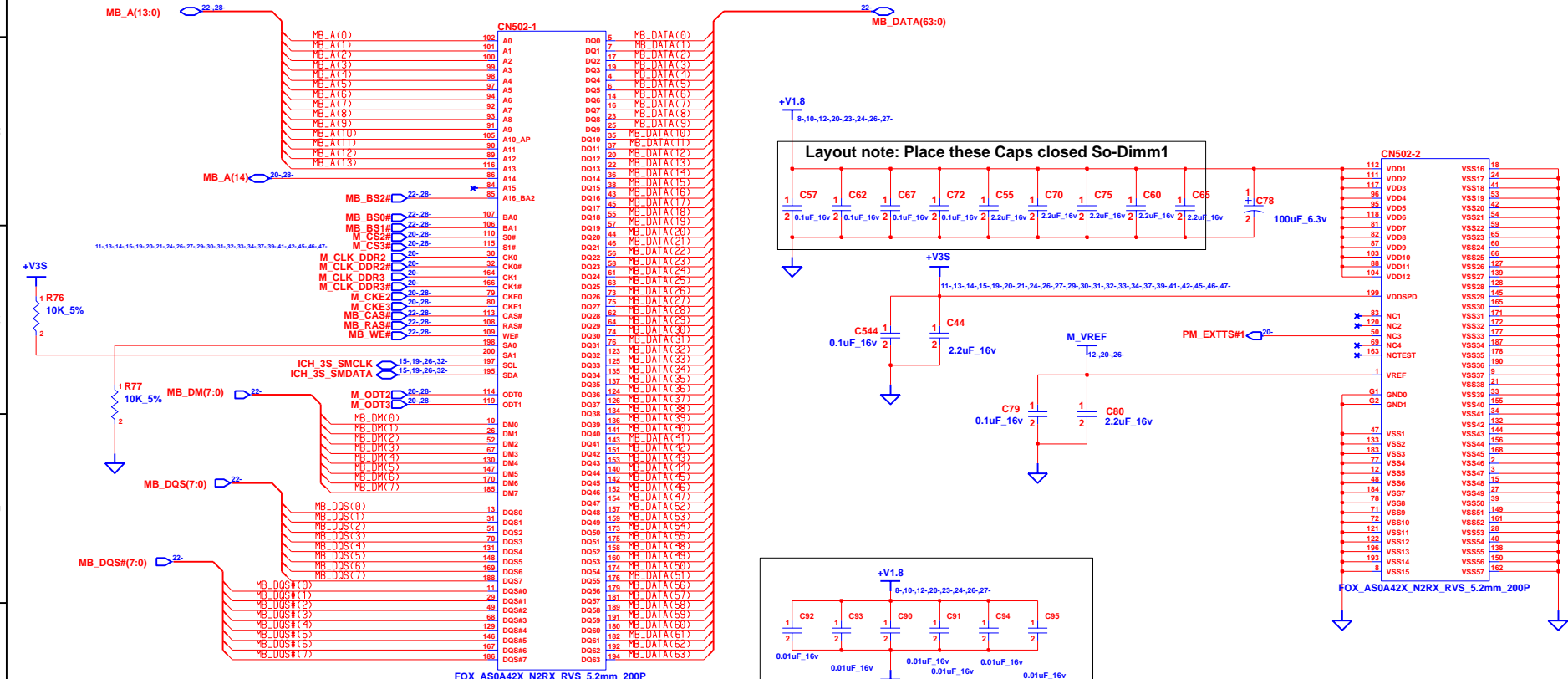
B

C

D

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F



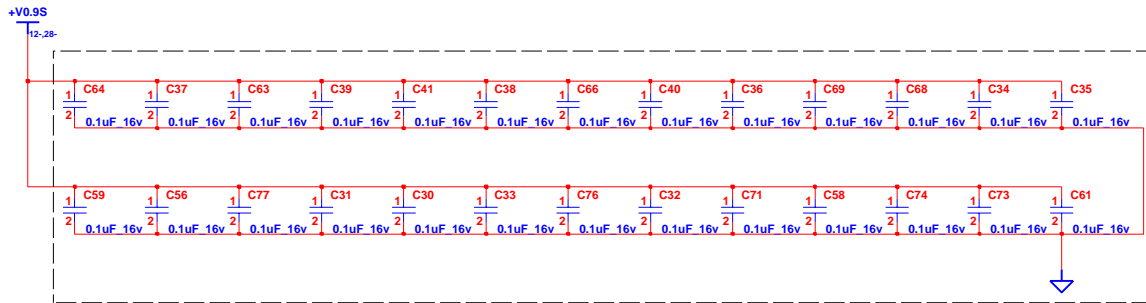
SO DIMM1 5.2mm

INVENTEC

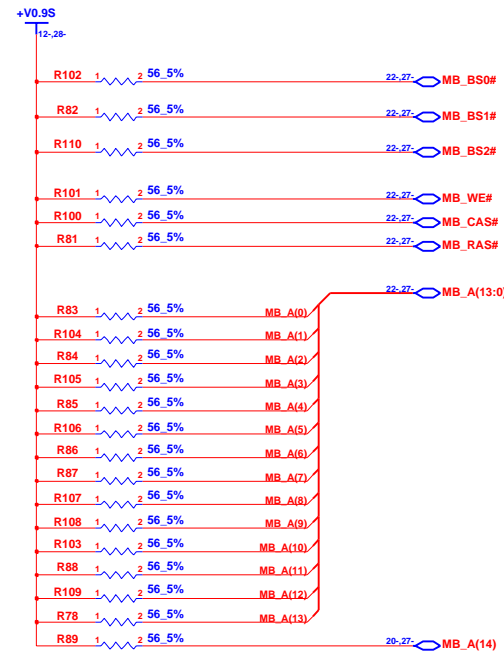
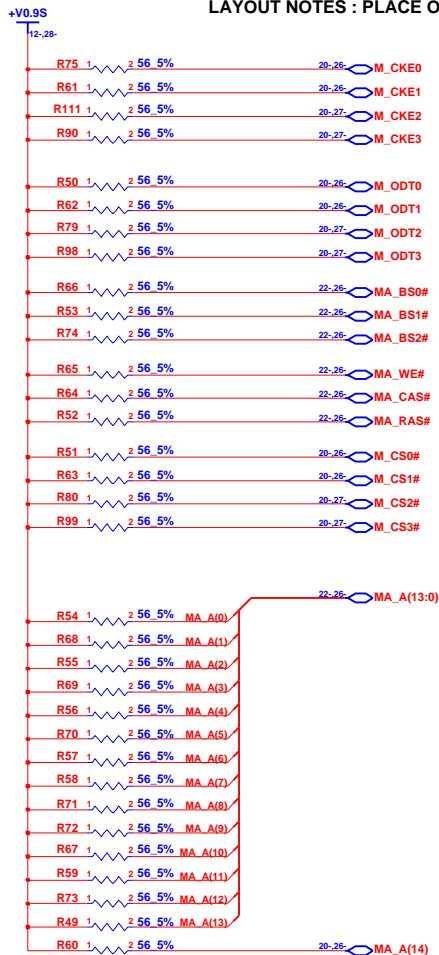
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|--------------------------------|------------|-------------------------|------------|
| TITLE DDD UMA DDR2-DIMM1 | | | |
| SIZE A3 | CODE CS | DOC. NUMBER Model No | REV AXI |

