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ORION

VCC_PEG_BUILD

2007.12.03

DATE	CHANGE NO.	REV

DRAWER	EE	DATE	POWER	DATE	INVENTEC			
DESIGN					TITLE			
CHECK					ORION			
RESPONSIBLE								
SIZE = 3					SIZE	CODE	DOC. NUMBER	REV
FILE NAME : XXXX-XXXXXX-XX					A3	CS	Model No	X01
P/N	XXXXXXXXXXXX				SHEET 1 OF 65			

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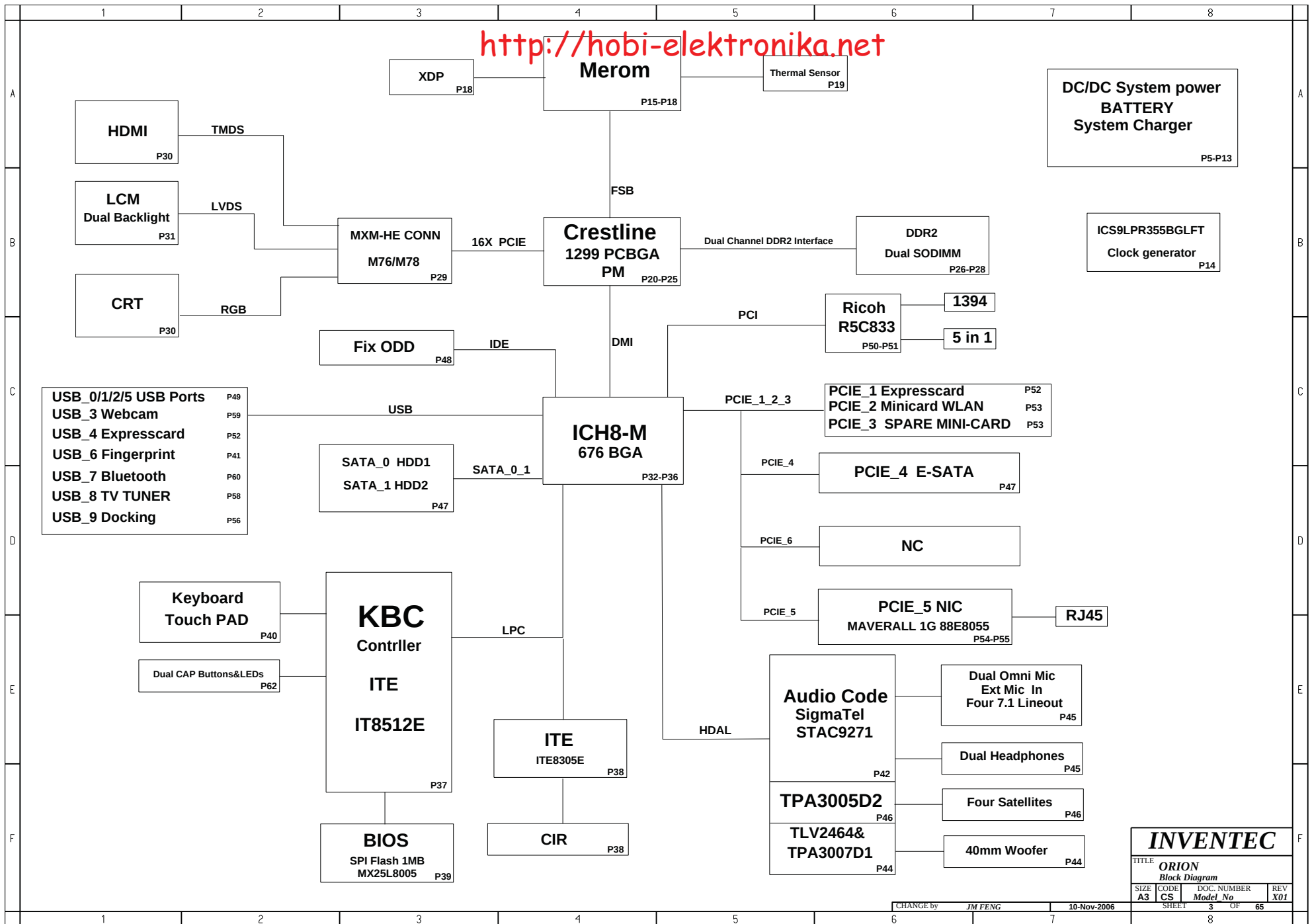
INVENTEC

TITLE
ORION

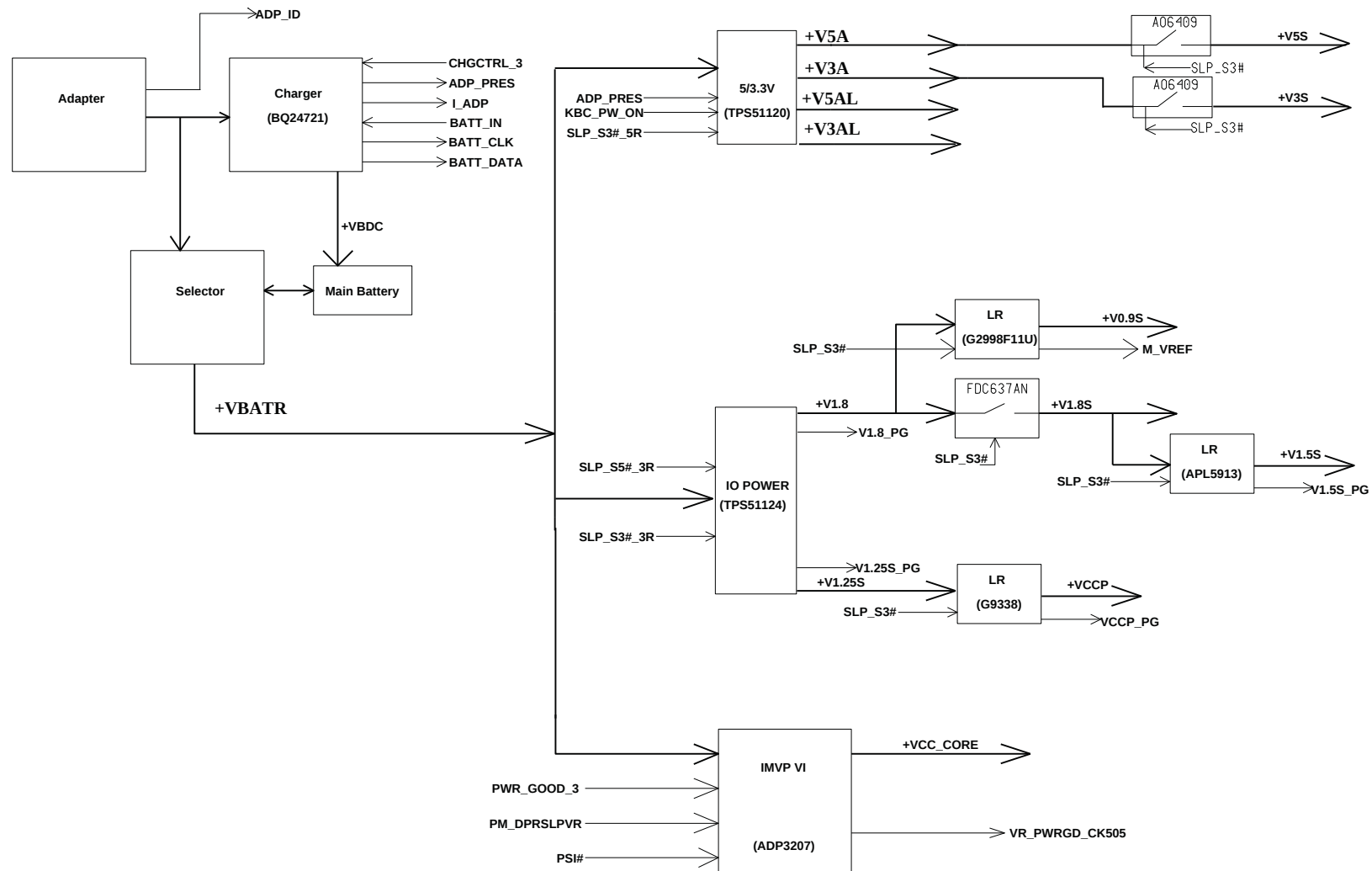
SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV X01
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CHANGE by **JM FENG** 12-Feb-2007

SHEET **2** OF **65**

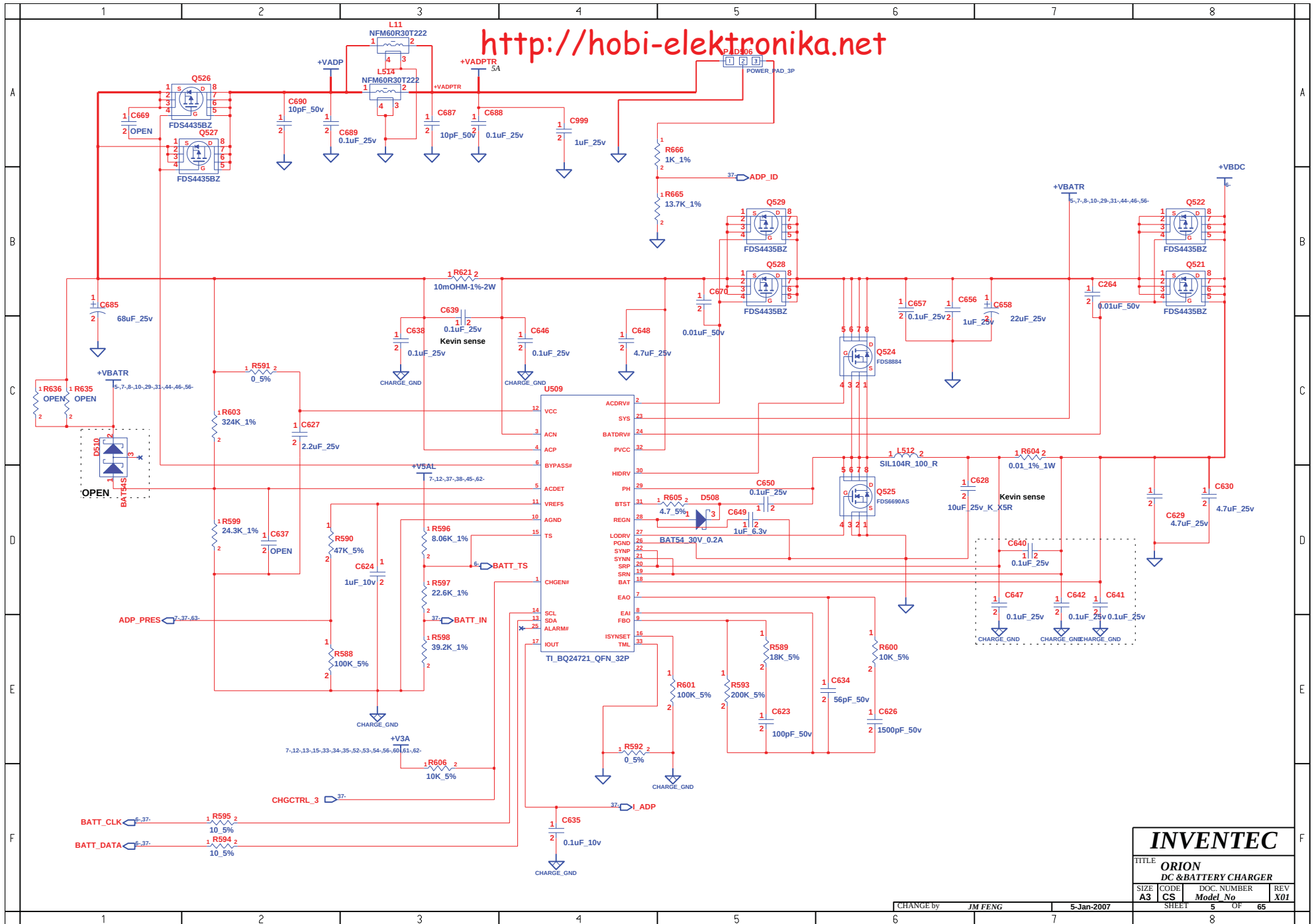


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INVENTEC			
TITLE ORION			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01
CHANGE by JM FENG		1-Nov-2006	
SHEET 4		OF 65	

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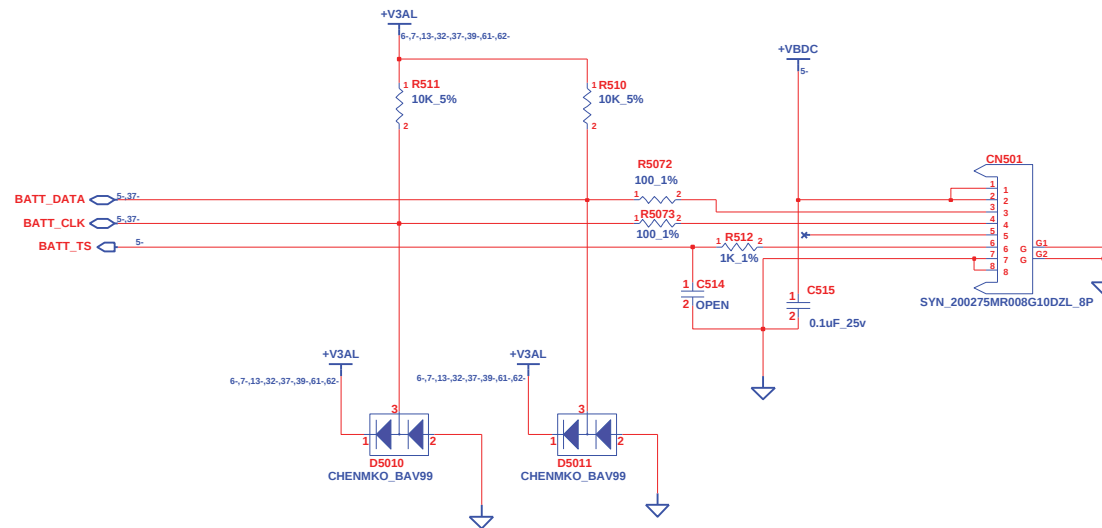
INVENTEC

TITLE			
ORION DC & BATTERY CHARGER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by JM FENG 5-Jan-2007

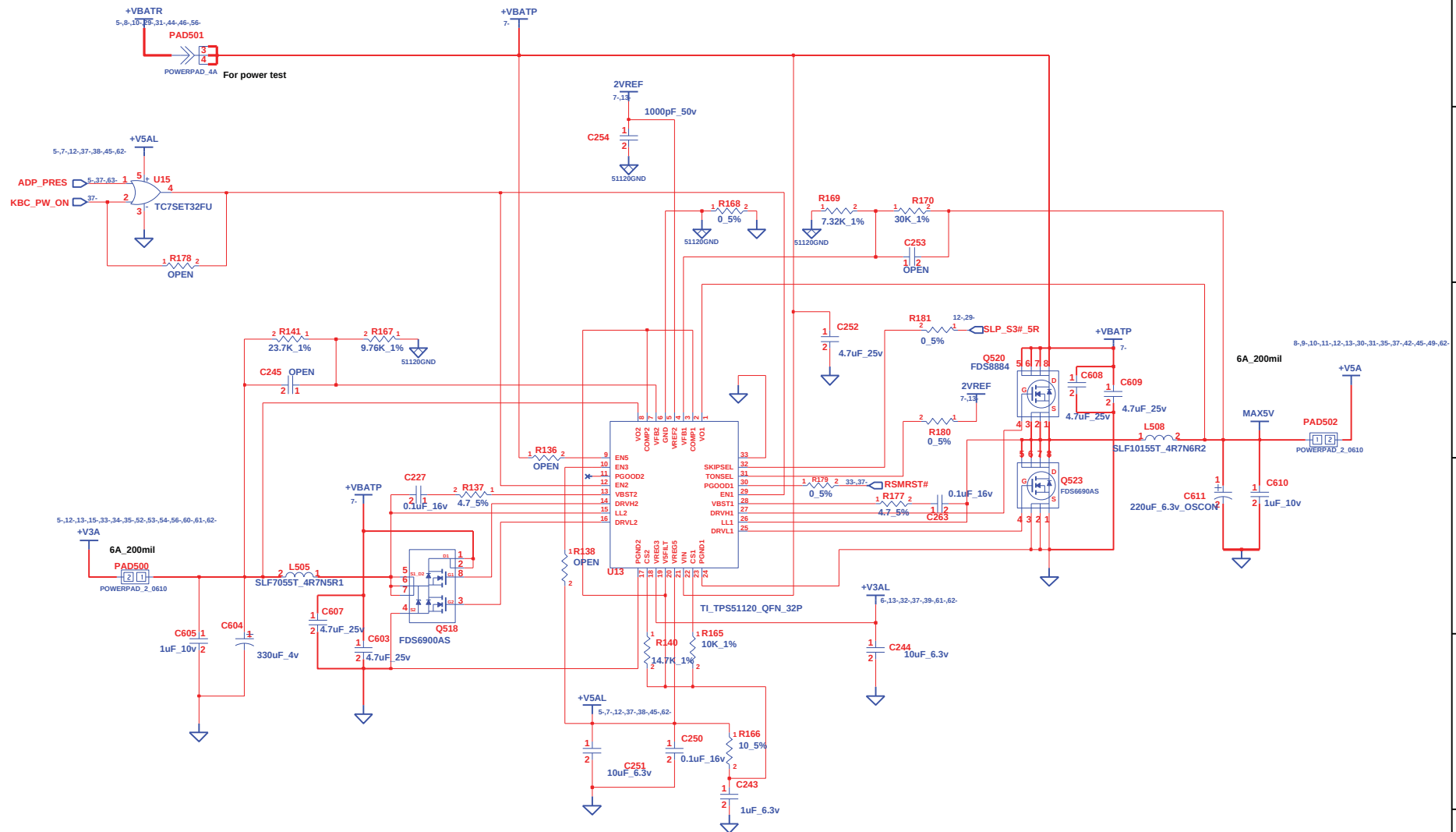
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INVENTEC			
TITLE ORION BATTERY CONN			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01
CHANGE by JM FENG		5-Jan-2007	
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1		8	

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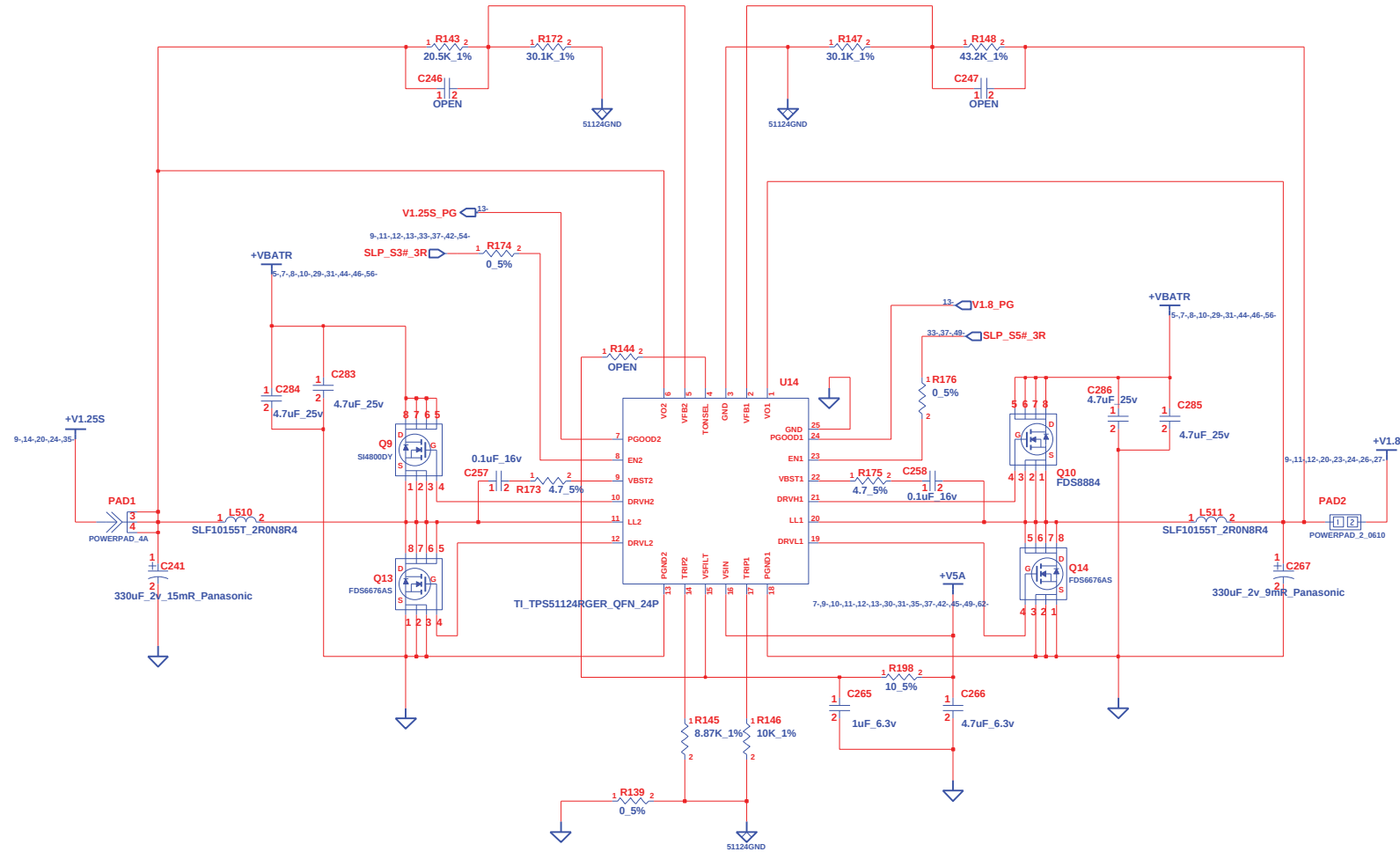
INVENTEC

TITLE			
ORION			
SYSTEM POWER(3V/5V)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by JM FENG 21-Jun-2007

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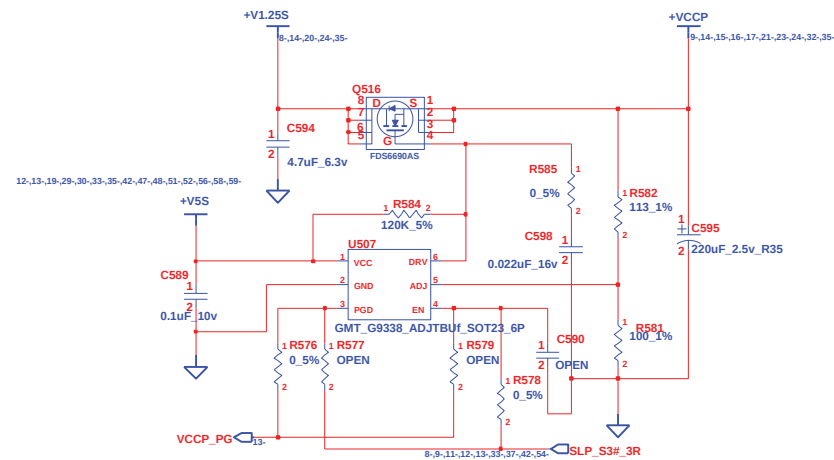
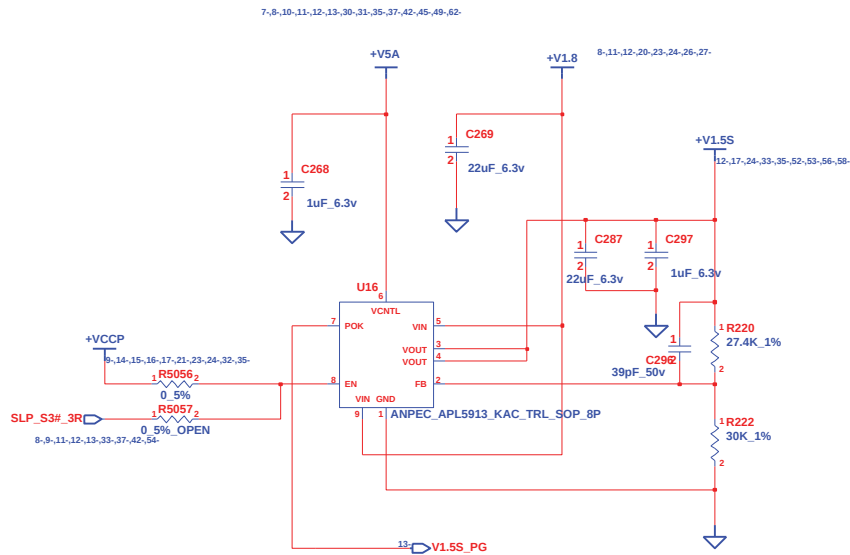
INVENTEC