CHANGE by Smit 2-Apr-2007

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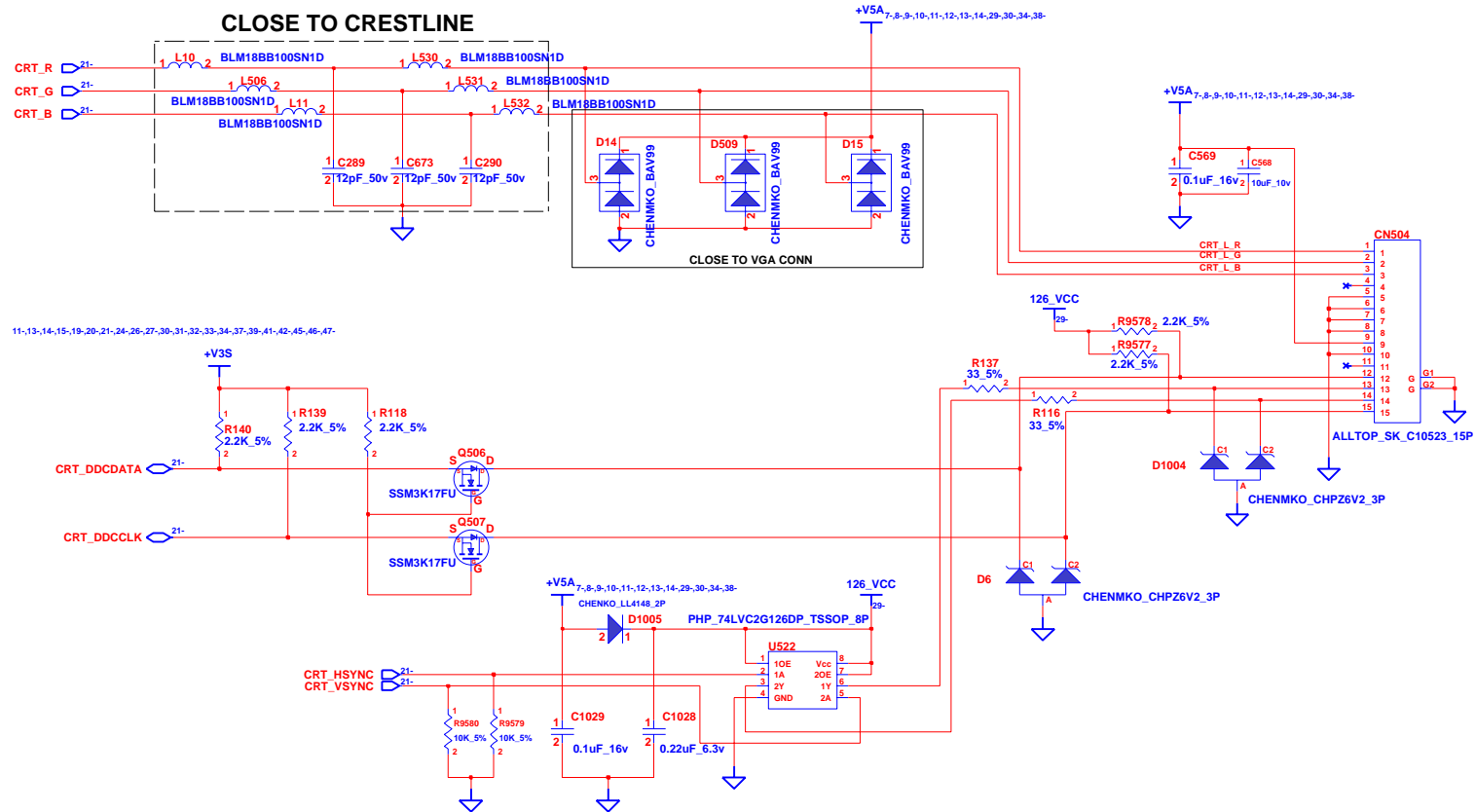


LAYOUT NOTES : PLACE ONE CAP CLOSE TO EVERY 2 PULL UP RESISTOR TERMINATED TO +V0.9S

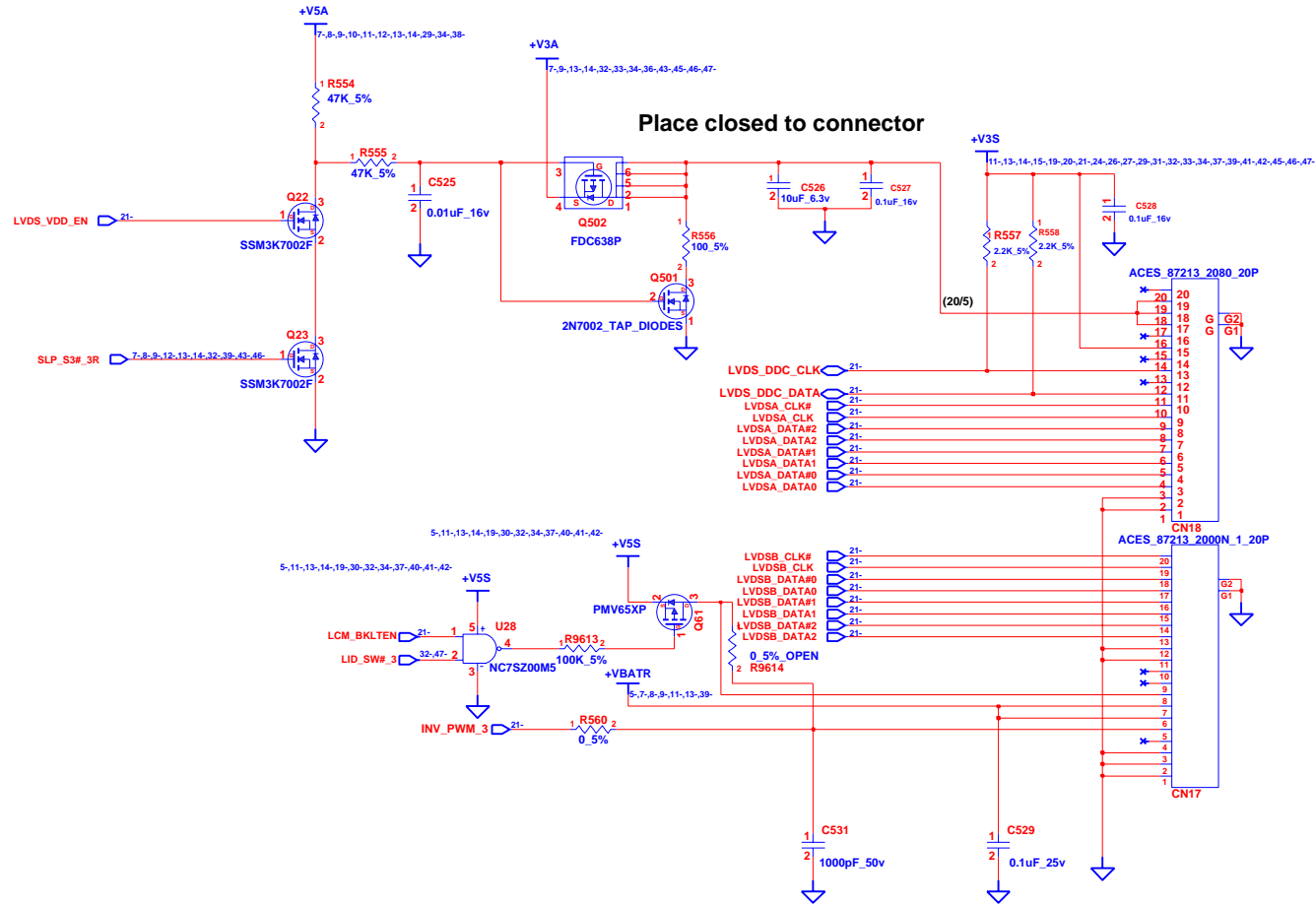


| INVENTEC | | | |
|----------------------------------|------------|-------------------------|------------|
| TITLE DDD UMA DDR2-DAMPING | | | |
| SIZE A3 | CODE CS | DOC. NUMBER Model No | REV AXI |
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CHANGE by Smit 27-Sep-2003



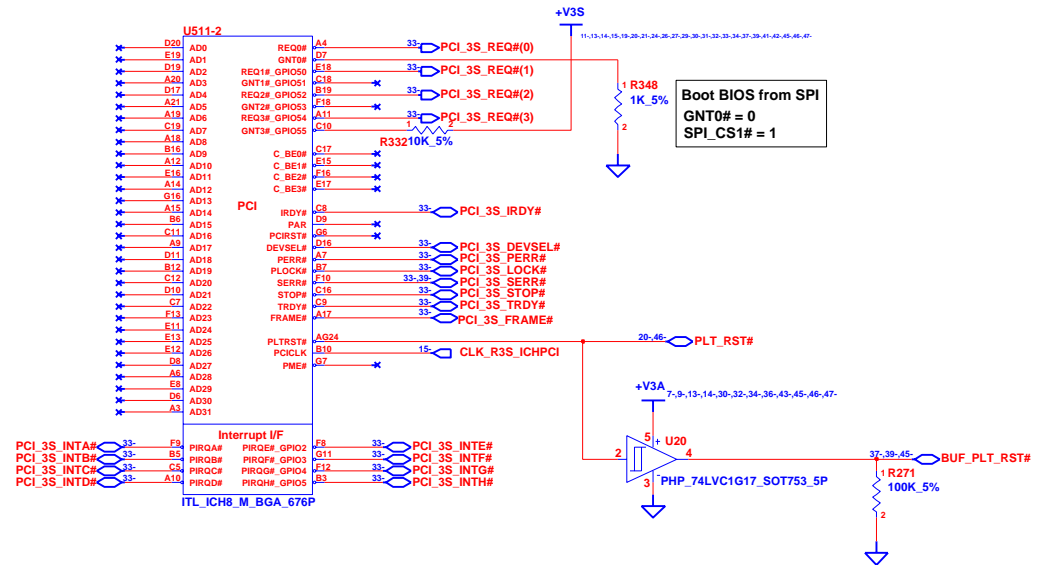
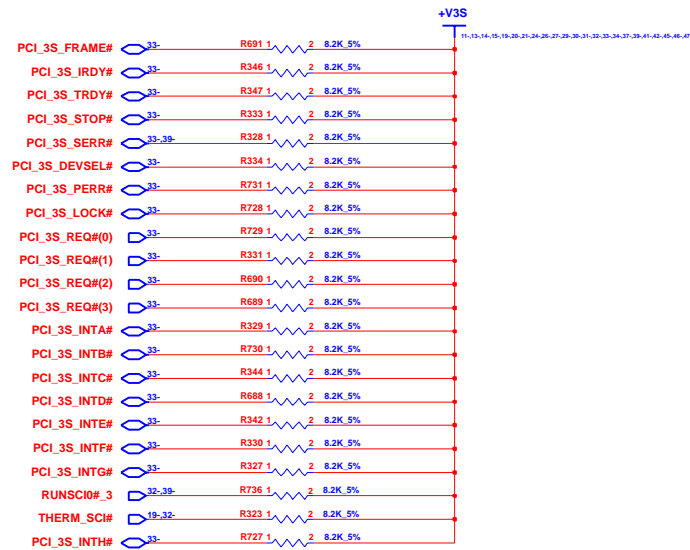
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|------------------------------|------------|-------------------------|-------------------|
| TITLE DDD UMA VGA CONN | | | |
| SIZE A3 | CODE CS | DOC. NUMBER Model No | REV AXI |
| CHANGE by Smit | | 23-Mar-2007 | SHEET 29 OF 48 |



INVENTEC

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|------------------------------|------------|-------------------------|------------|
| TITLE DDD UMA LCM CONN | | | |
| SIZE A3 | CODE CS | DOC. NUMBER Model No | REV AXI |
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CHANGE by Smit 26-Mar-2007



Boot BIOS from SPI
GNT0# = 0
SPI_CS1# = 1

INVENTEC

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|----------------------------|------------|-------------------------|------------|
| TITLE DDD UMA ICH8-3 | | | |
| SIZE A3 | CODE CS | DOC. NUMBER Model No | REV AXI |
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CHANGE by Smit 15-Mar-2007