TITLE			
ORION			
SYSTEM POWER(+V1.8/+V1.25S)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by JM FENG 16-Feb-2007

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INVENTEC

TITLE
ORION
SYSTEM POWER(+V1.5S/+VCCP)

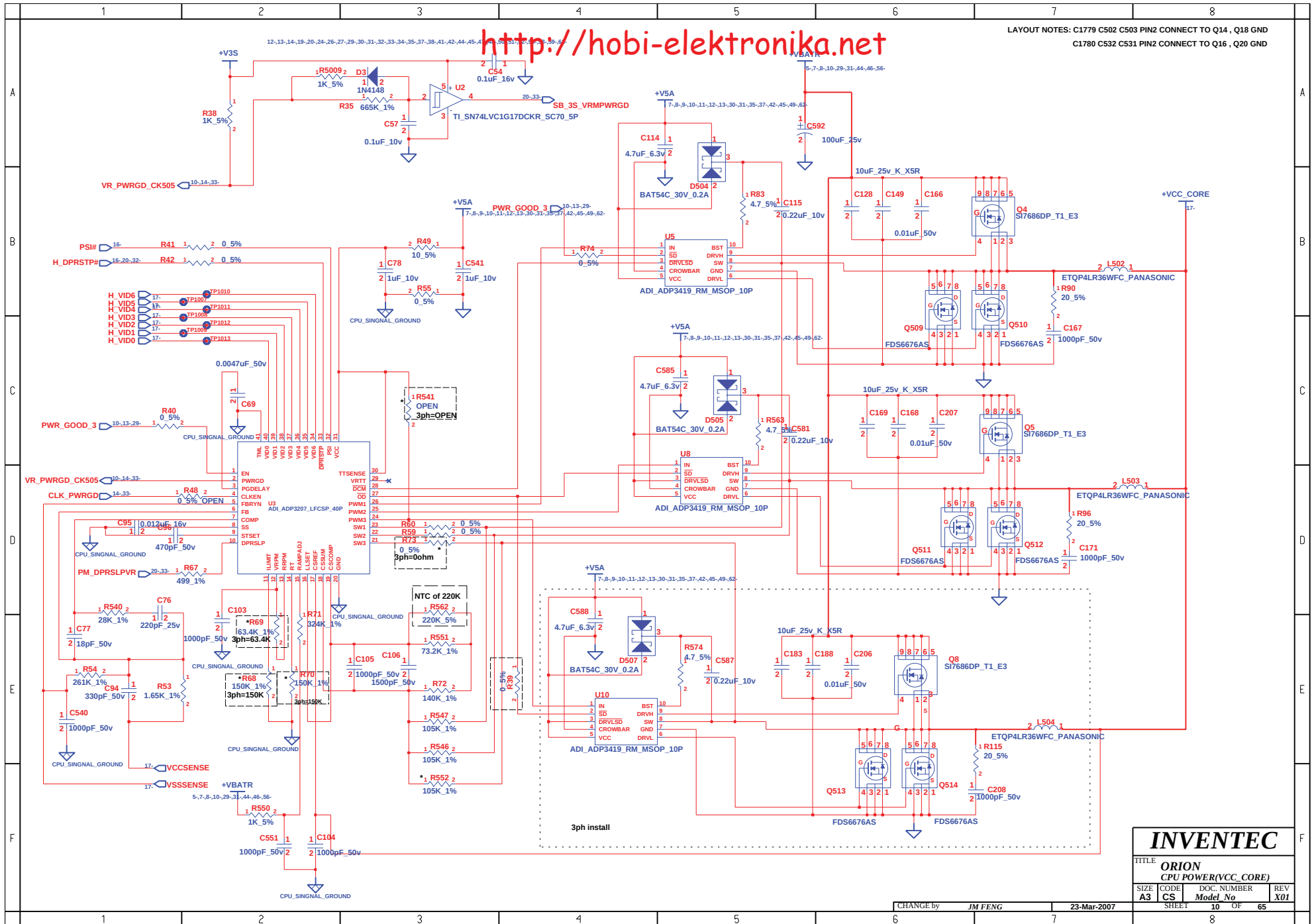
SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01
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CHANGE by **JM FENG** 16-May-2007

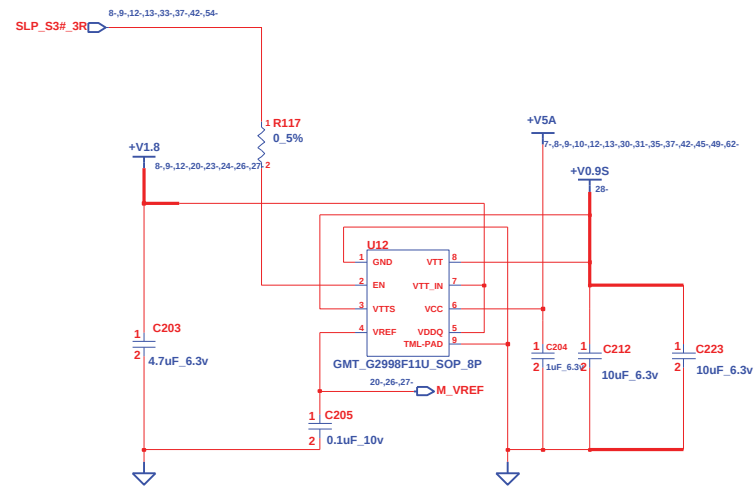
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LAYOUT NOTES: C1779 C502 C503 PIN2 CONNECT TO Q14 , Q18 GND
C1780 C532 C531 PIN2 CONNECT TO Q16 , Q20 GND



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NOTE: DDR2 REGULATOR

INVENTEC

TITLE **ORION**
DDR TERMINATION VOLTAGE

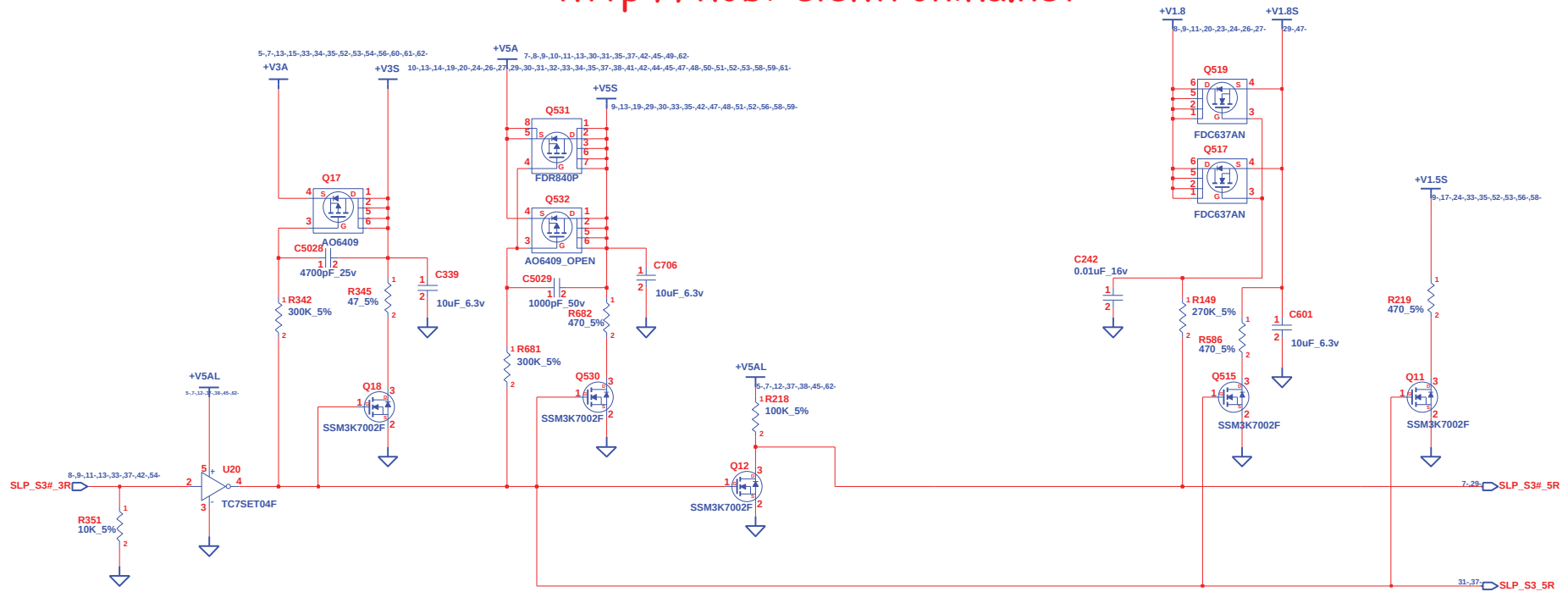
SIZE **A3** CODE **CS** DOC. NUMBER **Model No** REV **X01**

CHANGE by **JM FENG** 27-Oct-2006

SHEET **11** OF **65**

8

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INVENTEC

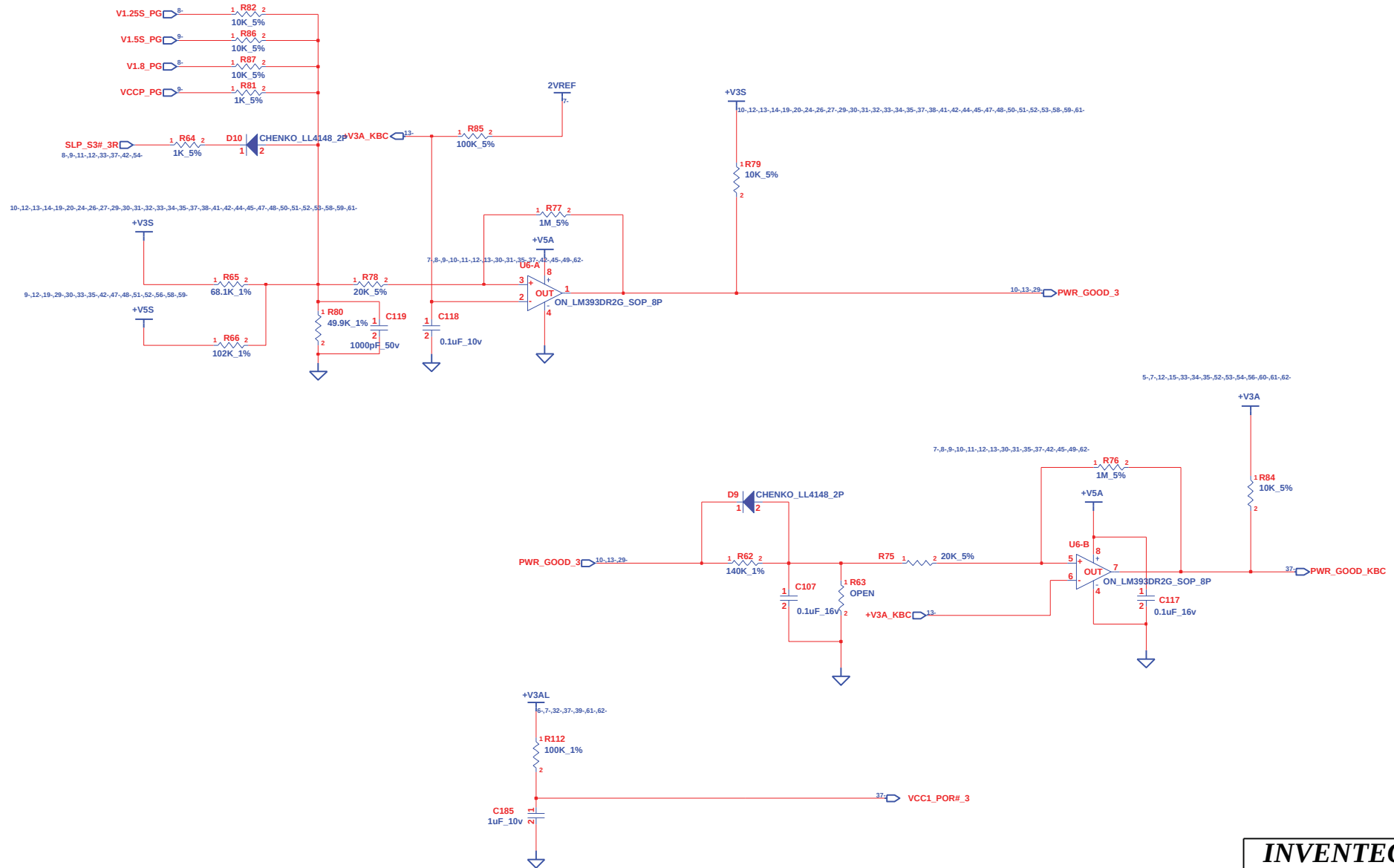
TITLE
**ORION
POWER(SLEEP)**

SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01
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CHANGE by **JM FENG** 16-May-2007

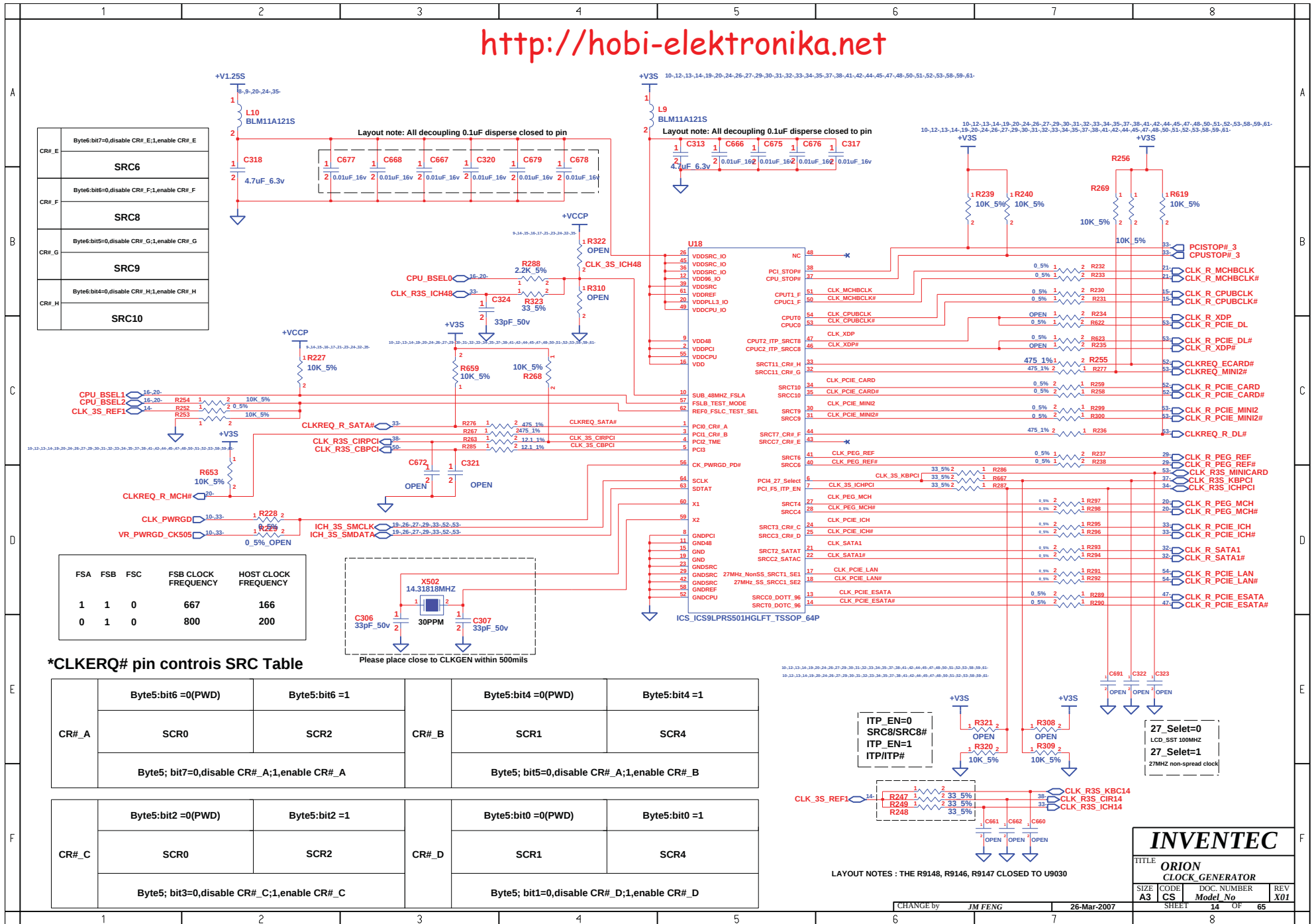
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INVENTEC			
TITLE ORION POWER(SEQUENCE)			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01
CHANGE by JM FENG		25-Oct-2006	
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8			

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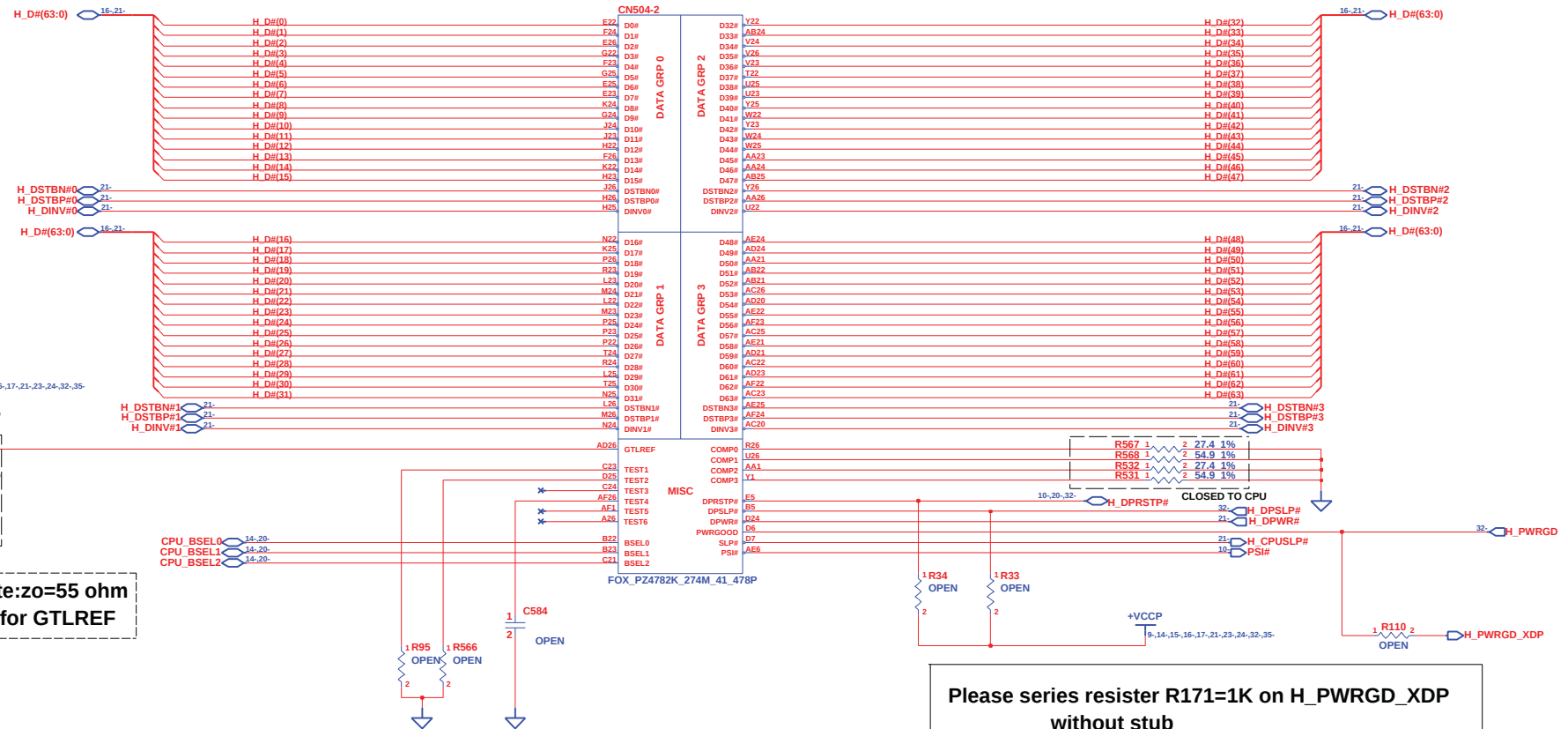
GMCH **CPU** **ICH8** **+VCCP**

PM_THRMTRIP# should be T at CPU

INVENTEC			
TITLE ORION MEROM-1			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET 15		OF 65	

CHANGE by JM FENG 23-Apr-2007

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Layout note:zo=55 ohm
0.5" max for GTLREF

Please series resistor R171=1K on H_PWRGD_XDP
without stub

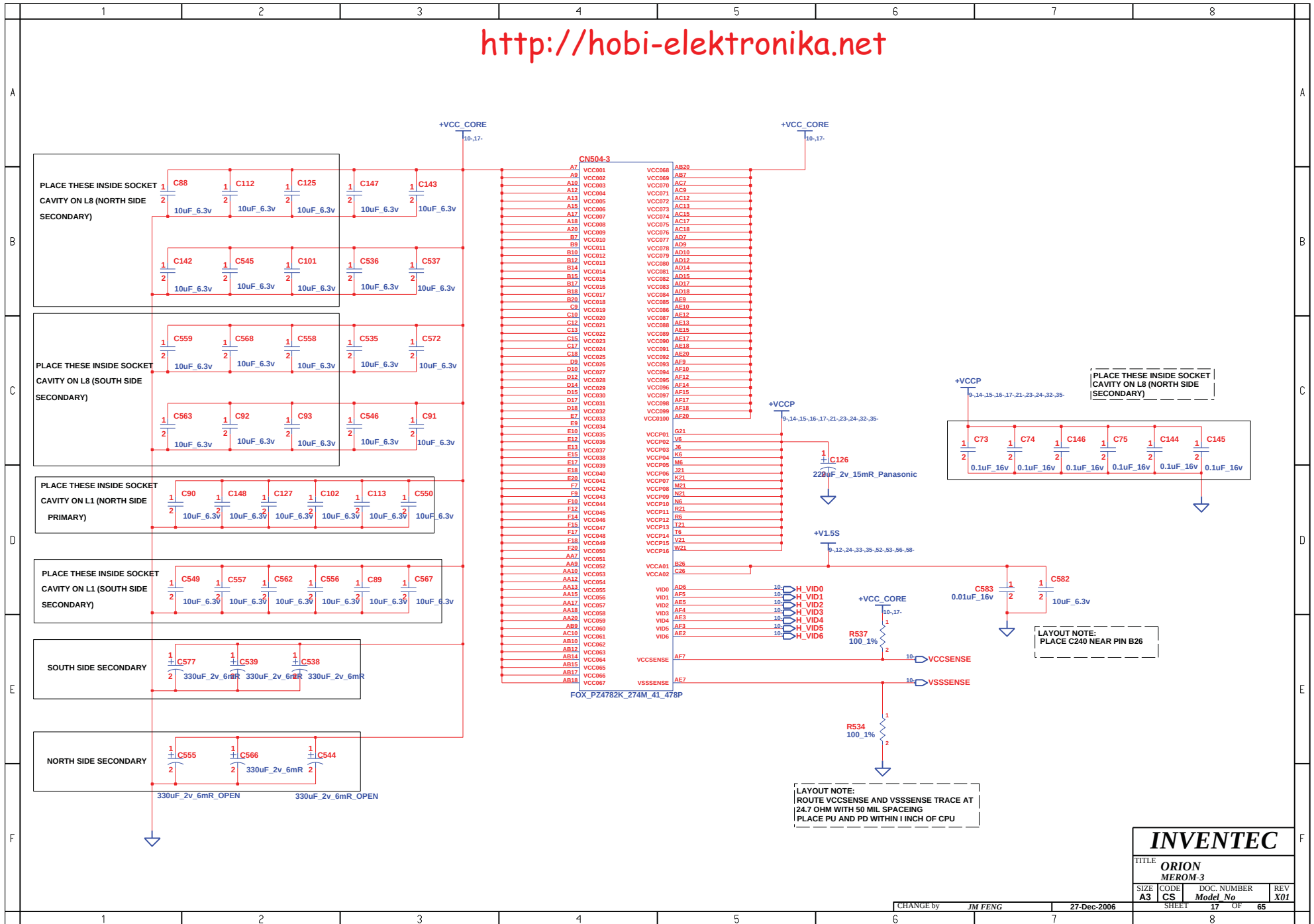
INVENTEC

TITLE			
ORION MEROM-2			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by JM FENG 25-Oct-2006