A

B

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F

A

B

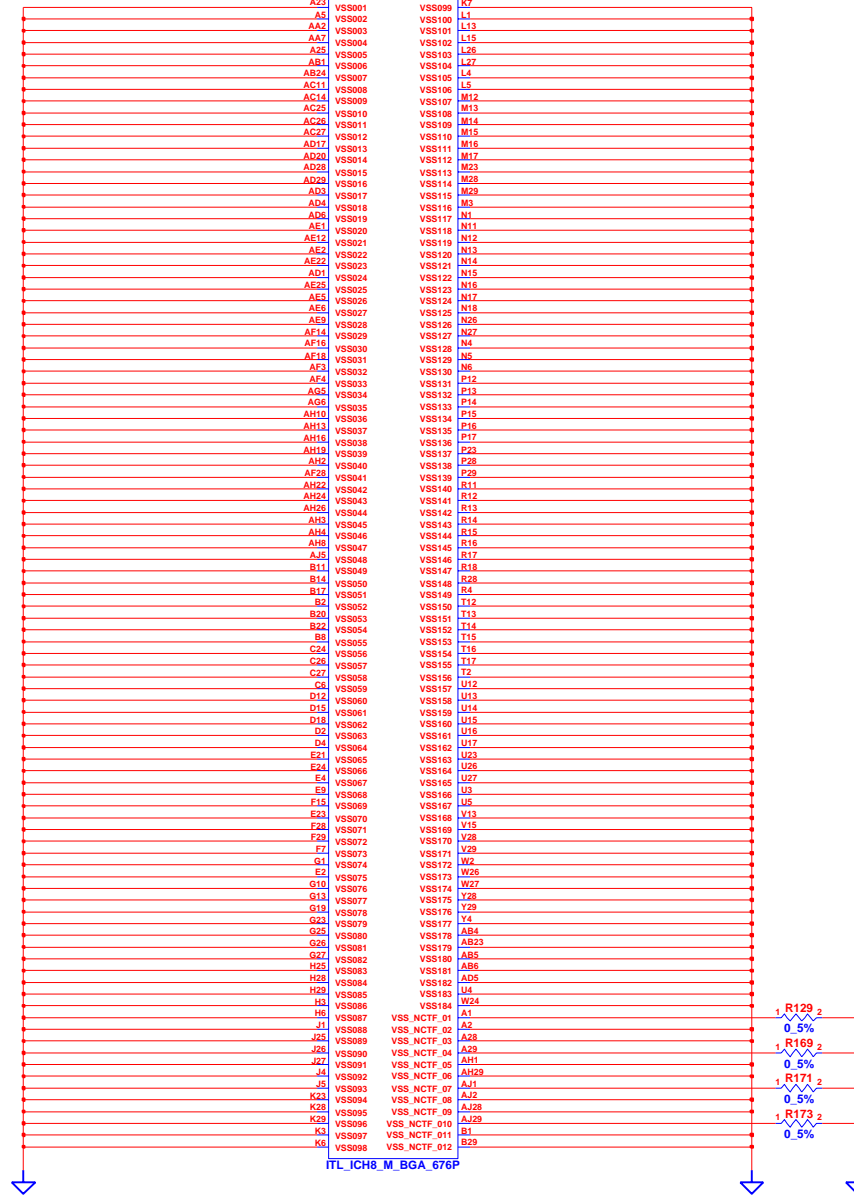
C

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F

U511-5



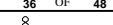
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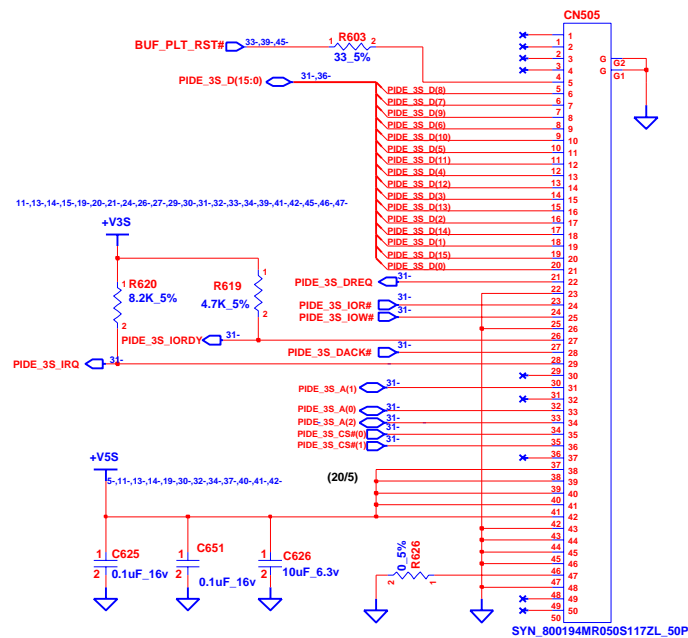
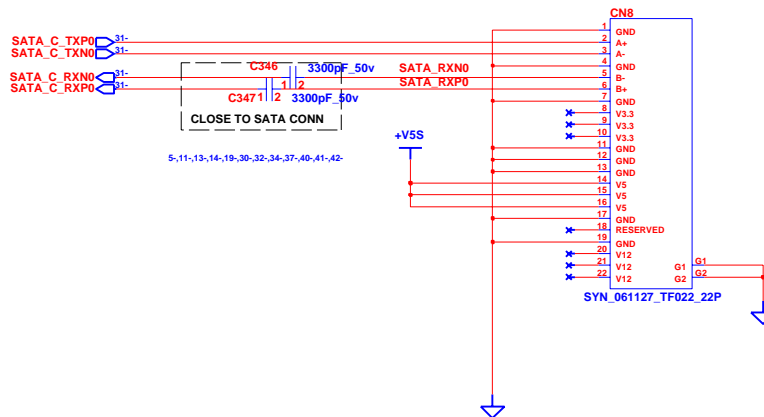
INVENTEC

| | | | |
|---------|------|-------------|-----|
| TITLE | | | |
| DDD UMA | | | |
| ICH8-5 | | | |
| SIZE | CODE | DOC. NUMBER | REV |
| A3 | CS | Model No | AXI |