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INVENTEC

TITLE			
ORION			
MEROM-3			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
CHANGE by		27-Dec-2006	
SHEET		17	OF 65

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CN504-4

A4 VS5001
A8 VS5002
A11 VS5003
A14 VS5004
A16 VS5005
A19 VS5006
A23 VS5007
AF2 VS5008
B6 VS5009
B8 VS5010
B11 VS5011
B13 VS5012
B16 VS5013
B19 VS5014
B21 VS5015
B24 VS5016
C5 VS5017
C8 VS5018
C11 VS5019
C14 VS5020
C16 VS5021
C19 VS5022
C2 VS5023
C22 VS5024
C25 VS5025
D1 VS5026
D4 VS5027
D8 VS5028
D11 VS5029
D13 VS5030
D16 VS5031
D19 VS5032
D23 VS5033
D26 VS5034
E3 VS5035
E6 VS5036
E8 VS5037
E11 VS5038
E14 VS5039
E16 VS5040
E19 VS5041
E21 VS5042
E24 VS5043
F3 VS5044
F8 VS5045
F11 VS5046
F13 VS5047
F16 VS5048
F19 VS5049
F2 VS5050
F22 VS5051
F26 VS5052
G4 VS5053
G11 VS5054
G23 VS5055
G26 VS5056
H3 VS5057
H6 VS5058
H11 VS5059
H24 VS5060
J2 VS5061
J5 VS5062
J22 VS5063
J25 VS5064
K1 VS5065
K4 VS5066
K23 VS5067
K26 VS5068
L3 VS5069
L8 VS5070
L21 VS5071
L24 VS5072
M2 VS5073
M5 VS5074
M22 VS5075
M25 VS5076
N4 VS5077
N4 VS5078
N23 VS5079
N26 VS5080
P3 VS5081

VS5082
VS5083
VS5084
VS5085
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VS5160
VS5161
VS5162
VS5163

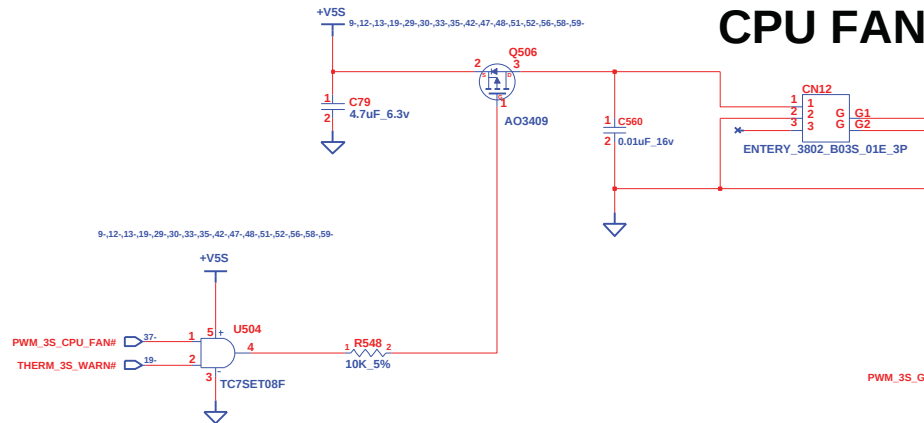
P6
P21
P24
R2
R5
R22
R25
T1
T4
T23
T26
U3
U6
U21
U24
V2
V5
V22
V25
W1
W4
W23
W26
Y3
Y6
Y21
Y24
AA2
AA5
AA8
AA11
AA14
AA16
AA19
AA22
AA25
AB1
AB4
AB8
AB11
AB13
AB16
AB19
AB23
AB26
AC3
AC5
AC8
AC11
AC14
AC16
AC19
AC21
AC24
AD2
AD5
AD8
AD11
AD13
AD16
AD19
AD22
AD25
AE1
AE4
AE8
AE11
AE14
AE16
AE19
AE23
AE26
A2
A5
AF8
AF11
AF13
AF16
AF19
AF21
A25
AF26

FOX_PZ4782K_274M_41_478P

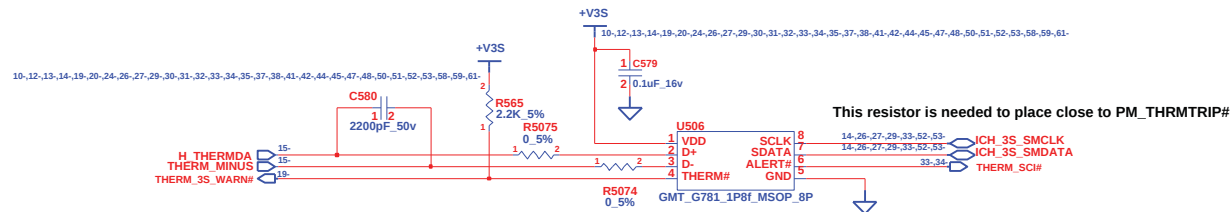
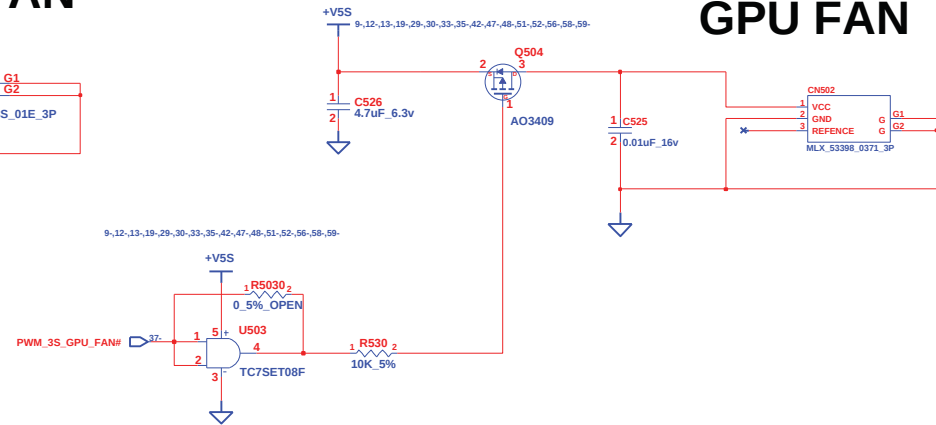
INVENTEC			
TITLE ORION MEROM-4			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01
CHANGE by JM FENG		9-Feb-2007	
SHEET 18		OF 65	

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CPU FAN



GPU FAN



This resistor is needed to place close to PM_THRMTRIP#

LAYOUT NOTES: PUT THE THERMAL SENSOR CLOSE TO CPU

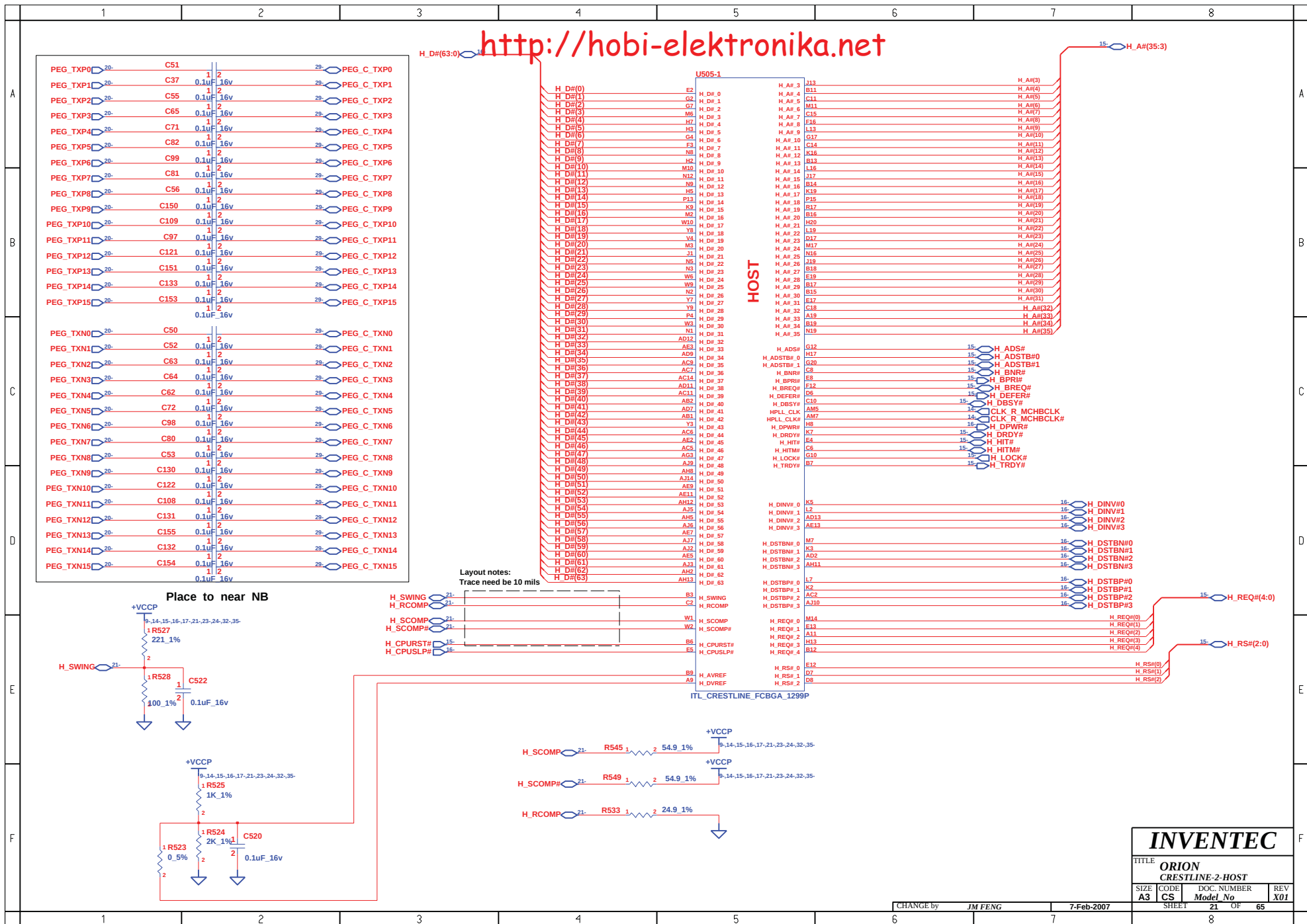
INVENTEC

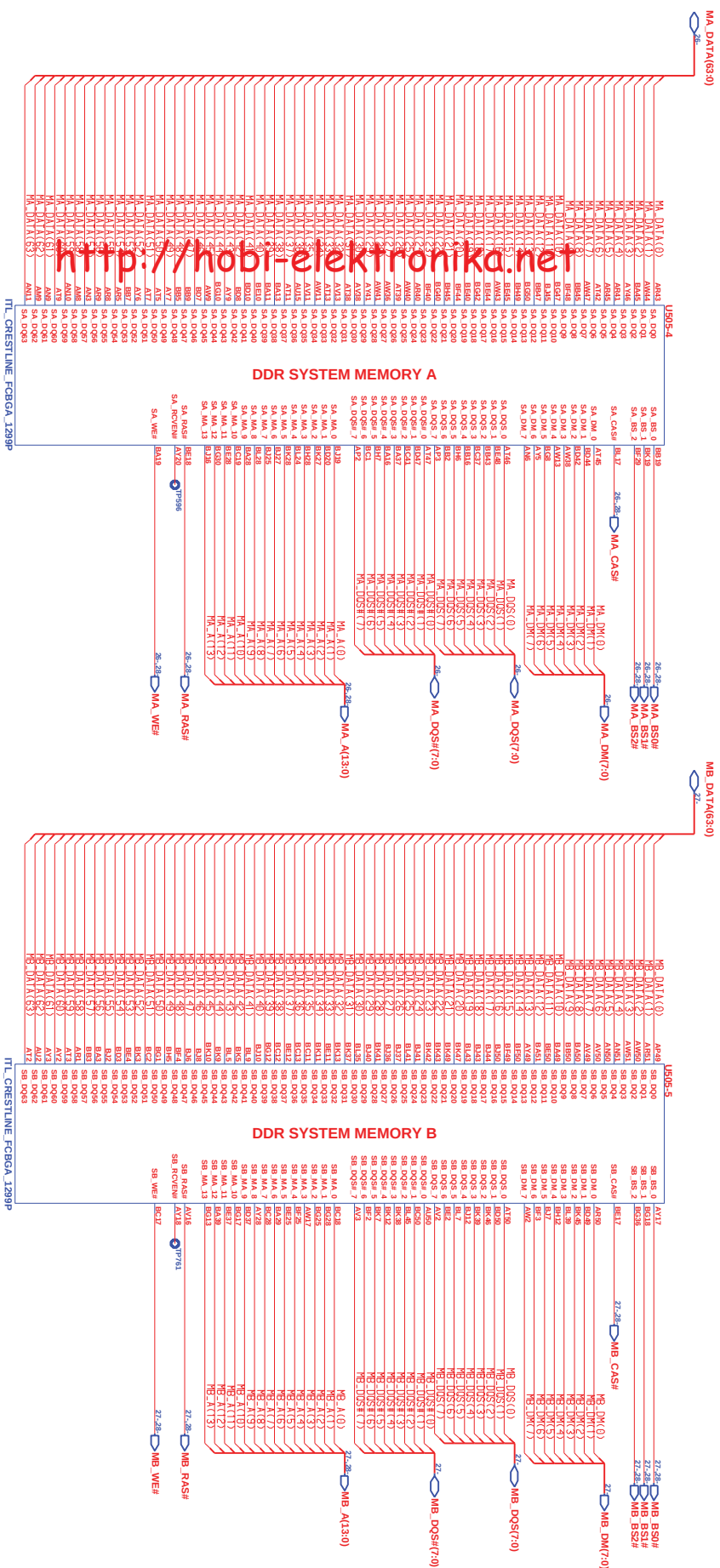
TITLE			
ORION			
THERMAL&FAN CONTROLLER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by JM FENG 16-May-2007

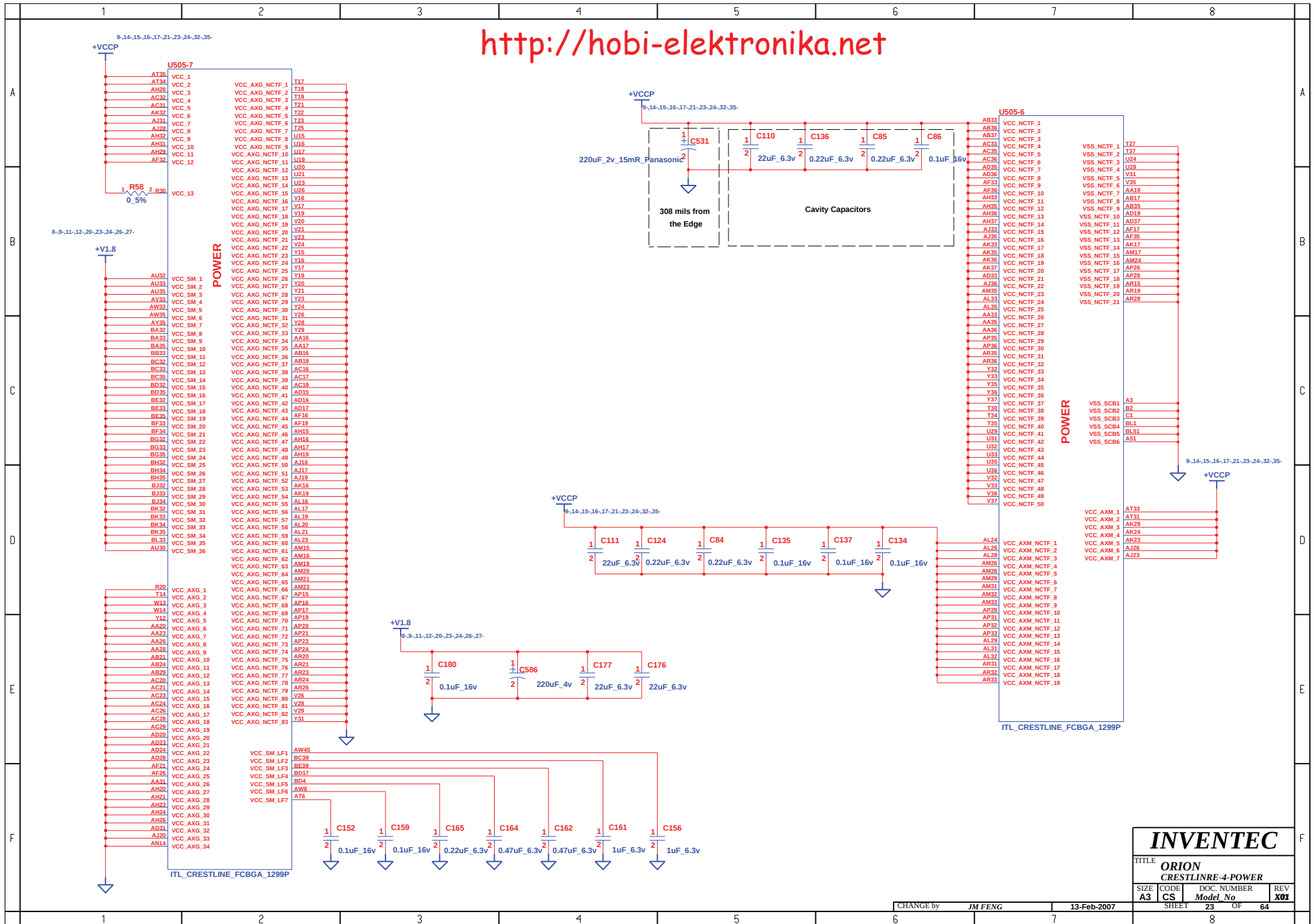
SHEET 19 OF 65

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INVENTEC

TITLE
ORION
CRESTLINRE-4-POWER

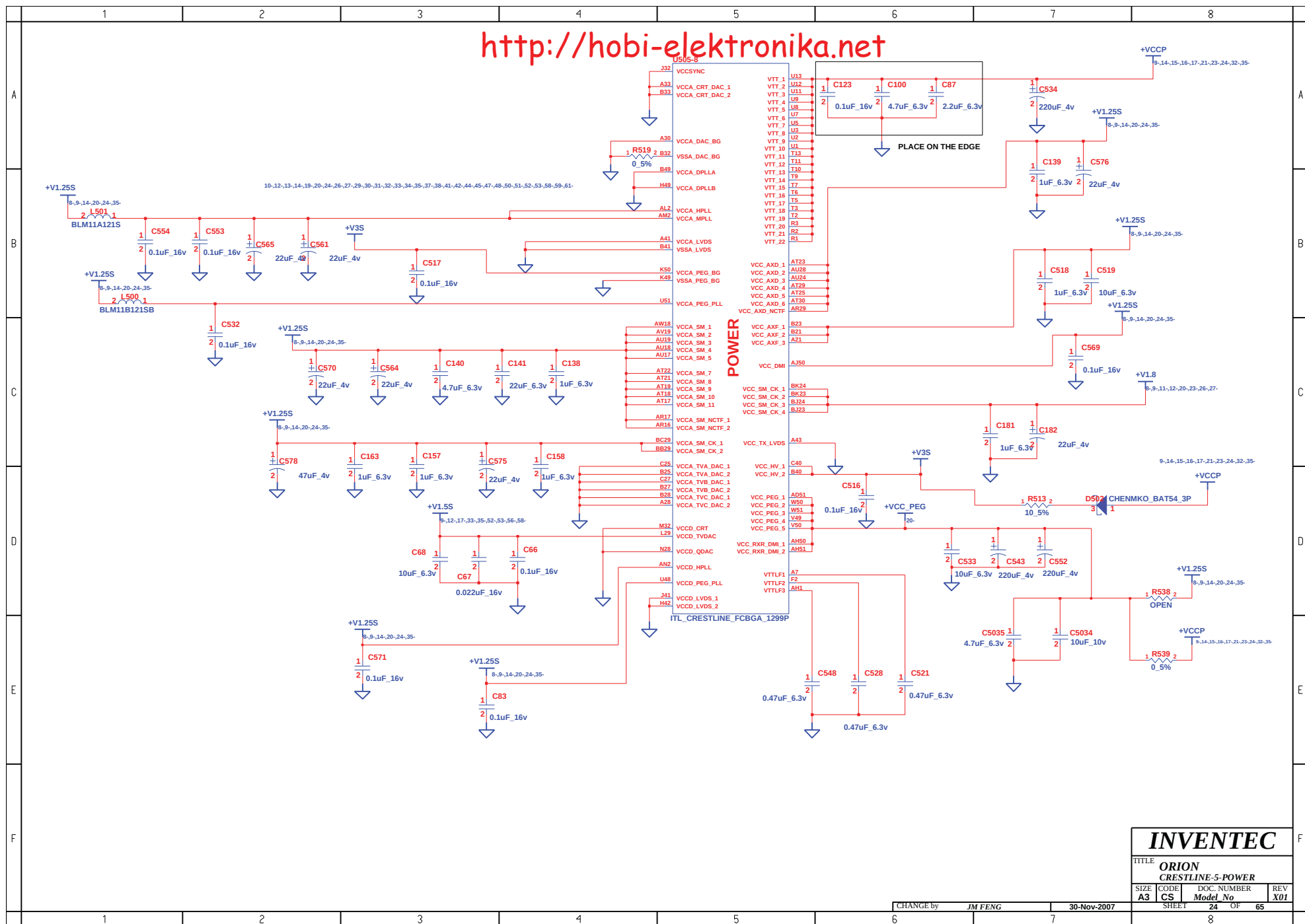
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

SHEET 23 OF 64

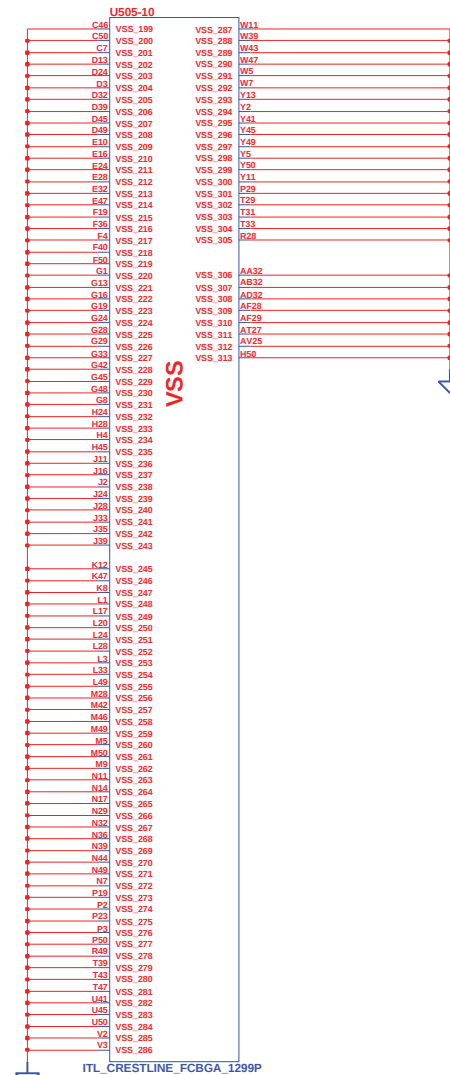
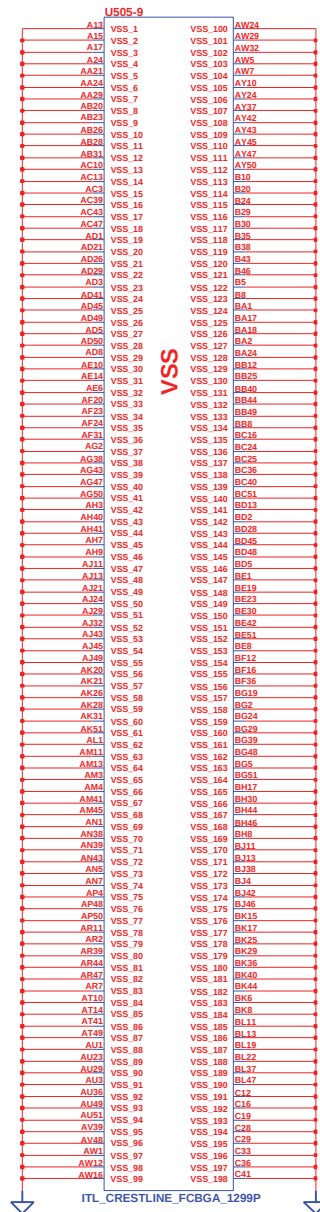
CHANGE by JM FENG

13-Feb-2007

8



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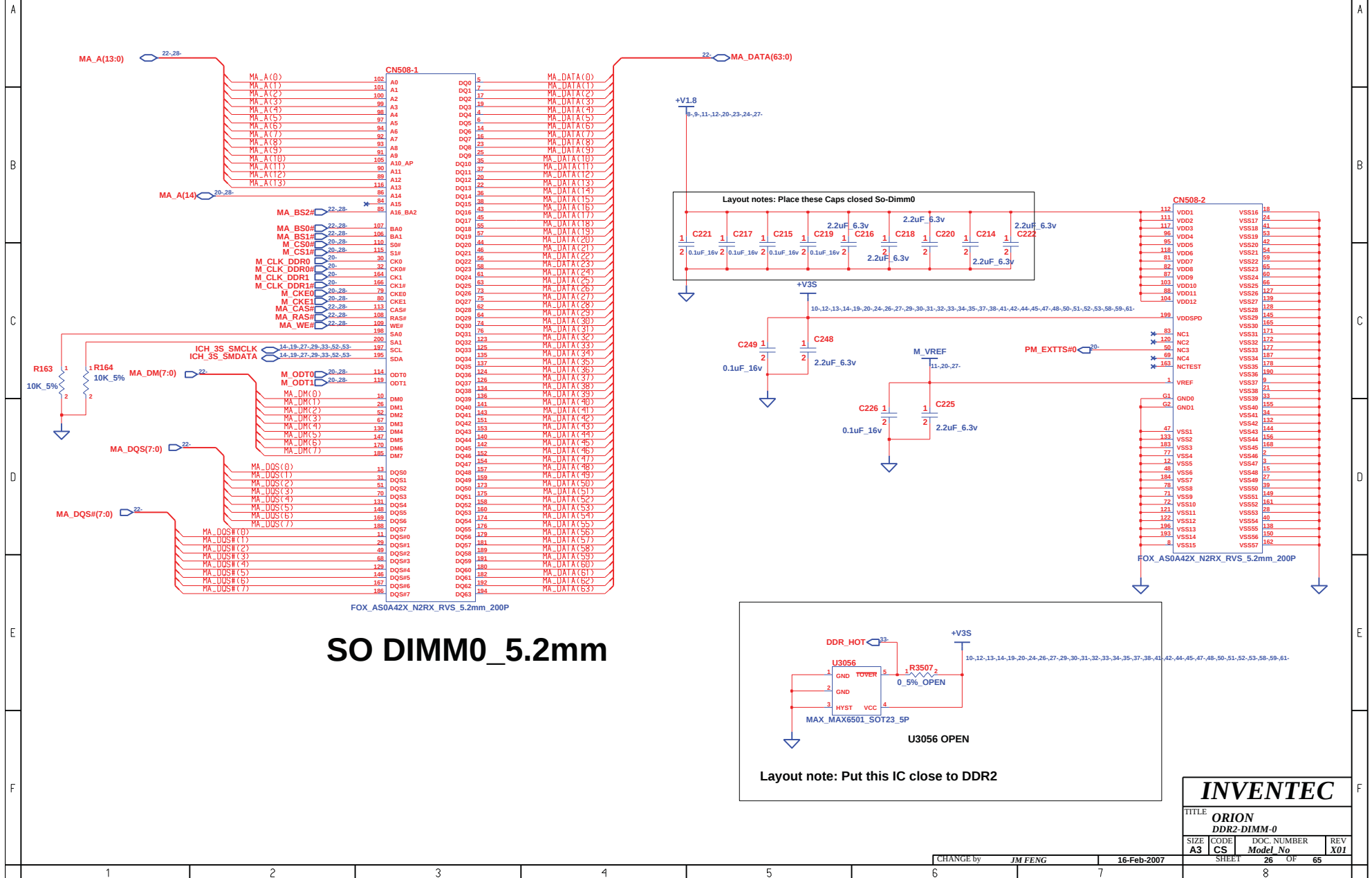


INVENTEC

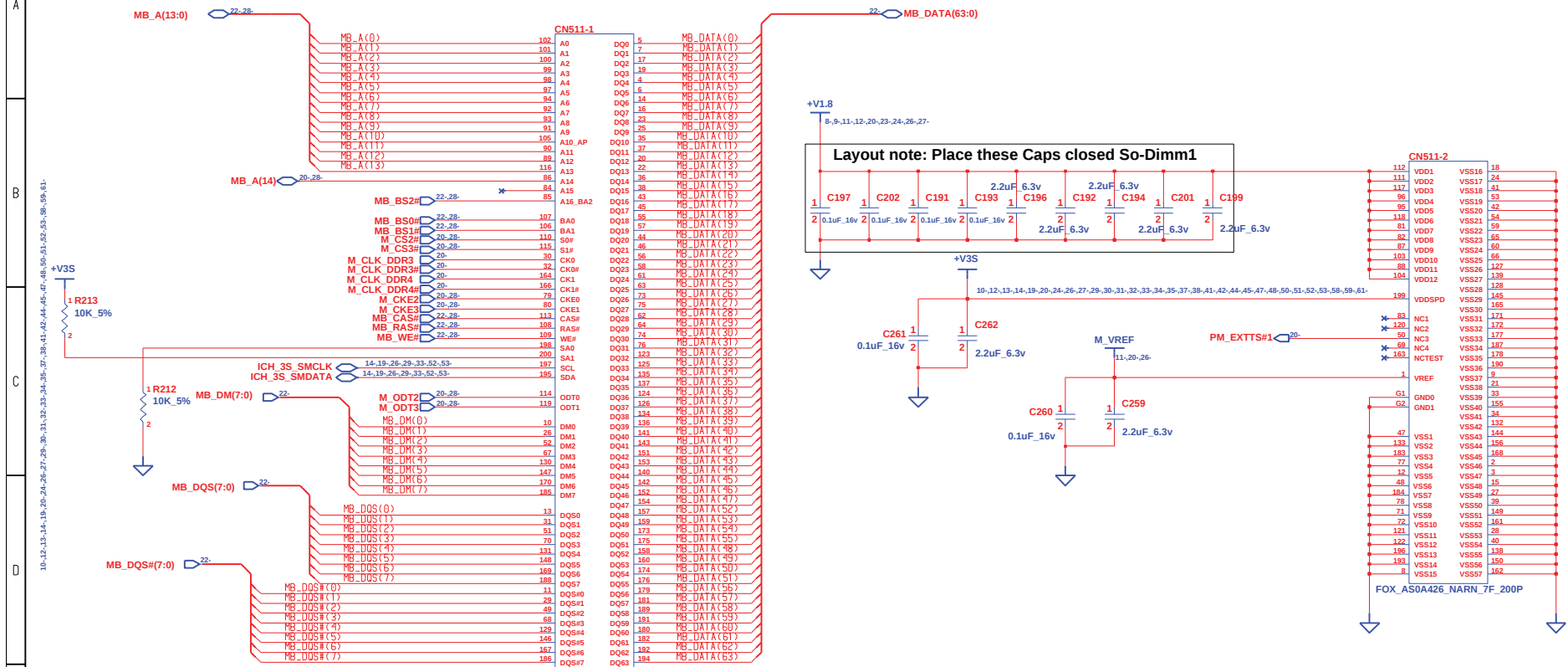
TITLE			
ORION			
CRESTLINE-6-POWER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		25	OF 64

CHANGE by JM FENG 11-Sep-2006

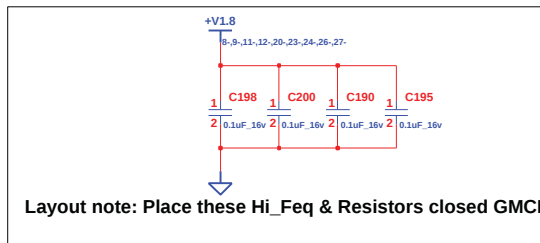
<http://hobi-elektronika.net>



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SO DIMM1 9.2mm



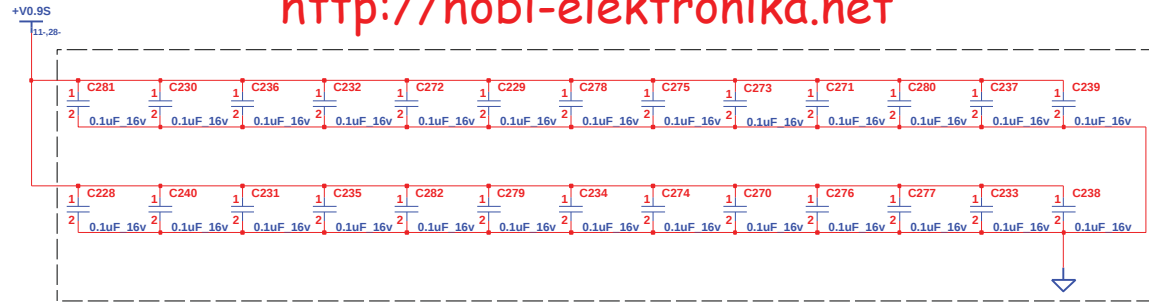
INVENTEC

TITLE			
ORION			
DDR2-DIMM-1			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		27	OF 65

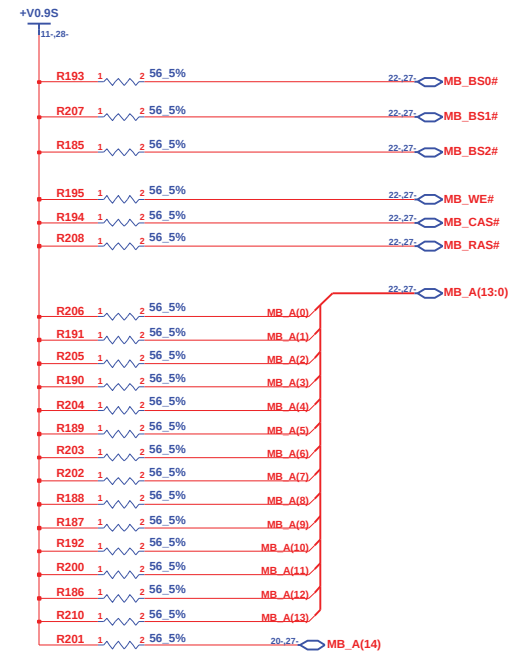
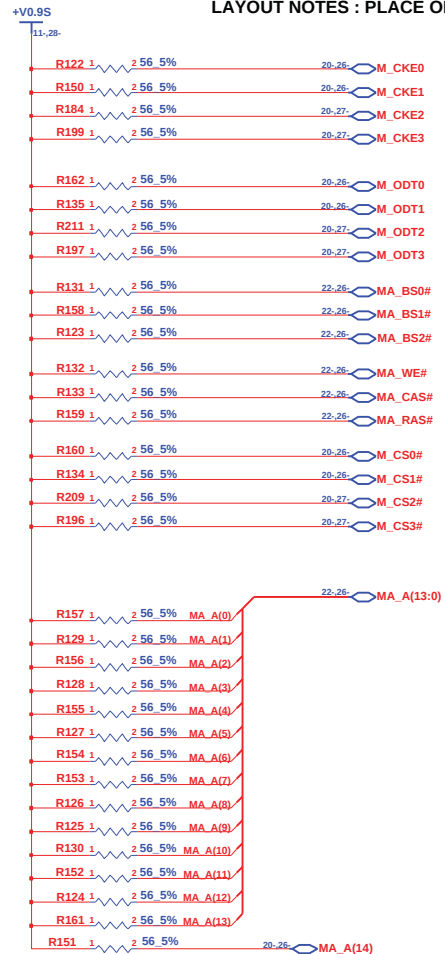
CHANGE by JM FENG 11-Dec-2006

8

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



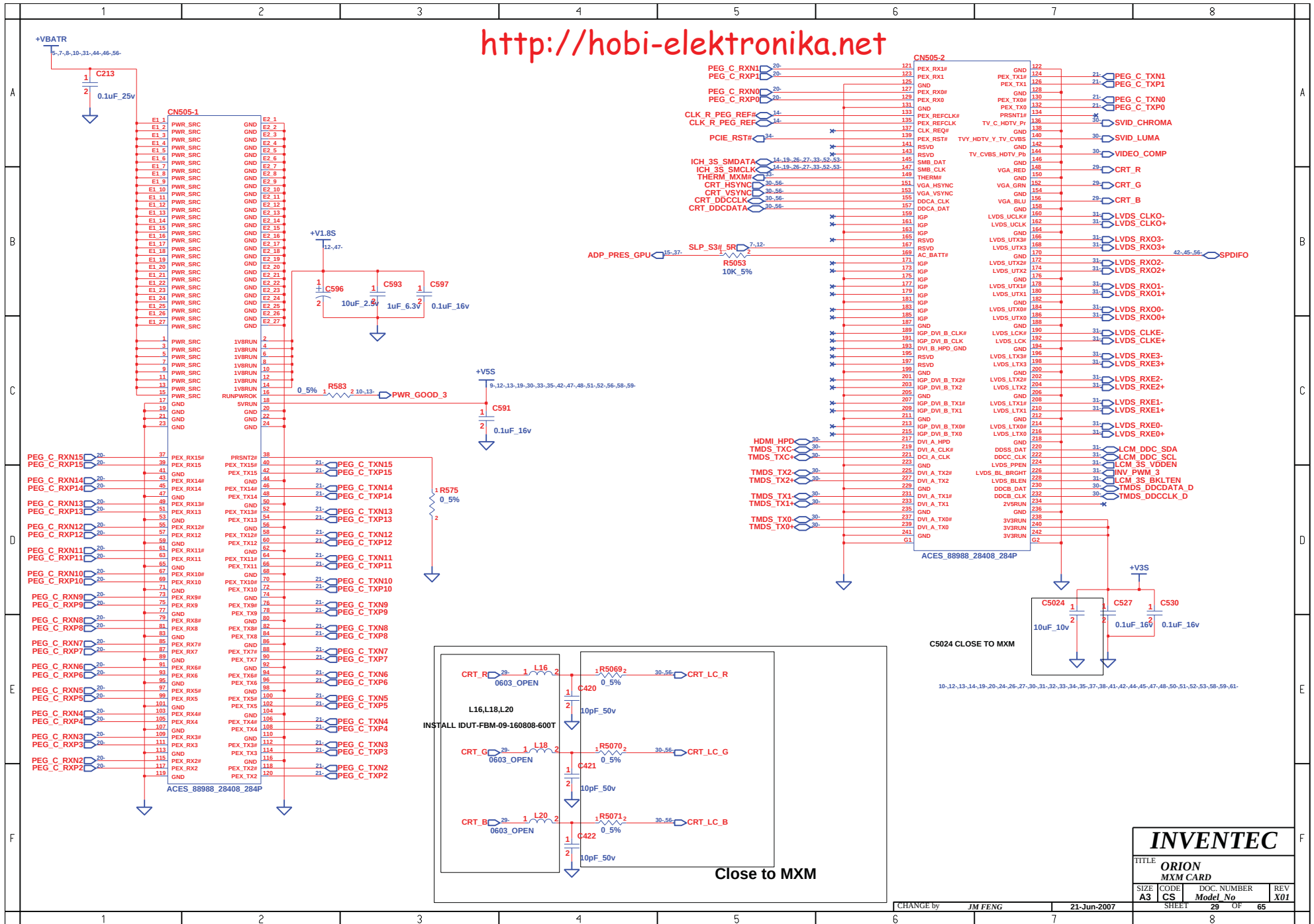
INVENTEC

TITLE			
ORION			
DDR2-DAMPING			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by JM FENG 3-Oct-2006

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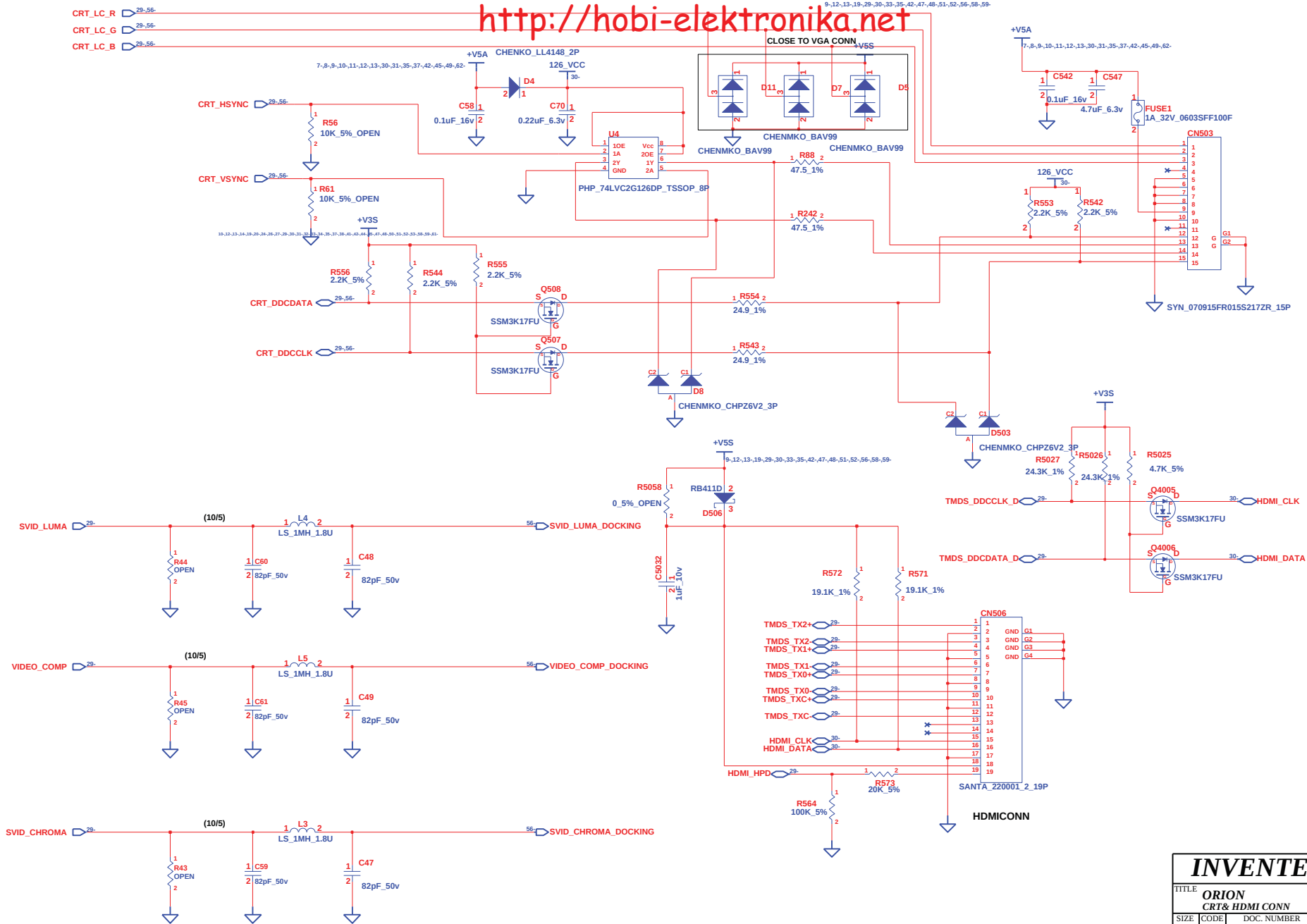


INVENTEC

TITLE				
ORION MXM CARD				
SIZE	CODE	DOC. NUMBER		REV
A3	CS	Model No		X0
SHEET 29 OF 65				

CHANGE by JM FENG 21-Jun-2007

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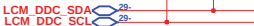
INVENTEC

TITLE			
ORION			
CRT & HDMI CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by JM FENG 16-May-2007

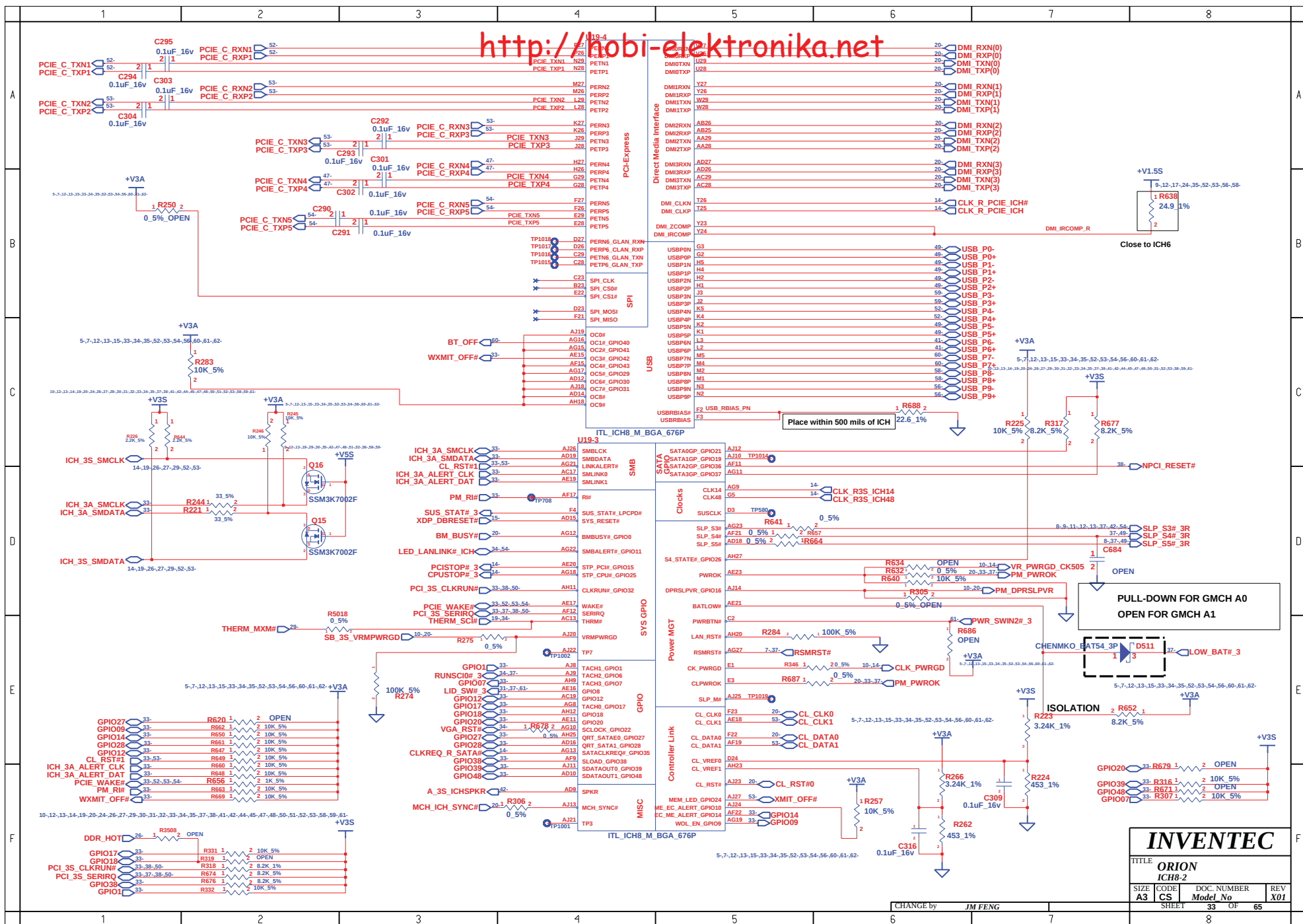
SHEET 30 OF 65

Place closed to connector



TITLE	ORION LCD CONN
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CHANGE by	JM FENG	9-Feb-2007
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BOOT BIOS STRAP