CHANGE by Smit 15-Mar-2007

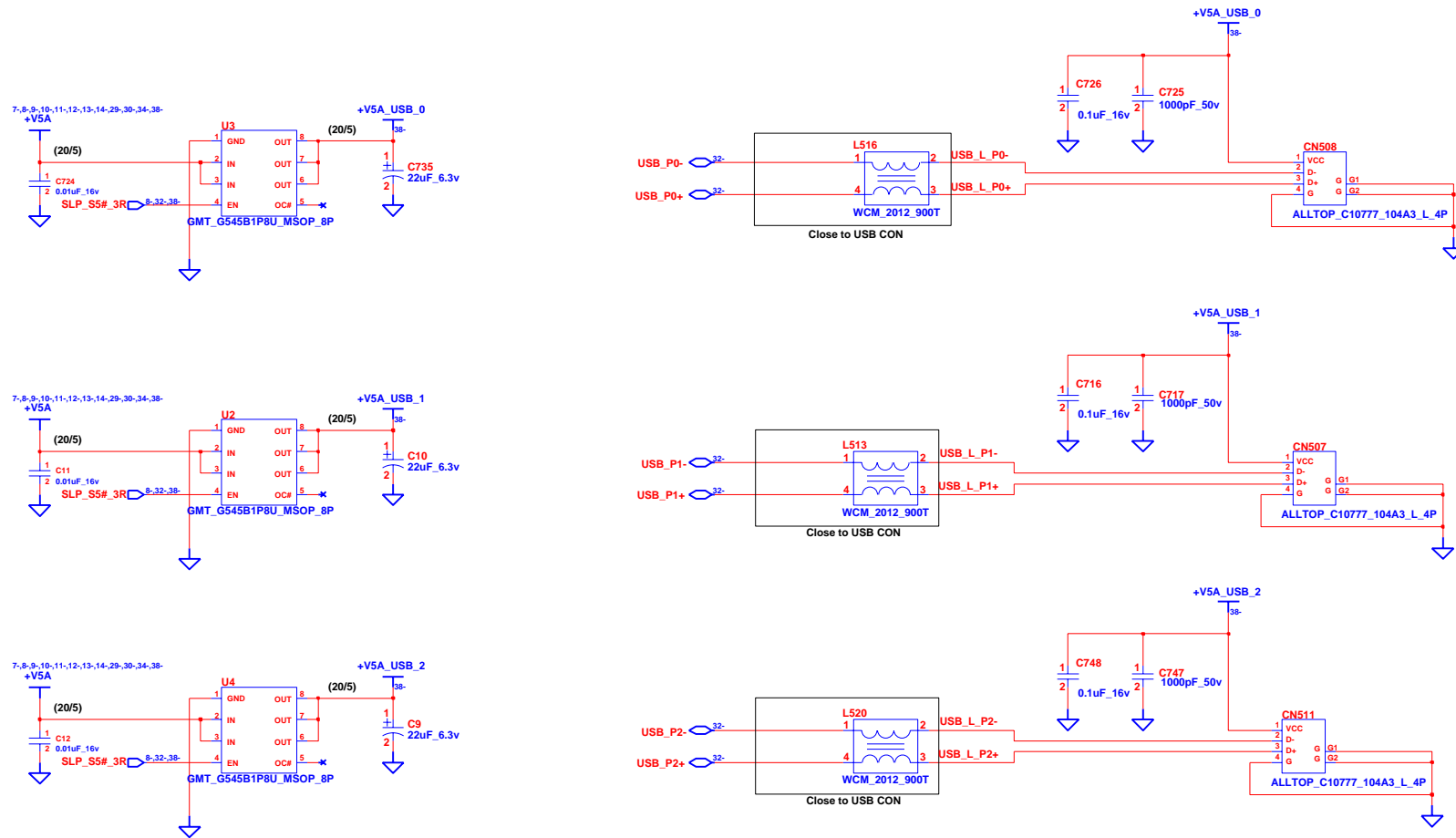
SHEET 35 OF 48





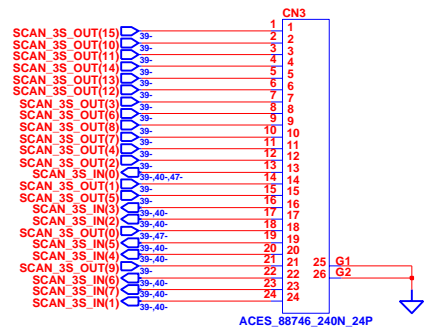
| INVENTEC | | | | |
|------------------------------------|------------|-------------------------|------------|----|
| TITLE DDD UMA HDD & ODD CONN | | | | |
| SIZE A3 | CODE CS | DOC. NUMBER Model No | REV AXI | |
| SHEET | | 37 | OF | 48 |

CHANGE by Smit 15-Mar-2007

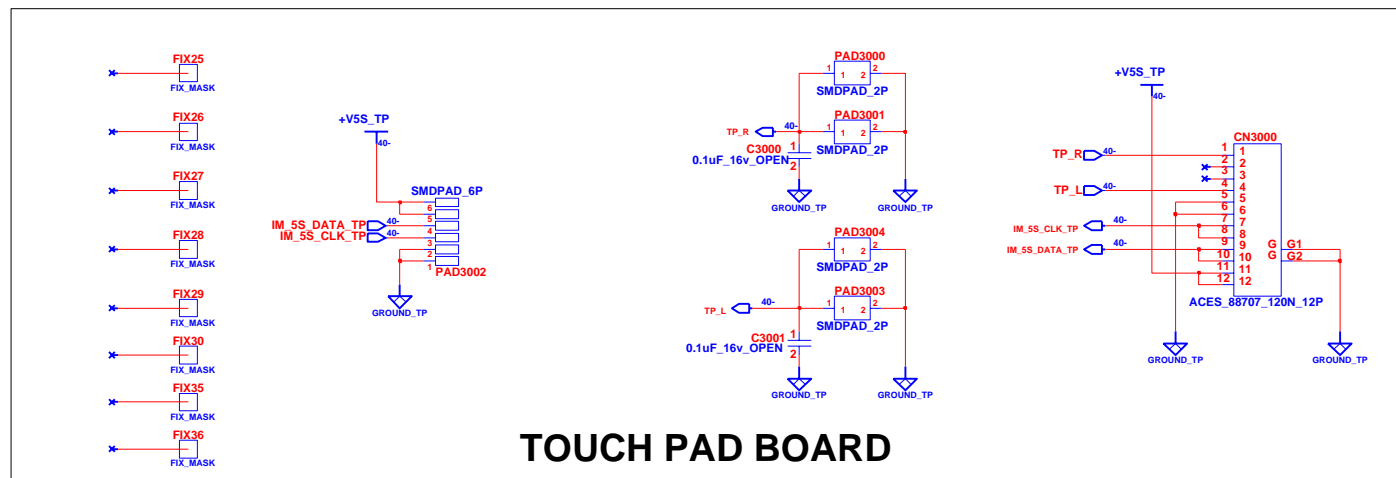
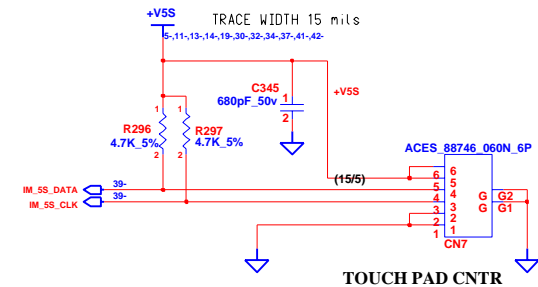
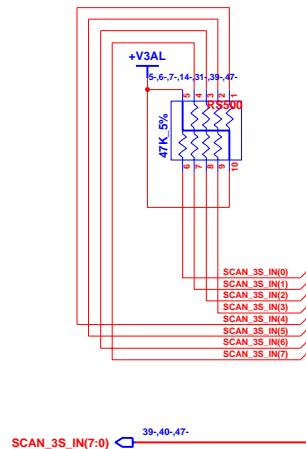


Close to USB CON

| INVENTEC | | | |
|------------------------------|------------|-------------------------|------------|
| TITLE DDD UMA USB CONN | | | |
| SIZE A3 | CODE CS | DOC. NUMBER Model No | REV AXI |
| CHANGE by Smit | | 15-Mar-2007 | |
| SHEET | | 38 OF 48 | |