GNT0#	SPI_CS#1	Boot BIOS Location
0	1	SPI
1	0	PCI
1	1	LPC*

PCI_3S_AD(31:0)

PCI_3S_AD(0)
PCI_3S_AD(1)
PCI_3S_AD(2)
PCI_3S_AD(3)
PCI_3S_AD(4)
PCI_3S_AD(5)
PCI_3S_AD(6)
PCI_3S_AD(7)
PCI_3S_AD(8)
PCI_3S_AD(9)
PCI_3S_AD(10)
PCI_3S_AD(11)
PCI_3S_AD(12)
PCI_3S_AD(13)
PCI_3S_AD(14)
PCI_3S_AD(15)
PCI_3S_AD(16)
PCI_3S_AD(17)
PCI_3S_AD(18)
PCI_3S_AD(19)
PCI_3S_AD(20)
PCI_3S_AD(21)
PCI_3S_AD(22)
PCI_3S_AD(23)
PCI_3S_AD(24)
PCI_3S_AD(25)
PCI_3S_AD(26)
PCI_3S_AD(27)
PCI_3S_AD(28)
PCI_3S_AD(29)
PCI_3S_AD(30)
PCI_3S_AD(31)

PCI_3S_INTA# 34-50-
PCI_3S_INTB# 34-50-
PCI_3S_INTC# 34-
PCI_3S_INTD# 34-

U19-2

D20 A00
E18 A01
D18 A02
A20 A03
D17 A04
A21 A05
A18 A06
C18 A07
A18 A08
B16 A09
A12 A10
E18 A11
A14 A12
G16 A13
A15 A14
B6 A15
C11 A16
A18 A17
A8 A18
D11 A19
B12 A20
C12 A21
D10 A22
C7 A23
E11 A24
E13 A25
E12 A26
D8 A27
A6 A28
E8 A29
D6 A30
A3 A31

PCI

REQ0# A4
GNT0# D7
REQ1# GPIO0 E18
GNT1# GPIO1 C18
REQ2# GPIO2 F18
GNT2# GPIO3 B19
REQ3# GPIO4 A11
GNT3# GPIO5 C10
C_BE0# C17
C_BE1# E15
C_BE2# F16
C_BE3# E17
IRDY# C8
PAR D9
PCIRST# G6
DEVSEL# D16
PERR# A7
LOCK# B7
SERR# F10
STOP# C16
TRDY# C9
FRAME# A17
AG24
B10
G7

Interrupt I/F

PIRQA# F9
PIRQB# B5
PIRQC# C5
PIRQD# A10
PIRQE# GPIO2
PIRQF# GPIO3
PIRQG# GPIO4
PIRQH# GPIO5

ITL_ICH8_M_BGA_676P

10-12,13,14,19,20,24,26,27,29,30,31,32,33,34,35,37,38,41,42,44,45,47,48,50,51,52,53,58,59,61-

+V3S

R264 1 2 8.2K 5%

R327 1 2 8.2K 5%

R315 1 2 8.2K 5%

R272 1 2 8.2K 5%

R278 1 2 8.2K 5%

R265 1 2 8.2K 5%

R330 1 2 8.2K 5%

R329 1 2 8.2K 5%

R338 1 2 8.2K 5%

R261 1 2 8.2K 5%

R280 1 2 8.2K 5%

R302 1 2 8.2K 5%

R337 1 2 8.2K 5%

R340 1 2 8.2K 5%

R314 1 2 8.2K 5%

R326 1 2 8.2K 5%

R279 1 2 8.2K 5%

R273 1 2 8.2K 5%

R328 1 2 8.2K 5%

R673 1 2 8.2K 5%

R684 1 2 8.2K 5%

R651 1 2 8.2K 5%

(8.2K)

LED_LANLINK#_ICH 33-54

10-12,13,14,19,20,24,26,27,29,30,31,32,33,34,35,37,38,41,42,44,45,47,48,50,51,52,53,58,59,61-

+V3A

10-12,13,14,19,20,24,26,27,29,30,31,32,33,34,35,37,38,41,42,44,45,47,48,50,51,52,53,58,59,61-

10-12,13,14,19,20,24,26,27,29,30,31,32,33,34,35,37,38,41,42,44,45,47,48,50,51,52,53,58,59,61-

10-12,13,14,19,20,24,26,27,29,30,31,32,33,34,35,37,38,41,42,44,45,47,48,50,51,52,53,58,59,61-

10-12,13,14,19,20,24,26,27,29,30,31,32,33,34,35,37,38,41,42,44,45,47,48,50,51,52,53,58,59,61-

10-12,13,14,19,20,24,26,27,29,30,31,32,33,34,35,37,38,41,42,44,45,47,48,50,51,52,53,58,59,61-

10-12,13,14,19,20,24,26,27,29,30,31,32,33,34,35,37,38,41,42,44,45,47,48,50,51,52,53,58,59,61-

10-12,13,14,19,20,24,26,27,29,30,31,32,33,34,35,37,38,41,42,44,45,47,48,50,51,52,53,58,59,61-

10-12,13,14,19,20,24,26,27,29,30,31,32,33,34,35,37,38,41,42,44,45,47,48,50,51,52,53,58,59,61-

10-12,13,14,19,20,24,26,27,29,30,31,32,33,34,35,37,38,41,42,44,45,47,48,50,51,52,53,58,59,61-

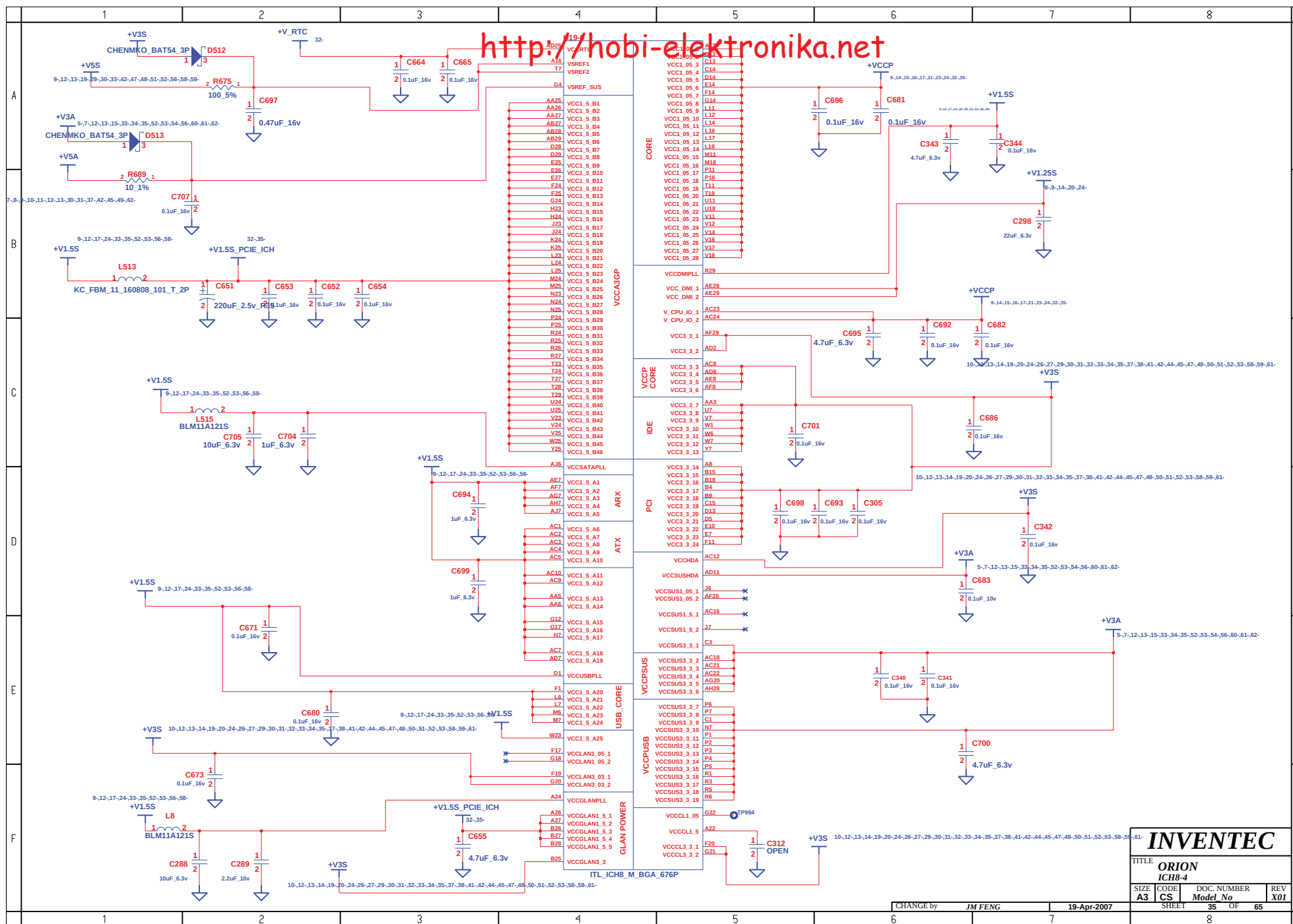
10-12,13,14,19,20,24,26,27,29,30,31,32,33,34,35,37,38,41,42,44,45,47,48,50,51,52,53,58,59,61-

10-12,13,14,19,20,24,26,27,29,30,31,32,33,34,35,37,38,41,42,44,45,47,48,50,51,52,53,58,59,61-

10-12,13,14,19,20,24,26,27,29,30,31,32,33,34,35,37,38,41,42,44,45,47,48,50,51,52,53,58,59,61-

10-12,13,14,19,20,24,26,27,29,30,31,32,33,34,35,37,38,41,42,44,45,47,48,50,51,52,53,58,59,61-

10-12,13,14,19,20,24,26,27,29,30,31,32,33,34,35,37,38,41,42,44,45,47,48,50,51,52,53,58,59,61-



<http://hobi-elektronika.net>

D19-5

A23 VS5001 VS5099 K7
A5 VS5002 VS5100 L1
AA2 VS5003 VS5101 L13
AA7 VS5004 VS5102 L15
A25 VS5005 VS5103 L26
AB1 VS5006 VS5104 L27
AB24 VS5007 VS5105 L4
AC11 VS5008 VS5106 L5
AC14 VS5009 VS5107 M12
AC25 VS5010 VS5108 M13
AC26 VS5011 VS5109 M14
AC27 VS5012 VS5110 M15
AD17 VS5013 VS5111 M16
AD20 VS5014 VS5112 M17
AD28 VS5015 VS5113 M23
AD29 VS5016 VS5114 M28
AD3 VS5017 VS5115 M29
AD4 VS5018 VS5116 M3
AD6 VS5019 VS5117 N1
AE1 VS5020 VS5118 N14
AE12 VS5021 VS5119 N12
AE2 VS5022 VS5120 N13
AE22 VS5023 VS5121 N14
AD1 VS5024 VS5122 N15
AE25 VS5025 VS5123 N16
AE5 VS5026 VS5124 N17
AE6 VS5027 VS5125 N18
AE9 VS5028 VS5126 N26
AF14 VS5029 VS5127 N27
AF16 VS5030 VS5128 N4
AF18 VS5031 VS5129 N6
AF3 VS5032 VS5130 N6
AF4 VS5033 VS5131 P12
AG5 VS5034 VS5132 P13
AG6 VS5035 VS5133 P14
AH10 VS5036 VS5134 P15
AH13 VS5037 VS5135 P16
AH16 VS5038 VS5136 P17
AH19 VS5039 VS5137 P23
AH2 VS5040 VS5138 P28
AF28 VS5041 VS5139 P29
AH22 VS5042 VS5140 R11
AH24 VS5043 VS5141 R12
AH26 VS5044 VS5142 R13
AH3 VS5045 VS5143 R14
AH4 VS5046 VS5144 R15
AH6 VS5047 VS5145 R16
AJ5 VS5048 VS5146 R17
B11 VS5049 VS5147 R18
B14 VS5050 VS5148 R28
B17 VS5051 VS5149 R4
B2 VS5052 VS5150 T12
B20 VS5053 VS5151 T13
B22 VS5054 VS5152 T14
B6 VS5055 VS5153 T15
C24 VS5056 VS5154 T16
C26 VS5057 VS5155 T17
C27 VS5058 VS5156 T2
C6 VS5059 VS5157 U12
D12 VS5060 VS5158 U13
D15 VS5061 VS5159 U14
D18 VS5062 VS5160 U15
D2 VS5063 VS5161 U16
D4 VS5064 VS5162 U17
E21 VS5065 VS5163 U23
E24 VS5066 VS5164 U26
E4 VS5067 VS5165 U27
E9 VS5068 VS5166 U3
F15 VS5069 VS5167 U5
E23 VS5070 VS5168 V13
F28 VS5071 VS5169 V15
F29 VS5072 VS5170 V28
F7 VS5073 VS5171 V29
G1 VS5074 VS5172 W2
E2 VS5075 VS5173 W26
G10 VS5076 VS5174 W27
G13 VS5077 VS5175 Y28
G19 VS5078 VS5176 Y29
G21 VS5079 VS5177 Y4
G25 VS5080 VS5178 AB4
G26 VS5081 VS5179 AB23
G27 VS5082 VS5180 AB5
H25 VS5083 VS5181 AB6
H28 VS5084 VS5182 AD5
H29 VS5085 VS5183 UA
H3 VS5086 VS5184 W24
H6 VS5087 VSS_NCTF_01 A1
J1 VS5088 VSS_NCTF_02 A2
J26 VS5089 VSS_NCTF_03 A28
J26 VS5090 VSS_NCTF_04 A29
J27 VS5091 VSS_NCTF_05 AH1
J4 VS5092 VSS_NCTF_06 AH29
J6 VS5093 VSS_NCTF_07 A31
K21 VS5094 VSS_NCTF_08 A32
K28 VS5095 VSS_NCTF_09 AJ28
K29 VS5096 VSS_NCTF_010 AJ29
K3 VS5097 VSS_NCTF_011 B1
K6 VS5098 VSS_NCTF_012 B29

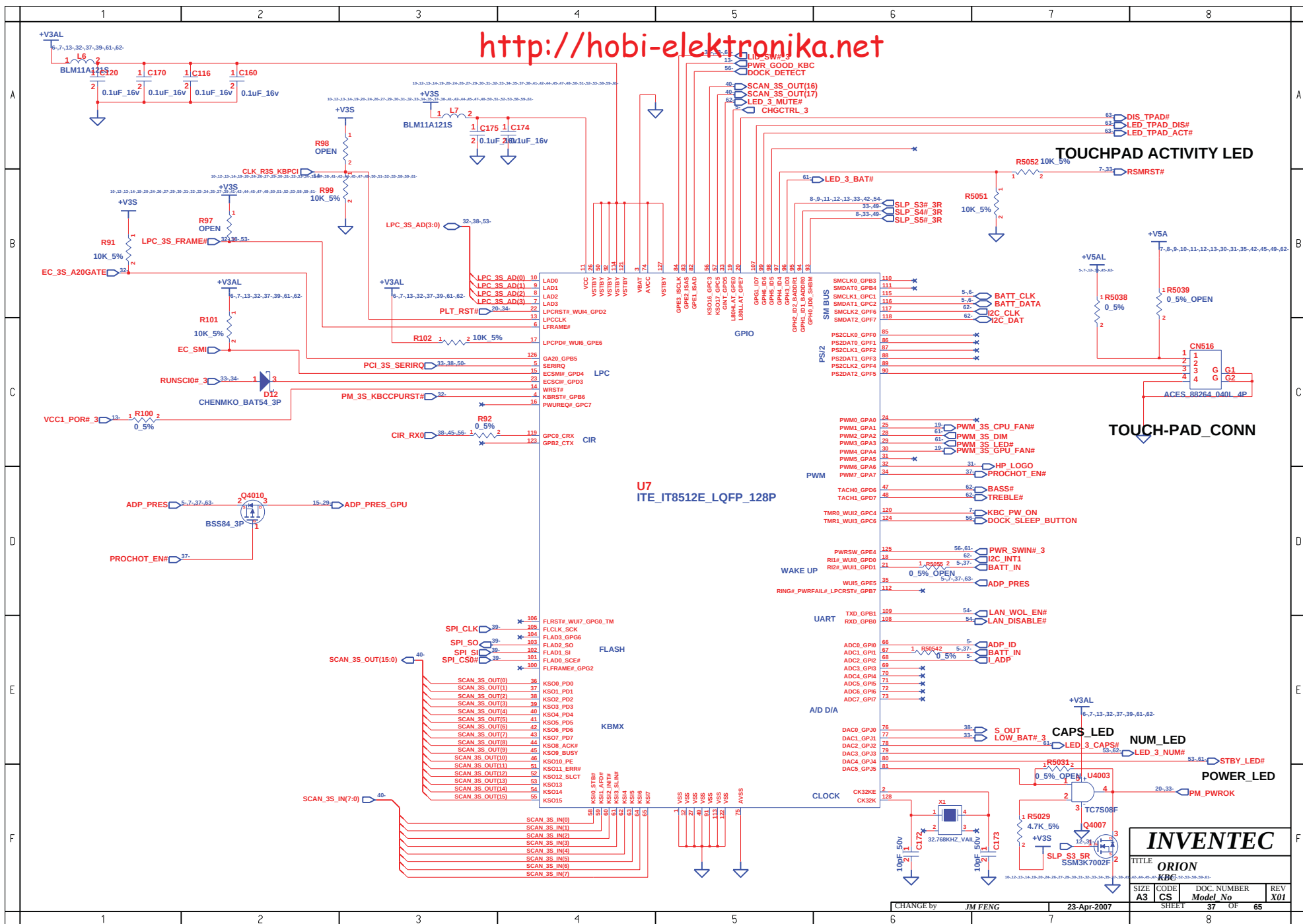
ITL_ICH8_M_BGA_676P



INVENTEC				
TITLE ORION				
ICH8-5				
SIZE	CODE	DOC. NUMBER	REV	
A3	CS	Model No	X01	
SHEET		36	OF	65

CHANGE by JM FENG 13-Oct-2006

8

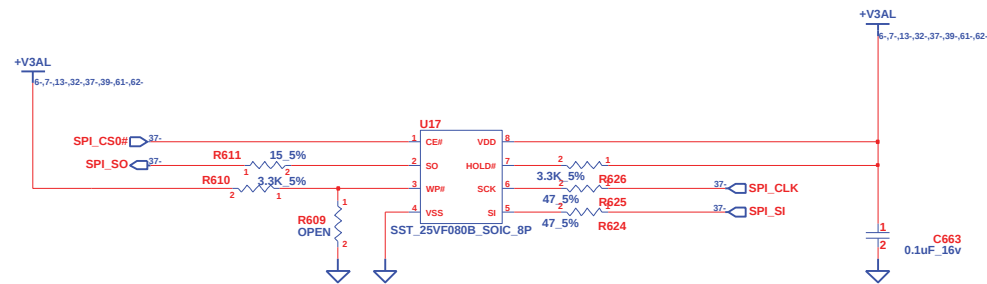


[illegible]

TITLE			
CIR CONTROLLER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS		
SHEET 38 OF 65			

A3	CS		
SHEET		38	OF 65

<http://hobi-elektronika.net>



SPI BIOS

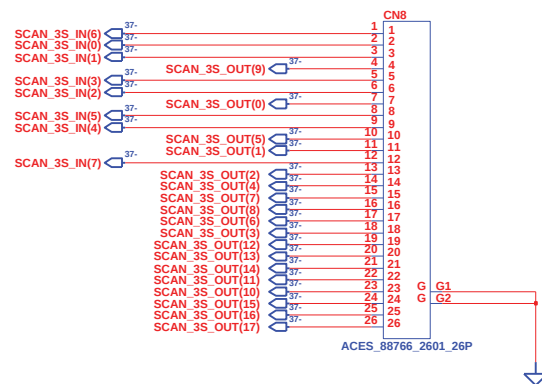
INVENTEC

TITLE			
ORION			
SPI BIOS			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by JM FENG 23-Mar-2007

SHEET 39 OF 65

<http://hobi-elektronika.net>



INVENTEC			
TITLE ORION			
INT.KB/POINT DEVICES			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01
CHANGE by JM FENG		11-Dec-2006	
SHEET 40		OF 65	

1 2 3 4 5 6 7 8

http://hobi-elektronika.net

USB_P6+ 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61

ACES 87213 0400N_4P

10-12-13-14-19-20-24-26-27-29-30-31-32-33-34-35-37-38-42-44-45-47-48-50-51-52-53-58-59-61

4 3 2 1

G2 G1

CN5

+V3S

FAIR_FPF2005_SC70_5P

U3052

VIN VOUT GND FLAG

5 4 3 2 1

+V3FP

C3575 10uF_6.3v

C3577 OPEN

FP_GND

R3485 100K_5%_OPEN

40.2K_1%_OPEN

R3490

C3576 0.1uF_16v

FP_GND

R3484 470_5%

Q695 FDN336P

+V3VDD_L

R3486 2_1%

U3051 AUT_AES2501B_BGA_56P

D10 D9 D8 D7 D6 D5 D4 D3 D2 D1 D0

OVC_VDDA OVC_DET OVC_VDD

REF REF

CT2 CT1

RESET#

SYS_CLK

A11

C3579 0.22uF_6.3v

C3572 10pF_50v

R3489 47K_5%

FP_GND

12MHz

R3488 1K_5%

C3574 1000pF_50v

C3573 10pF_50v

FP_GND

R3483 47_5%

IO1 IO2

REF1 REF2

D3092 SEM_SR05_SOT143_4P

+V3FP

R3481 1.5K_5%

R3482 24_5%

R3487 1.5K_5%

C3578 0.1uF_16v

FP_GND

PAD7

SMDPAD32X200_T9_4P

FP_GND

D3093 CMD_CM1293_02ST_SOT23_5P_OPEN

FP_GND

Finger Print Reader DB
(Same as DAVOS30 FPR circuit.)

INVENTEC

TITLE ORION
FINGER PRINTER CONN.

SIZE A3 CODE CS DOC. NUMBER Model No REV X01

CHANGE by JM FENG 7-Jan-2007

SHEET 41 OF 65

Finger Print Reader DB

(Same as DAVOS30 FPR circuit.)

(Same as DAVOS30 FPR circuit.)

INVENTEC

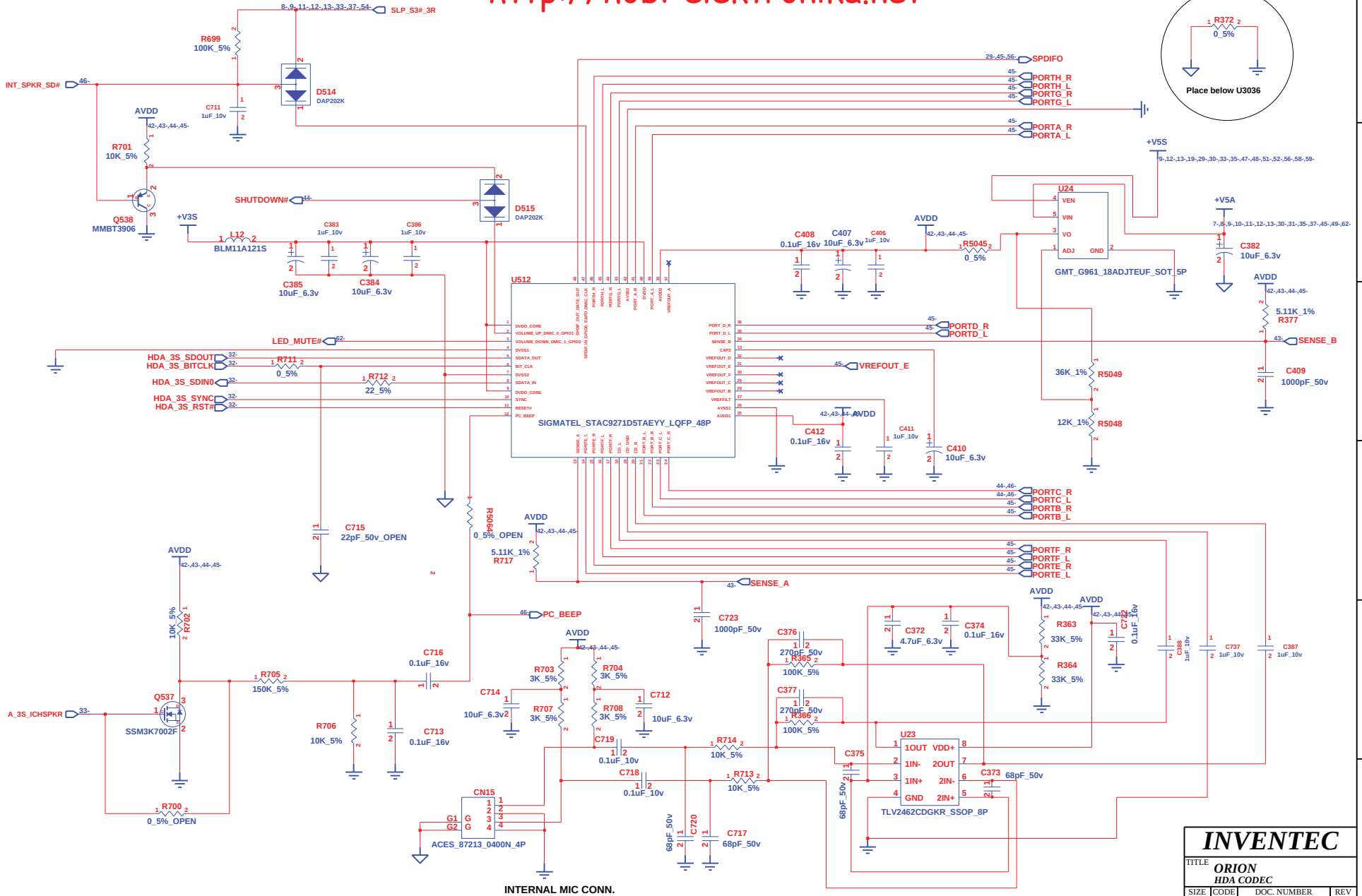
TITLE	ORION FINGER PRINTER CONN.
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SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV X01
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CHANGE by	JM FENG	7-Jan-2007
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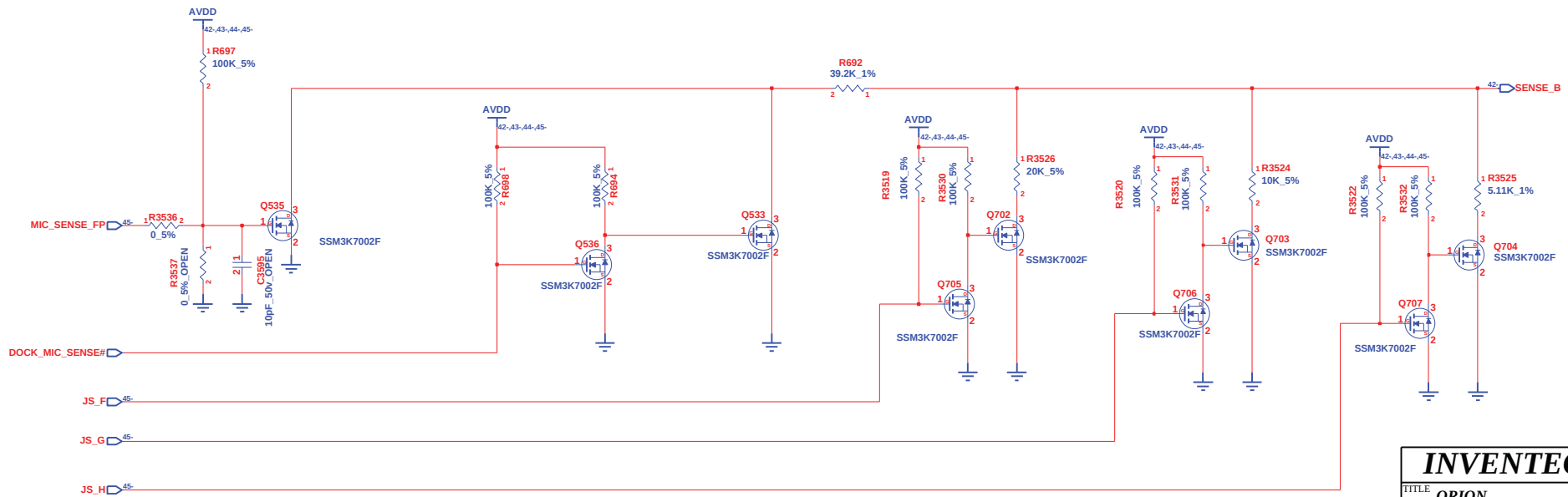
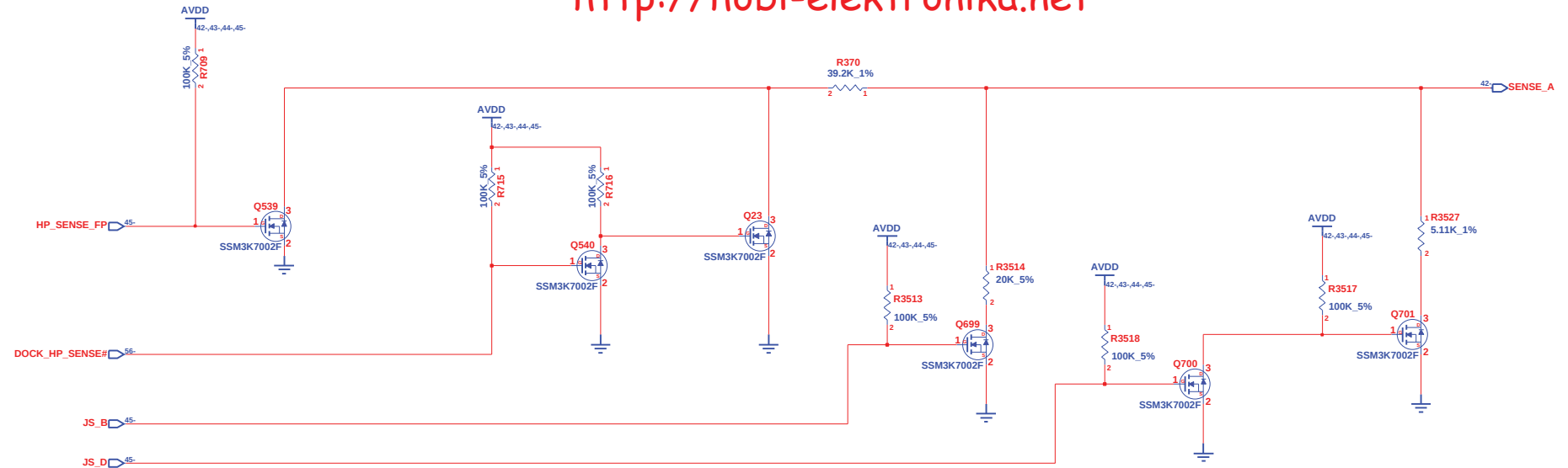
8

<http://hobi-elektronika.net>



INVENTEC			
TITLE ORION HDA CODEC			
SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV <i>X01</i>
SHEET 42		OF 65	
8			

<http://hobi-elektronika.net>



INVENTEC

TITLE			
ORION			
AUDIO JACK SENSE			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by JM FENG 12-Jan-2007

SHEET 43 OF 65

<http://hobi-elektronika.net>

LAYOUT NOTES: Trace C724-C725 should be run parallel, C725 should be ground at U512.

SUBWOOFER CONN.

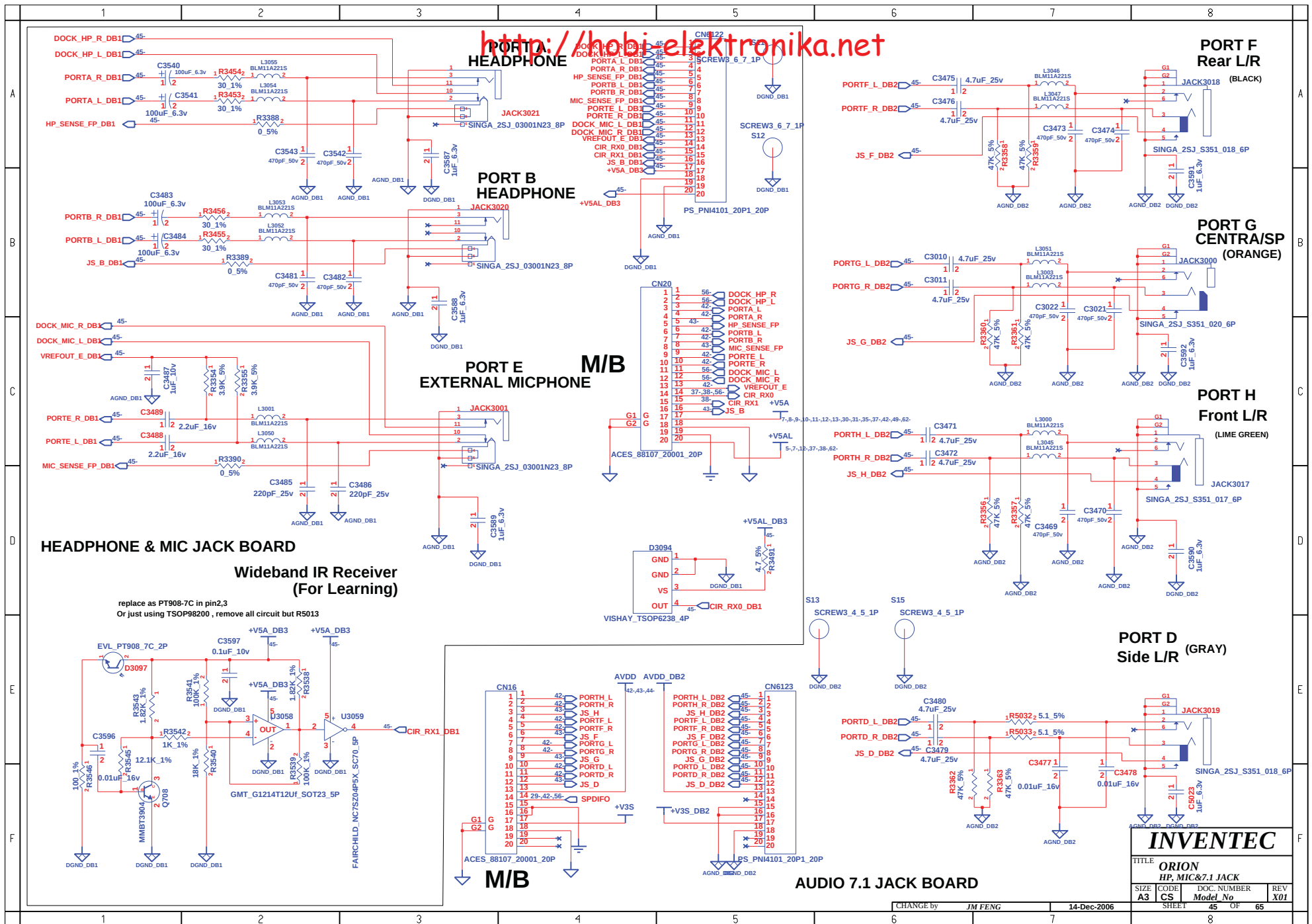
10-12-13-14-19-20-24-26-27-29-30-31-32-33-34-35-37-38-41-42-45-47-48-50-51-52-53-58-59-61-

INVENTEC

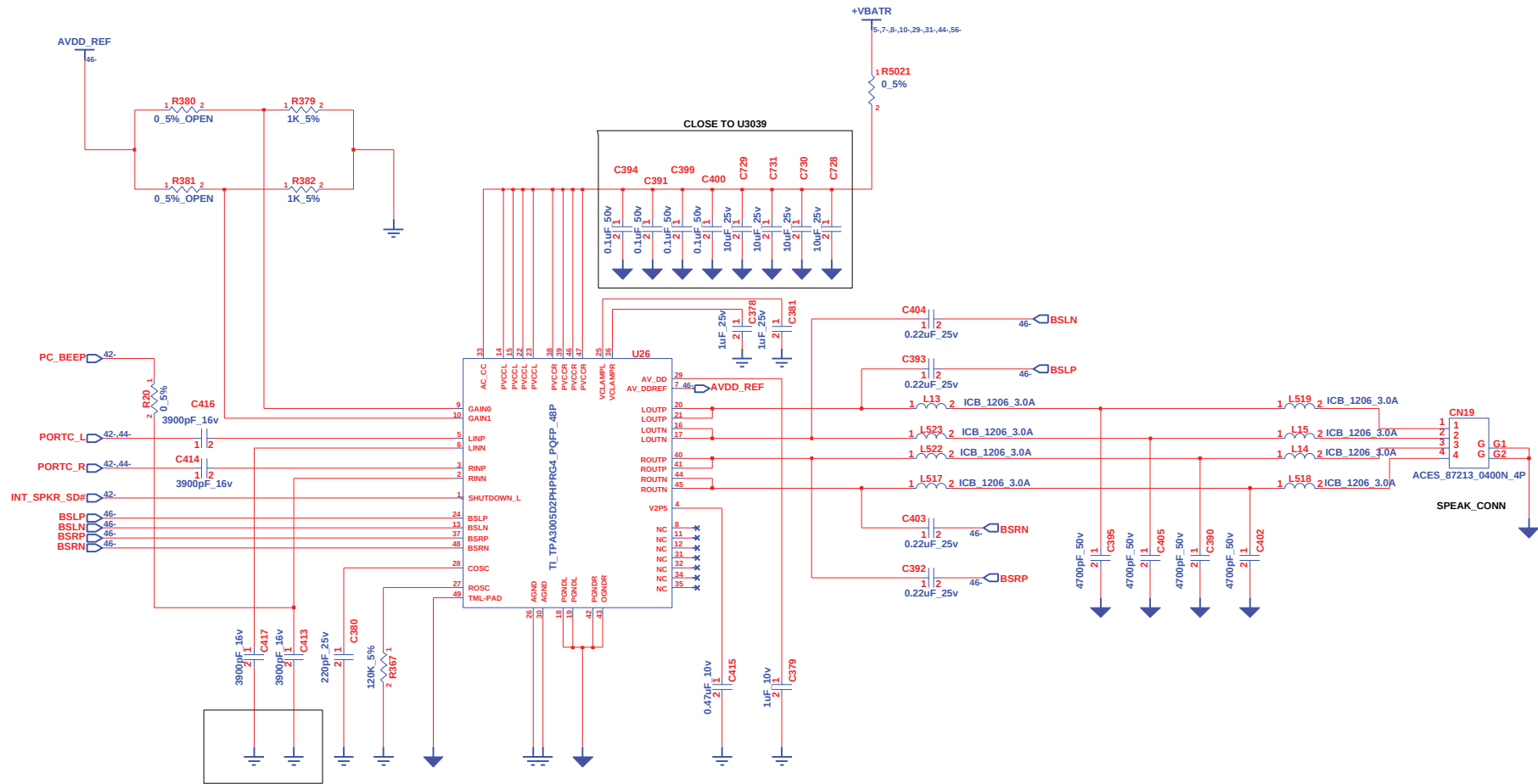
TITLE ORION SUBWOOFER			
SIZE A3	CODE CS	DOC. NUMBER Model No 44	REV X01

CHANGE by JM FENG 26-Mar-2007

SHEET 44 OF 65



<http://hobi-elektronika.net>



Layout Note: Trace should be parallel to traces for C414, C416, and connect to AGND of U512

INVENTEC

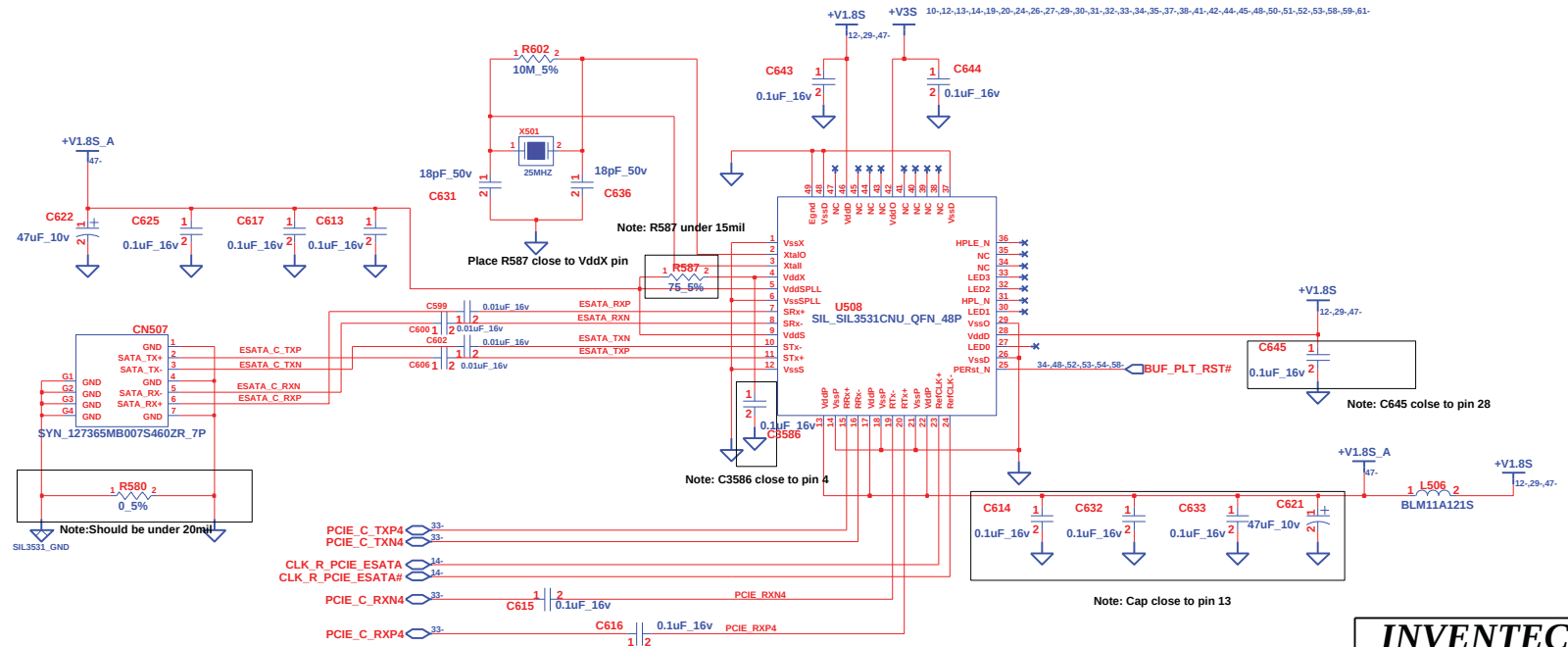
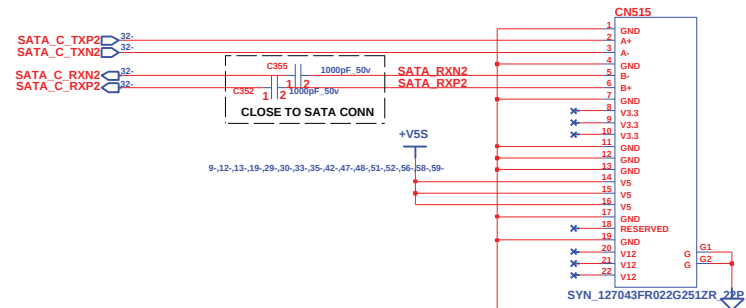
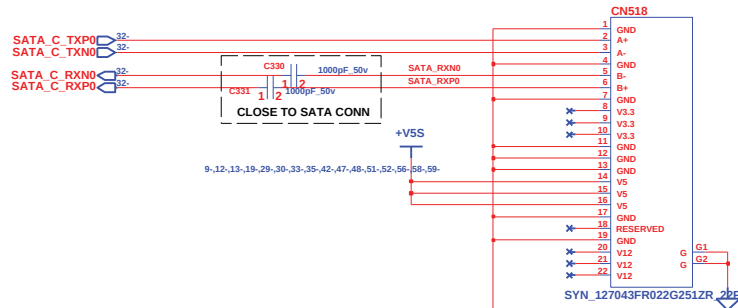
TITLE
SPEAK_CONN.