KEYBOARD CONN



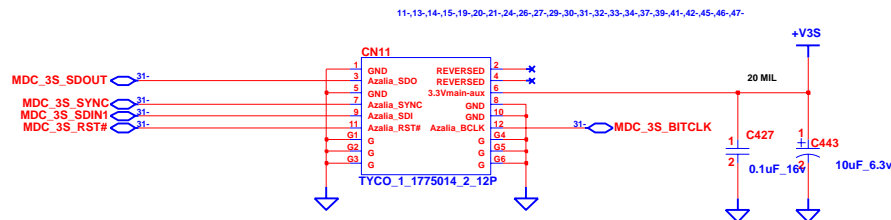
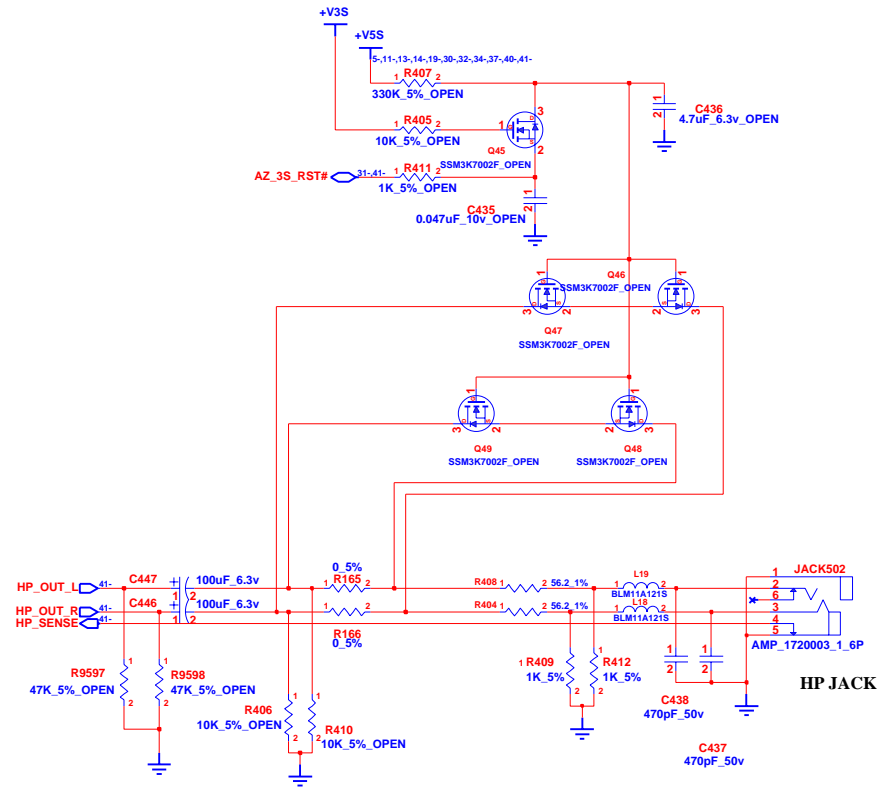
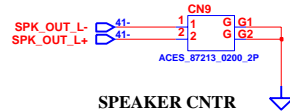
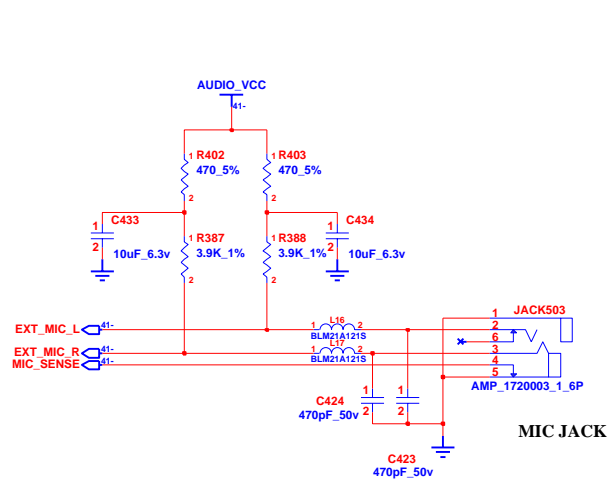
TOUCH PAD BOARD

INVENTEC

| | | | |
|----------------------------------|------------|-------------------------|------------|
| TITLE DDD UMA KB & TP CONN | | | |
| SIZE A3 | CODE CS | DOC. NUMBER Model No | REV AXI |