SIZE A3	CODE CS	DOC. NUMBER	REV
SHEET 1		46 OF 65	

CHANGE by ORION 21-May-2007

8

<http://hobi-elektronika.net>



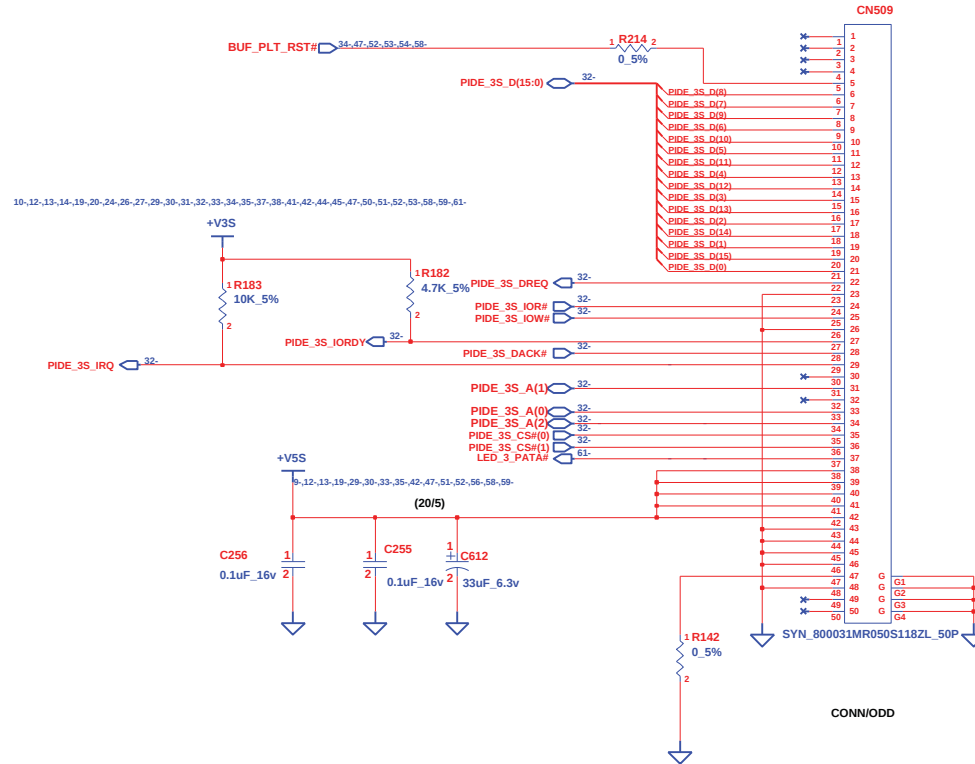
INVENTEC

TITLE			
ORION ESATA / SATA CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by JM FENG 4-Jan-2007

SHEET 47 OF 65

<http://hobi-elektronika.net>



INVENTEC

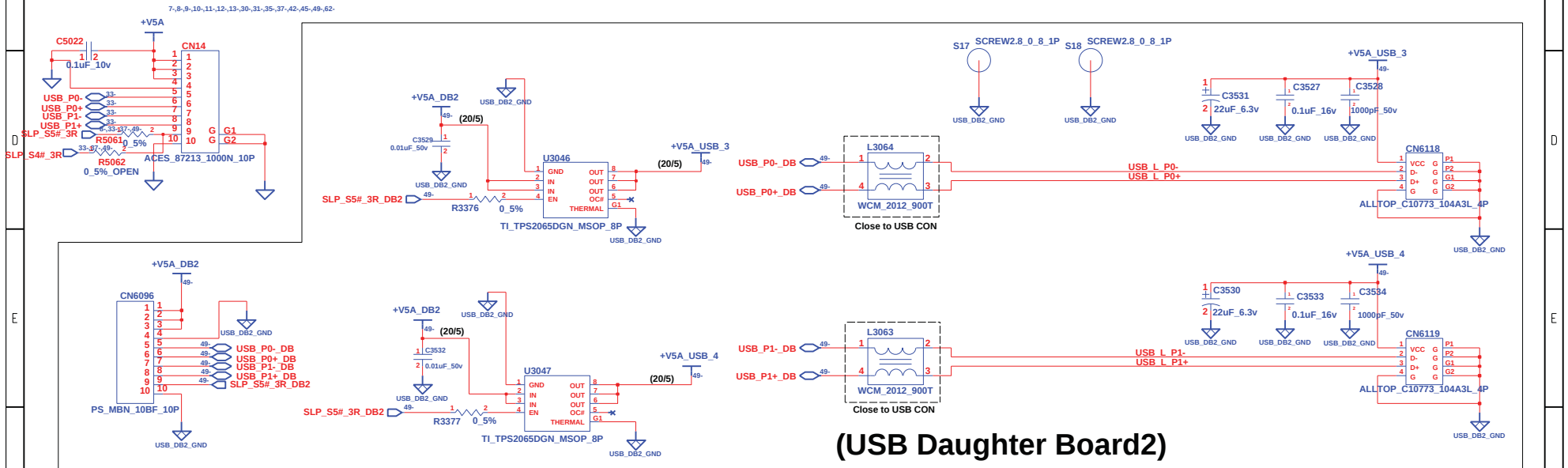
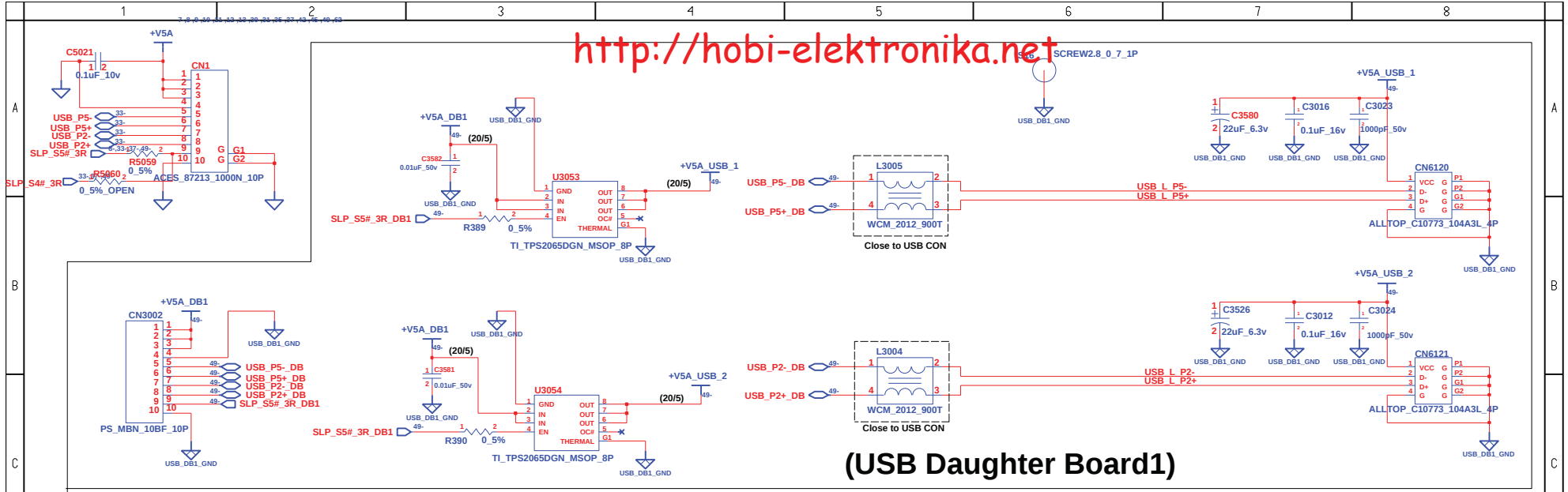
TITLE
**ORION
ODD CONN**

SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01
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CHANGE by **JM FENG** 18-Oct-2006

SHEET 48 OF 65

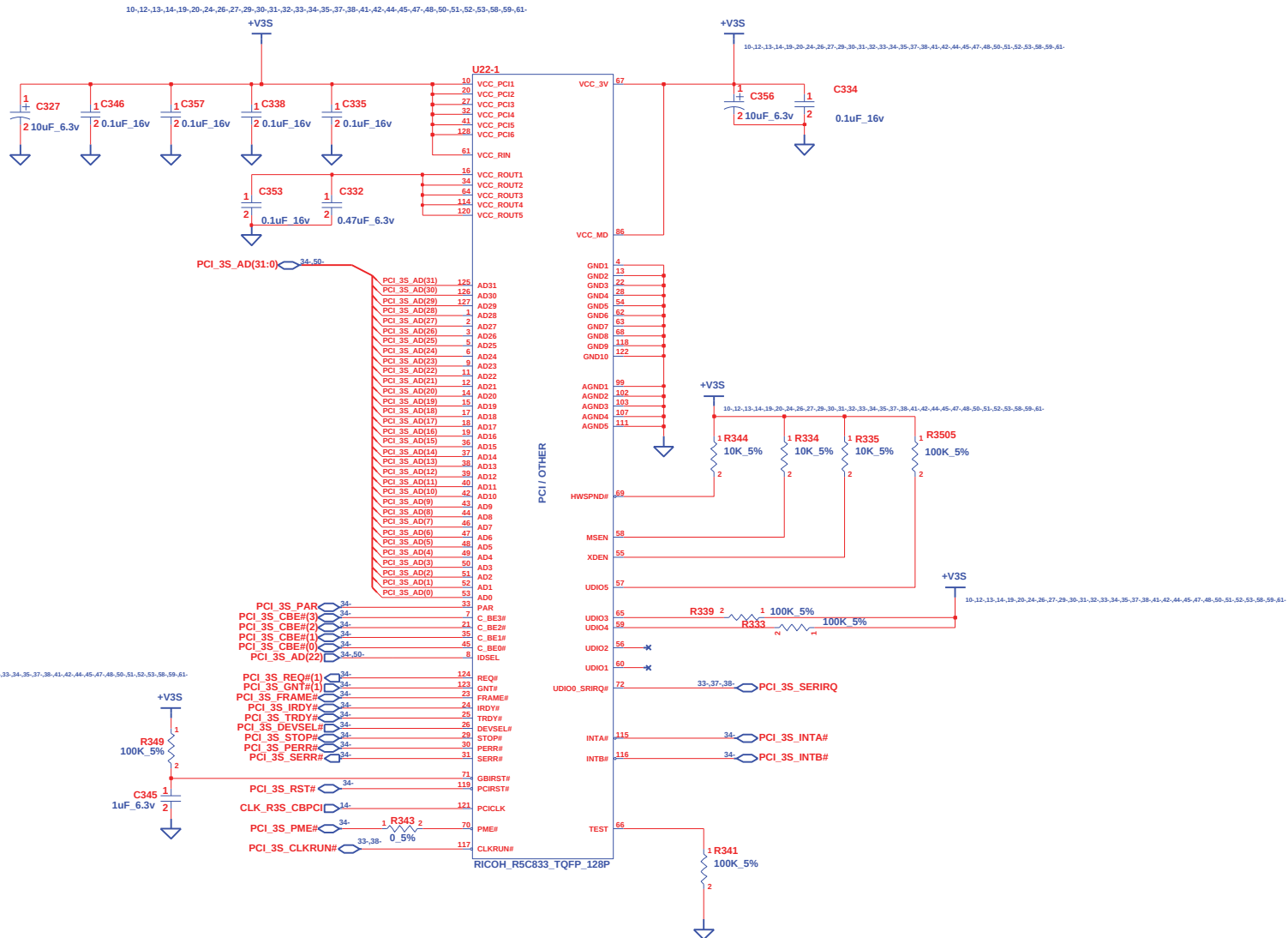
<http://hobi-elektronika.net>



INVENTEC

TITLE ORION USB CONN			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01
CHANGE by JM FENG		6-Feb-2007	
SHEET 49		OF 65	

<http://hobi-elektronika.net>



INVENTEC

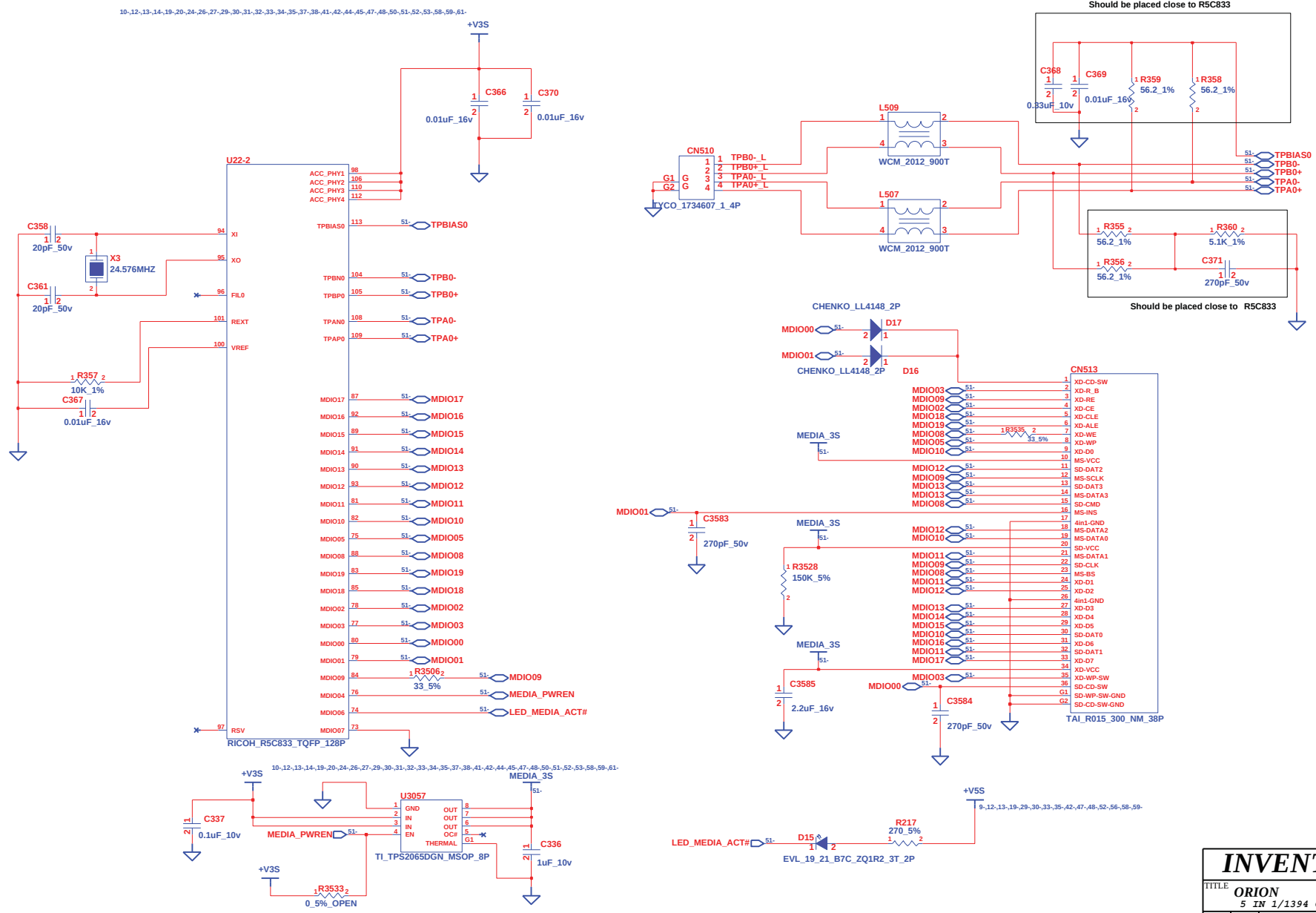
TITLE
ORION
5 IN1/1394 CONN

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by JM FENG 7-Feb-2007

SHEET 50 OF 65

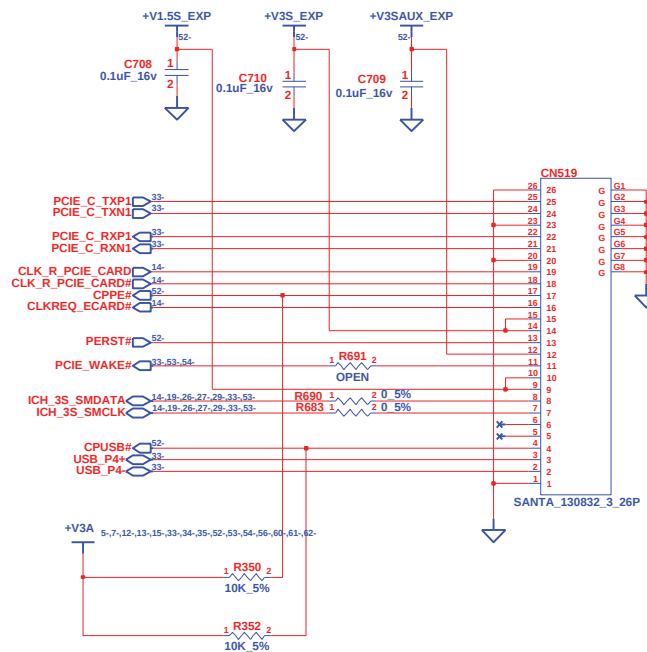
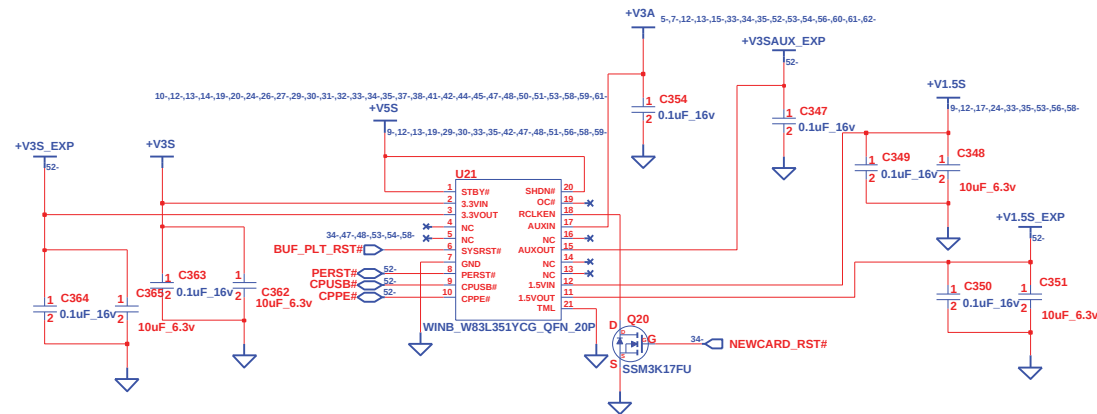
<http://hobi-elektronika.net>



INVENTEC			
ORION			
5 IN 1/1394 CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		51	OF 65

CHANGE by JM FENG 16-Feb-2007

<http://hobi-elektronika.net>



INVENTEC

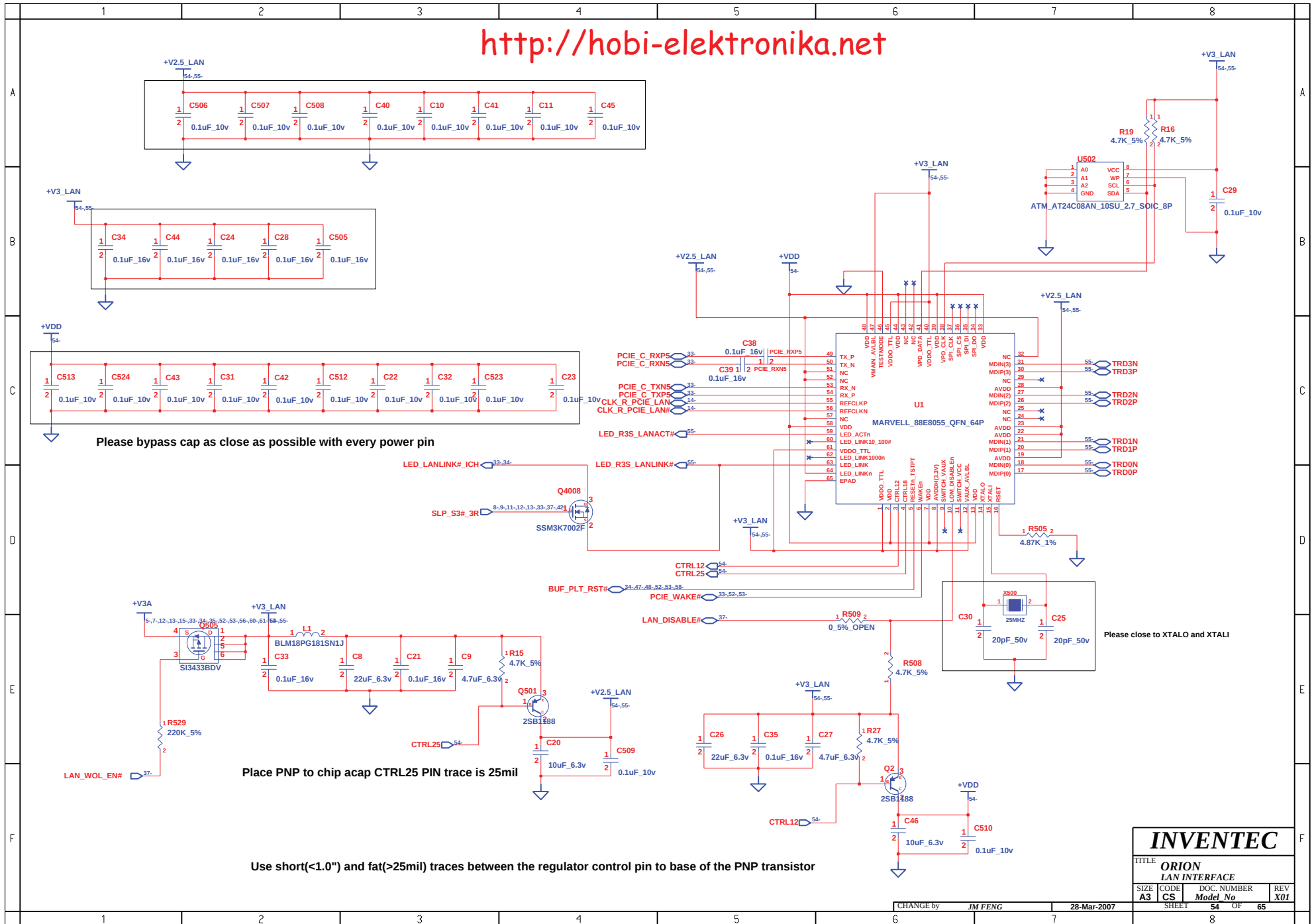
TITLE
ORION
Expresscard Conn.