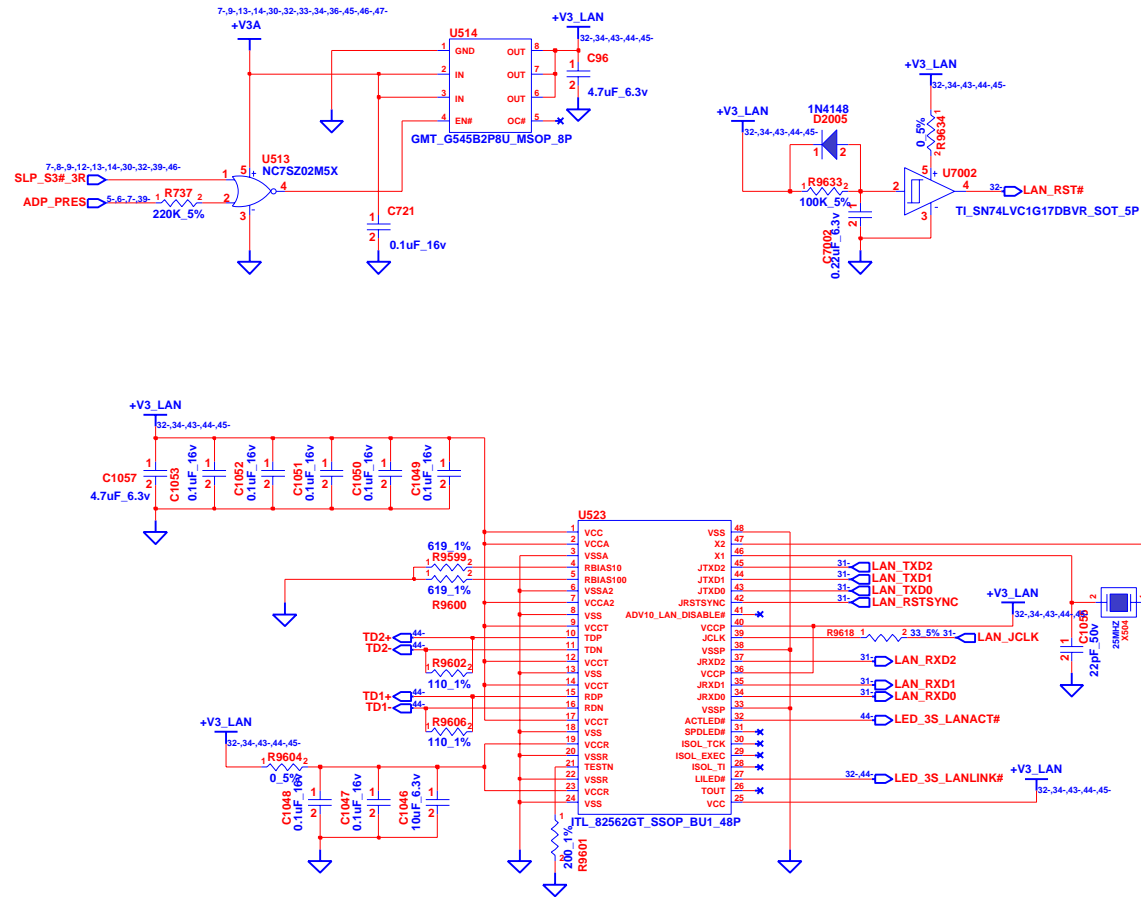
CHANGE by Smit 15-Mar-2007

SHEET 40 OF 48

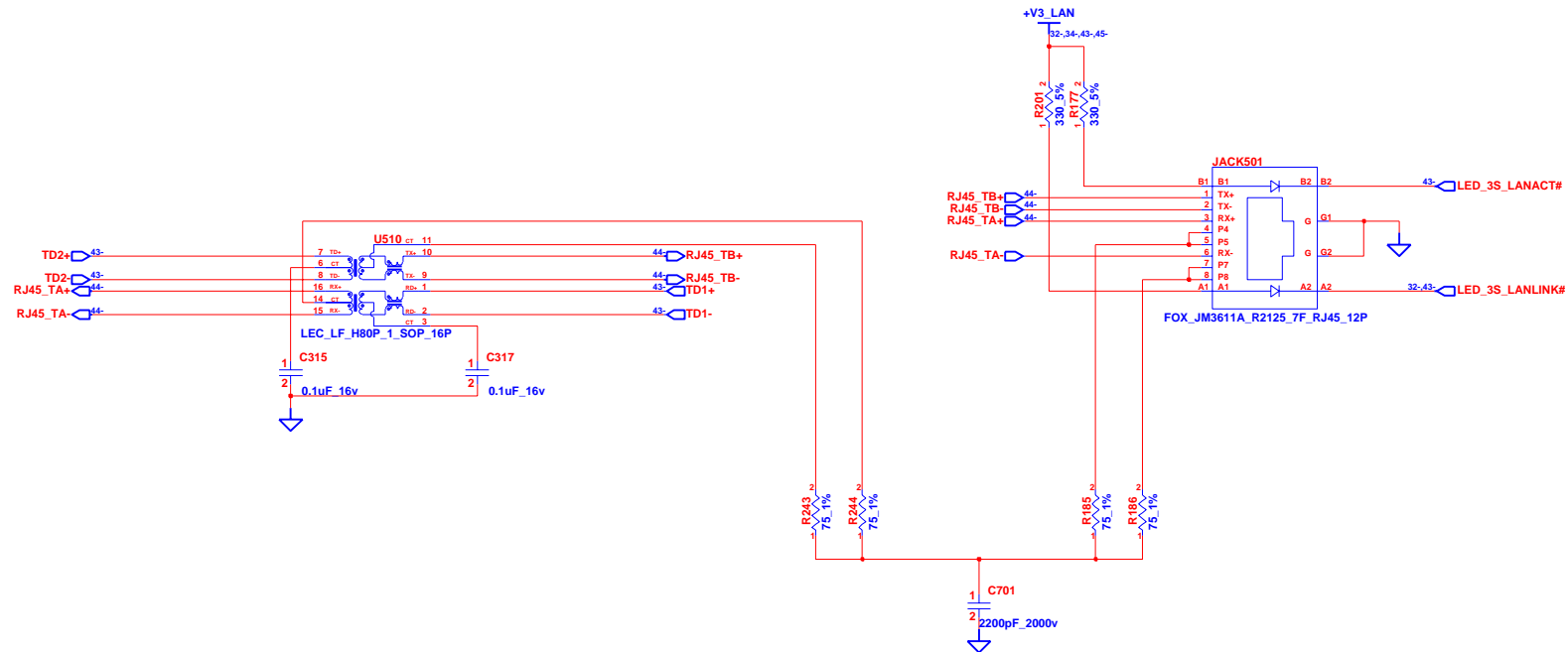


MDC CNTR

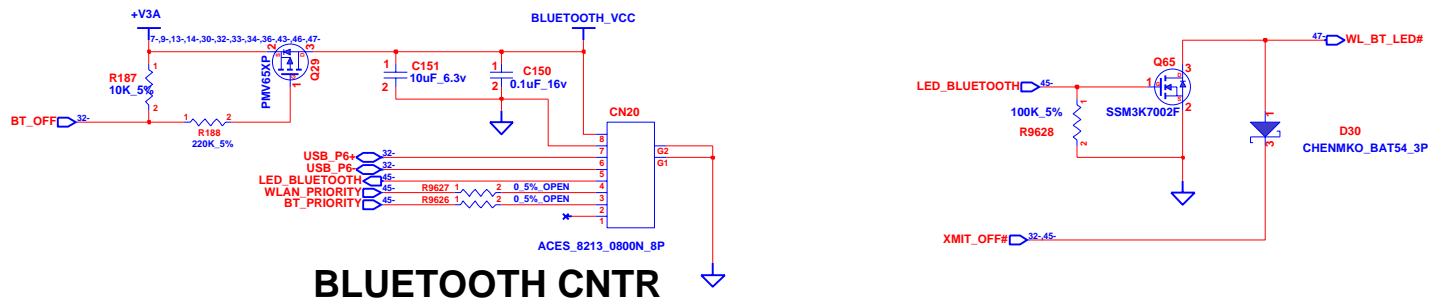
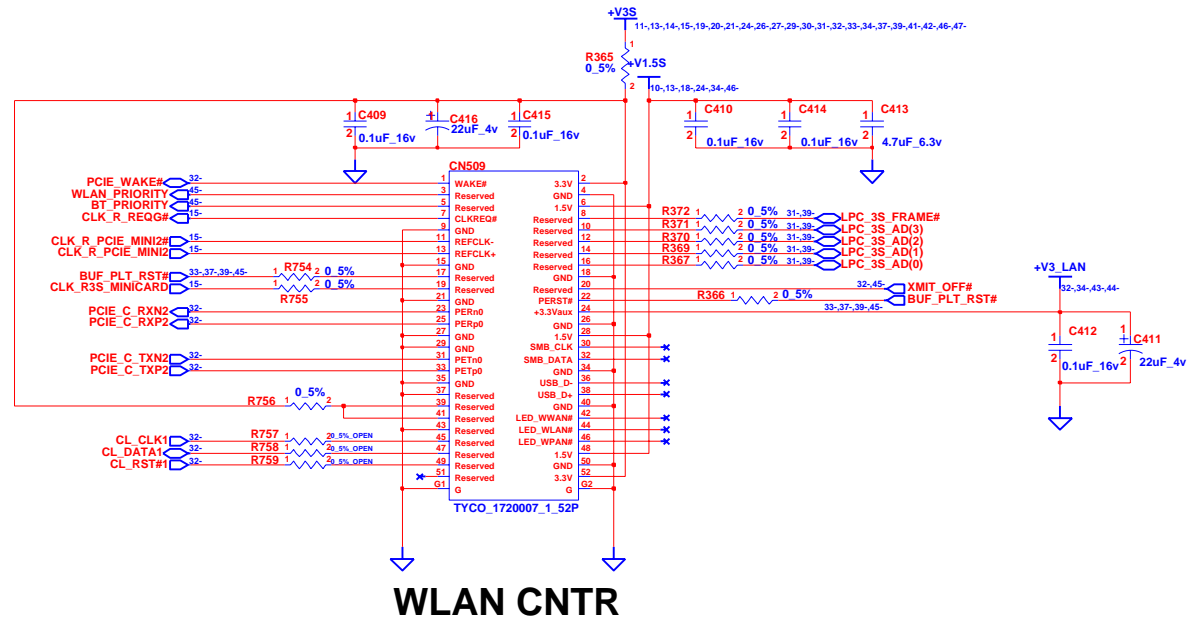
| INVENTEC | | | |
|------------------------------|------------|-------------------------|------------|
| TITLE DDD UMA MDC CNTR | | | |
| SIZE A3 | CODE CS | DOC. NUMBER Model No | REV AXI |
| CHANGE by Smit | | 15-Mar-2007 | |
| SHEET 42 | | OF 48 | |



| INVENTEC | | | |
|--|------------|-------------------------|------------|
| TITLE: DDD UMA NIC 10/100- CONTROLLER | | | |
| SIZE A3 | CODE CS | DOC. NUMBER Model No | REV AXI |
| CHANGE by Smit | | 28-Mar-2007 | |
| SHEET 43 | | OF 48 | |



| INVENTEC | | | |
|-------------------|------|-------------|-------------|
| TITLE | | | |
| DDD UMA | | | |
| NIC 10/100 - RJ45 | | | |
| SIZE | CODE | DOC. NUMBER | REV |
| A3 | CS | Model No | AXI |
| CHANGE by | | Smit | 26-Mar-2007 |
| SHEET | | 44 | OF 48 |



INVENTEC

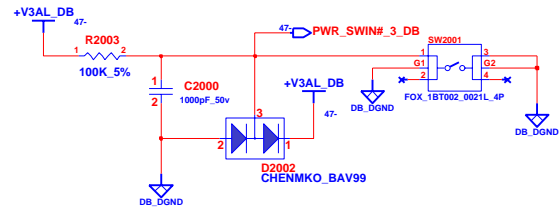
TITLE
**DDD UMA
MINICARD & BT CONN**

| SIZE | CODE | DOC. NUMBER | REV |
|------|------|-------------|-----|
| A3 | CS | Model No | AXI |

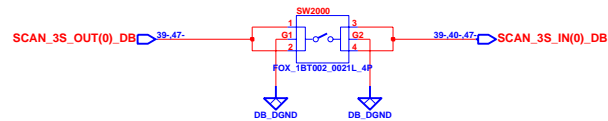
CHANGE by Smit 23-Mar-2007

SHEET 45 OF 48

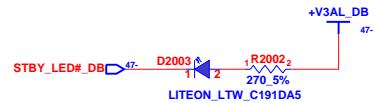
POWER BUTTON



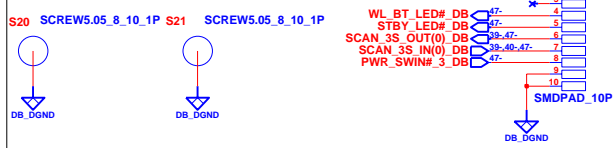
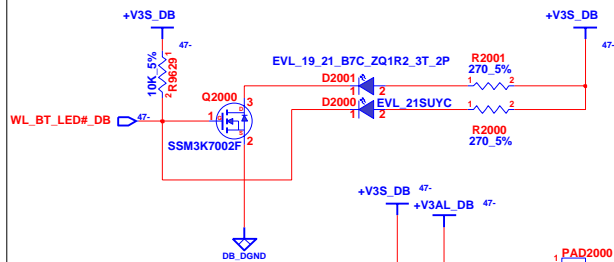
WIRELESS BUTTON



POWER / STANDBY LED

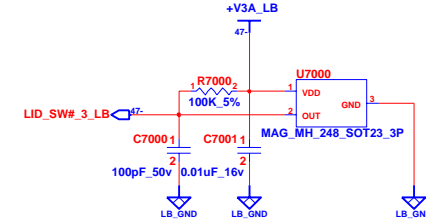


WLAN LED

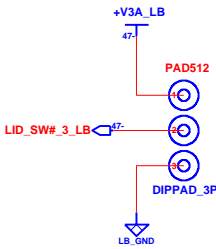


LED&SWITCH BOARD

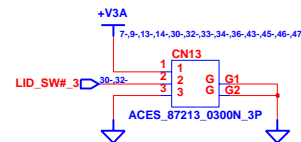
LID SWITCH



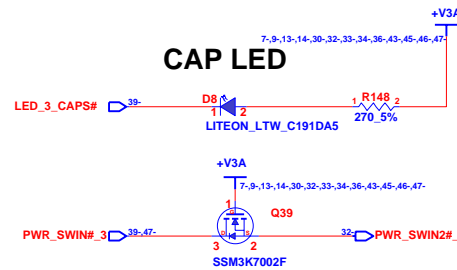
LID SW/B



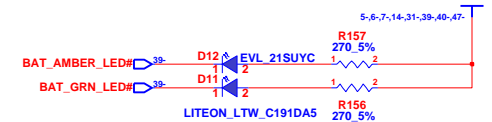
LID SW/B CNTR



CAP LED



BATTERY-CHARGE LED

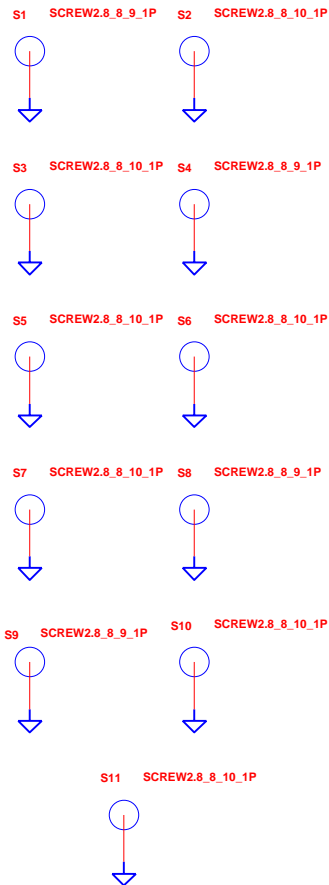
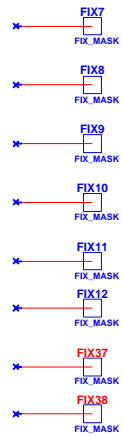


INVENTEC

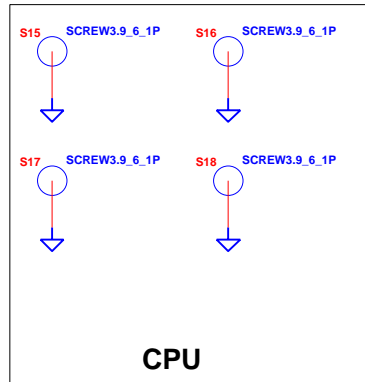
| | | | |
|----------------------------------|------------|-------------------------|------------|
| TITLE DDD UMA BUTTON & LED | | | |
| SIZE A3 | CODE CS | DOC. NUMBER Model No | REV AXI |

CHANGE by Smit 23-Mar-2007

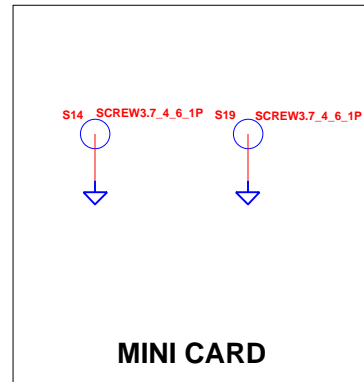
SHEET 47 OF 48



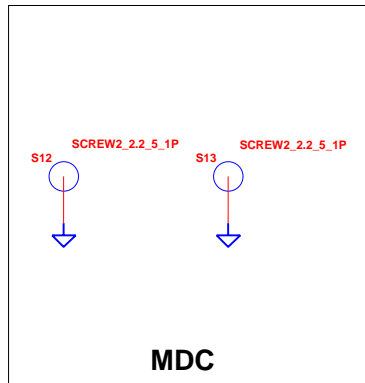
MAIN BOARD



CPU



MINI CARD



MDC

| INVENTEC | | | |
|---------------------------|------------|-------------------------|------------|
| TITLE DDD UMA SCREW | | | |
| SIZE A3 | CODE CS | DOC. NUMBER Model No | REV AXI |
| CHANGE by Smit | | 15-Mar-2007 | |
| SHEET 48 | | OF 48 | |