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

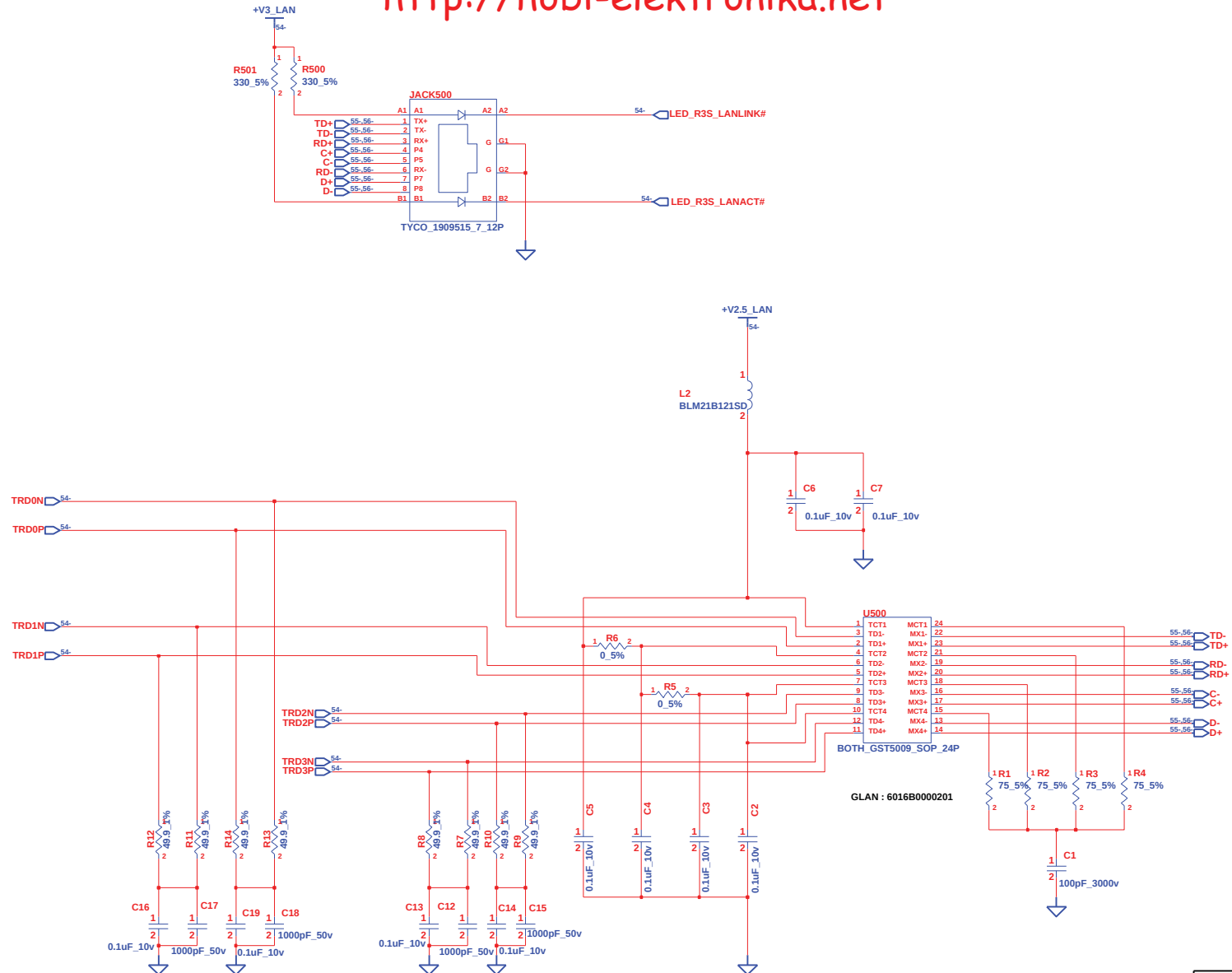
CHANGE by JM FENG 21-Sep-2006

SHEET 52 OF 65

<http://hobi-elektronika.net>



<http://hobi-elektronika.net>



LAYOUT NOTE : Place termination resistors and caps as close to LAN controller as possible

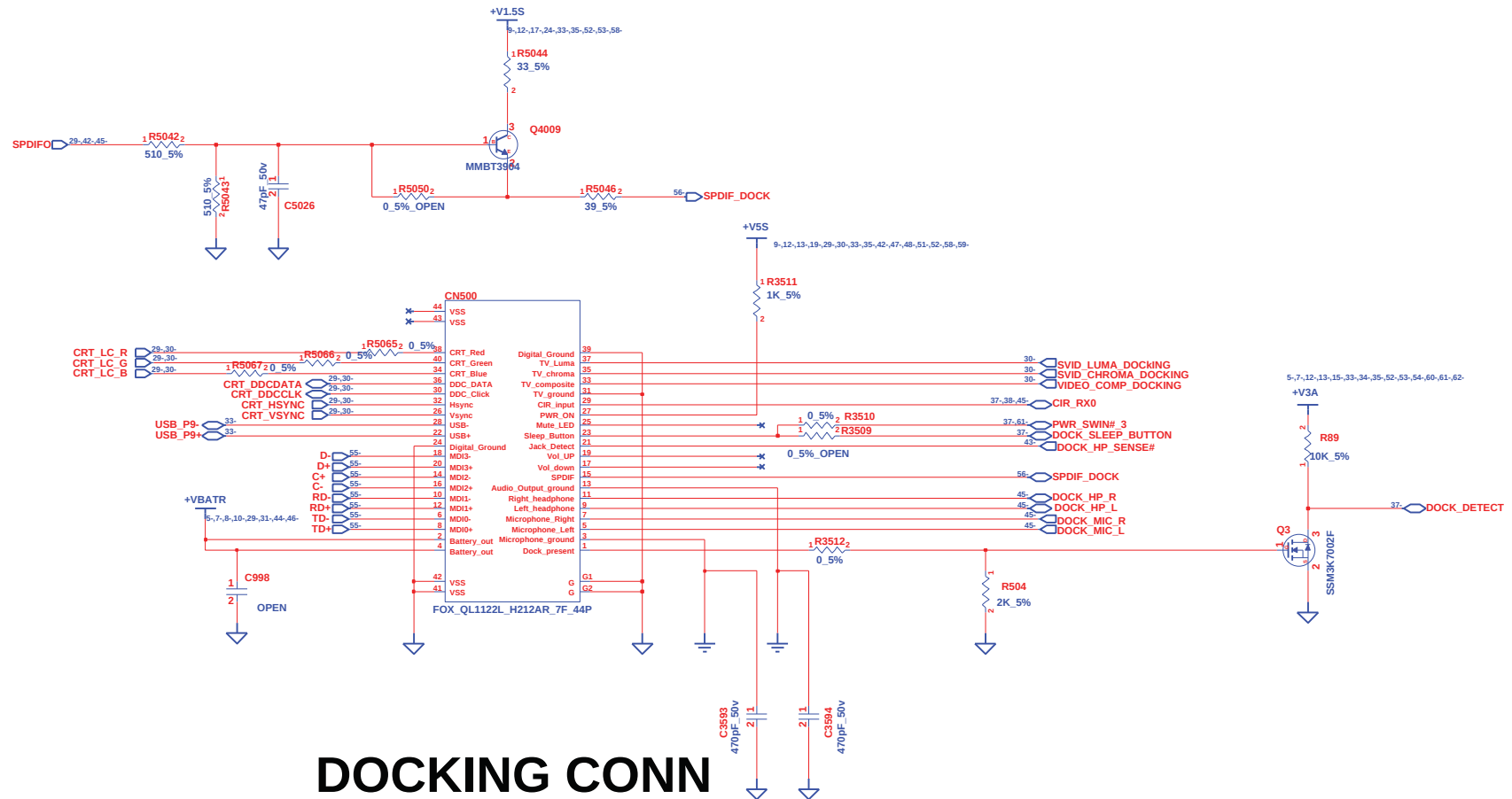
INVENTEC

TITLE			
ORION			
Transformer&RJ45			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by JM FENG 14-Dec-2006

SHEET 55 OF 65

<http://hobi-elektronika.net>



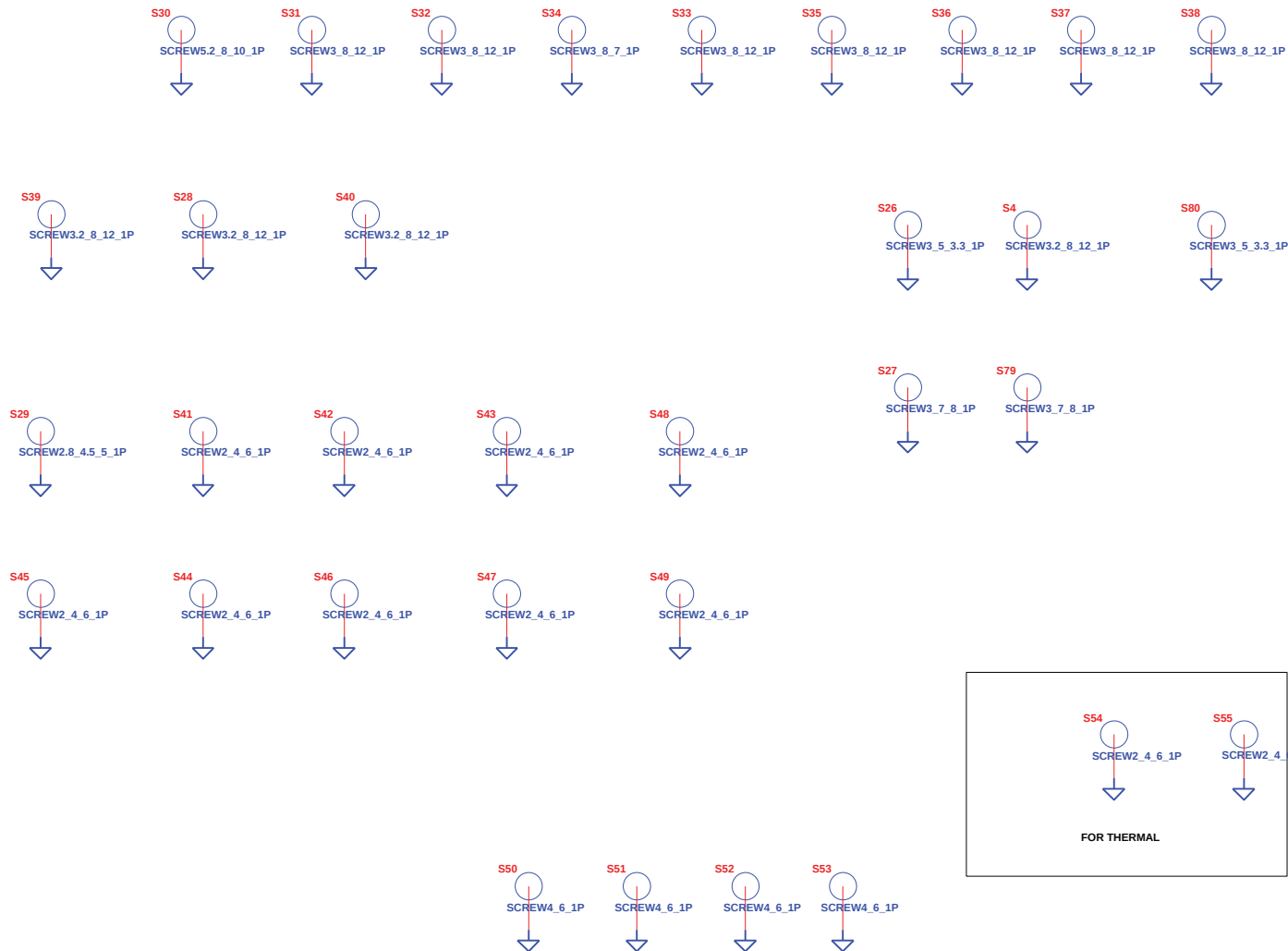
INVENTEC

TITLE			
ORION DOCKING CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by JM FENG 28-May-2007

SHEET 56 OF 65

<http://hobi-elektronika.net>



INVENTEC

TITLE			
ORION			
SCREW			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by JM FENG 26-Mar-2007

SHEET 57 OF 65

8

10-12-13-14-15-20-24-25-27-29-30-31-32-33-34-35-37-38-41-42-44-45-47-48-50-51-52-53-58-59-61



AV connect DAUGHTER BOARD

AUDIO JACK DB

IR OUT JACK

CONNECTOR ON TV BOARD

TITLE			
ORION TV Tuner CONN.			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	<i>Model No</i>	X01

CHANGE by	JM FENG	6-Feb-2007
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58	UF	65
8		

1 2 3 4 5 6 7 8

A

B

C

D

E

F

http://hobi-elektronika.net

Webcam CONN

INVENTEC			
TITLE ORION			
WEBCAM CONN.			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by	JM FENG	28-May-2007
SHEET	59	OF 65

1 2 3 4 5 6 7 8

A

B

C

D

E

F

http://hobi-elektronika.net

Webcam CONN

INVENTEC			
TITLE ORION			
WEBCAM CONN.			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by	JM FENG	28-May-2007
SHEET	59	OF 65

SHEET 59 OF 65

6	7
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5-7,12,13,15,33,34,35,52,53,54,56,61,62

+V3A

BT_OFF

R354 10K_5%

R353 220K_5%

Q21 PMV65XP

C360 4.7uF_6.3v

C359 0.1uF_16v

BLUETOOTH_VCC

USB_P7+

USB_P7-

LED_3_BT

WLAN_PRIORITY

BT_PRIORITY

R362 OPEN

R361 OPEN

CN17

ACES_87213_0800N_8P

G1

G2

INVENTEC			
TITLE ORION BLUETOOTH CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

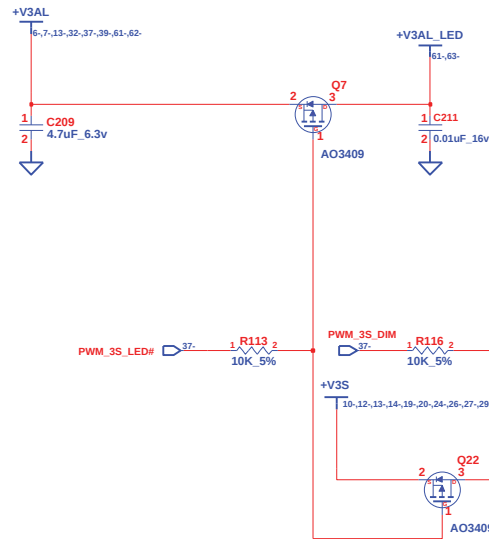
CHANGE by	JM FENG	24-Dec-2006
SHEET	60	OF 65

SHEET	60	OF	65
8			

CHANGE by	JM FENG	24-Dec-2006
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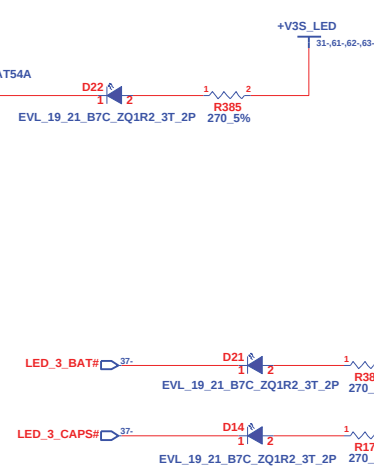
<http://hobi-elektronika.net>

HDD & ODD LED



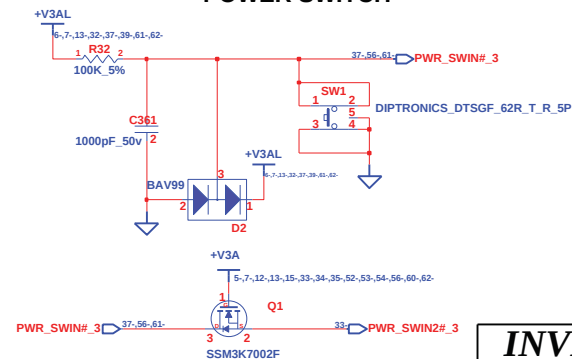
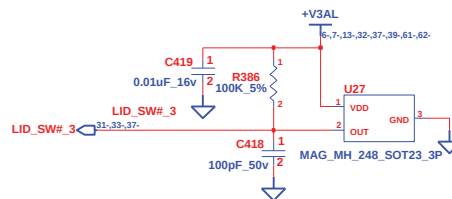
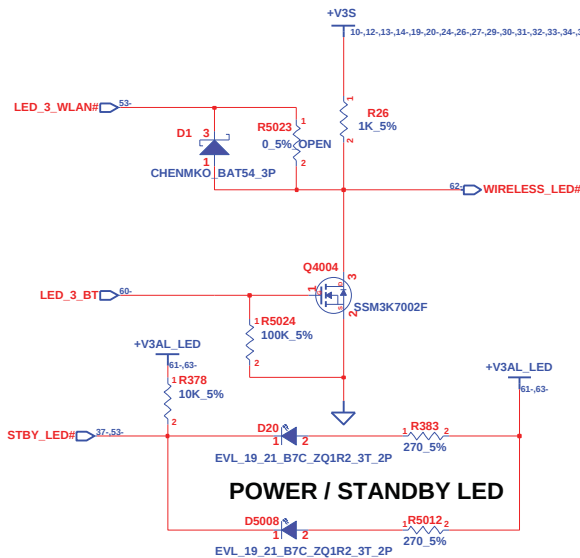
BATTERY-CHARGE LED

CAP LOCK LED



LID SWITCH

POWER SWITCH



POWER / STANDBY LED

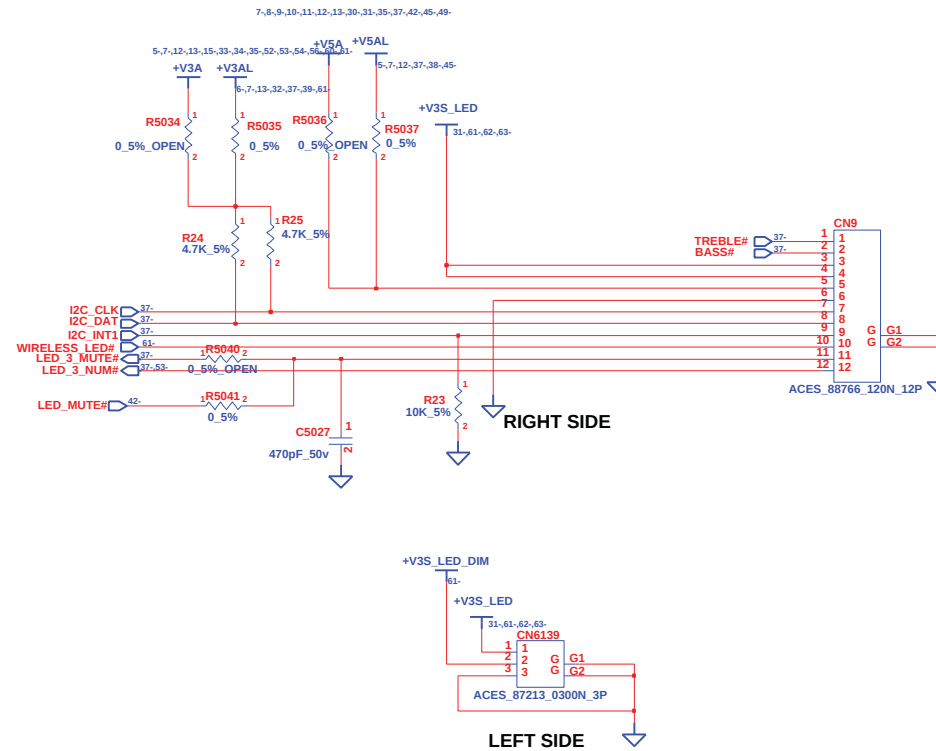
INVENTEC

TITLE			
ORION			
PWR & LID SWITCH & LEDS			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by JM FENG 23-Mar-2007

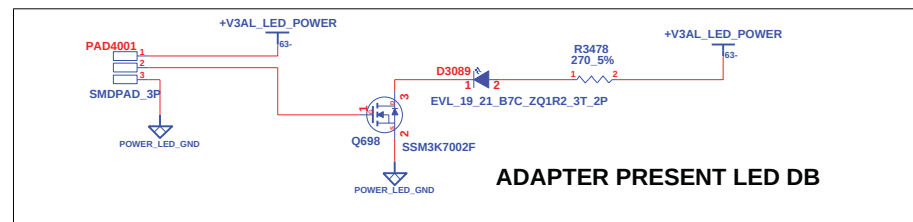
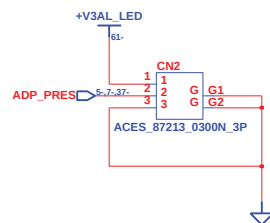
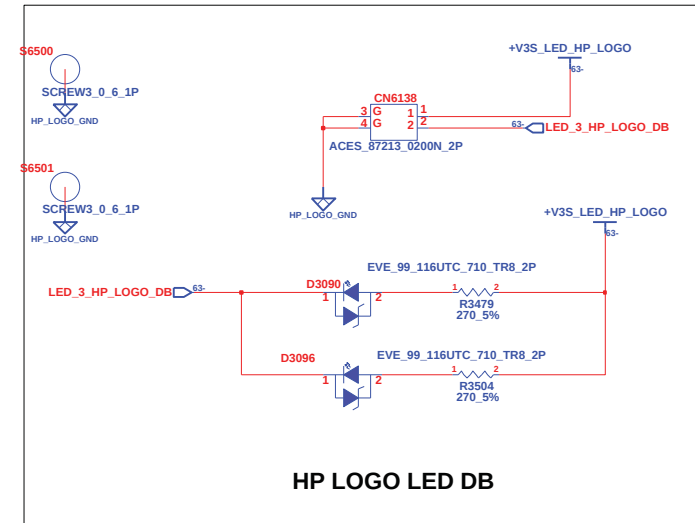
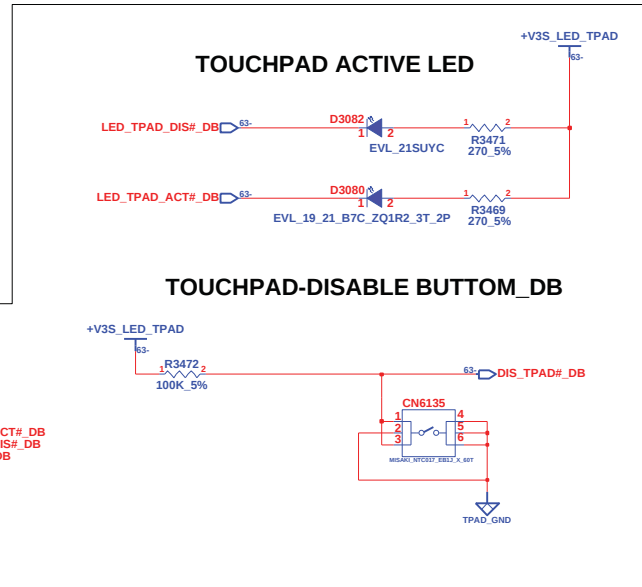
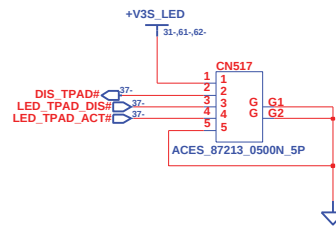
SHEET 61 OF 65

<http://hobi-elektronika.net>

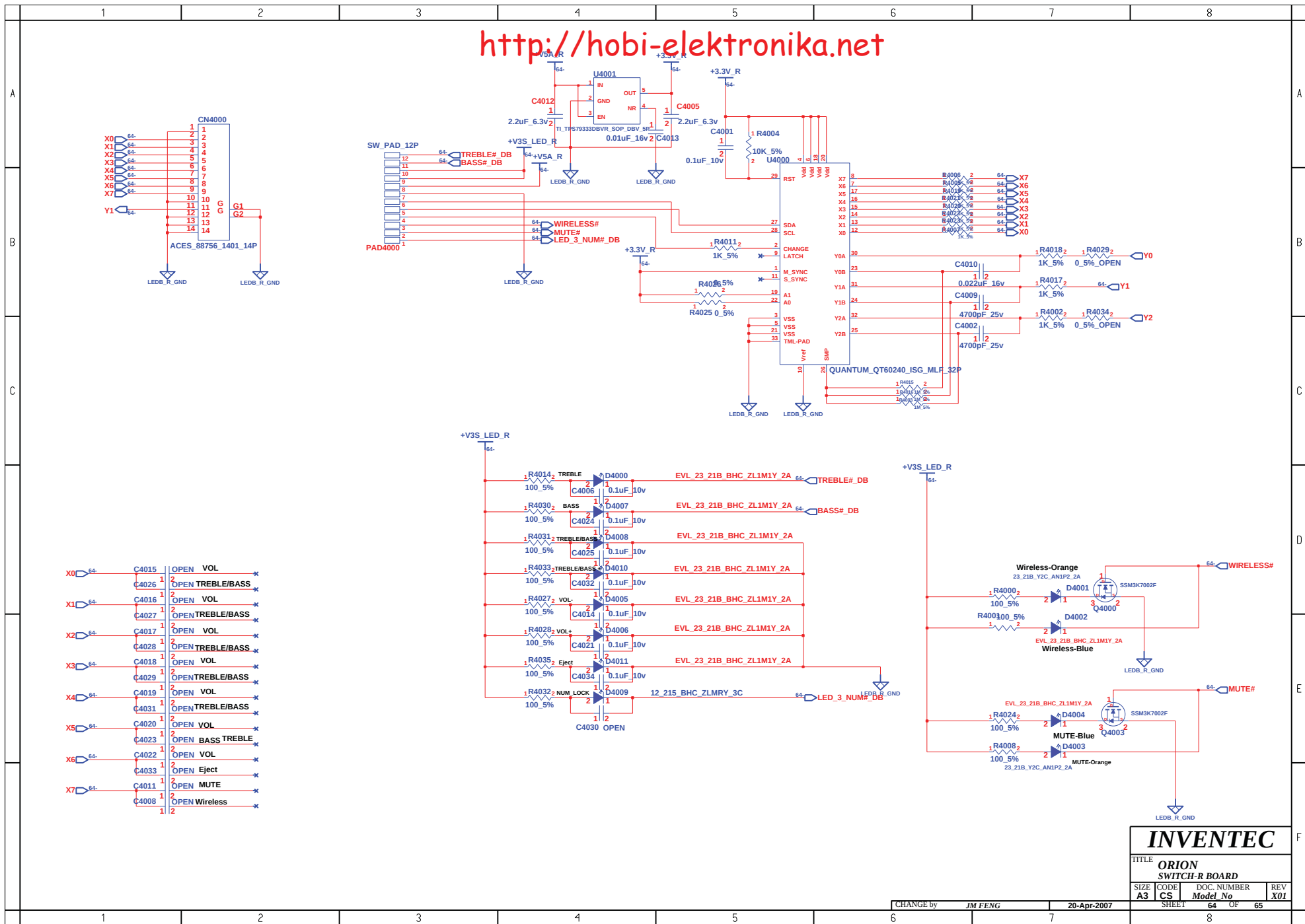


INVENTEC			
TITLE			
ORION POWER SWITCH CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
CHANGE by		28-May-2007	
SHEET		62	OF 65
		8	

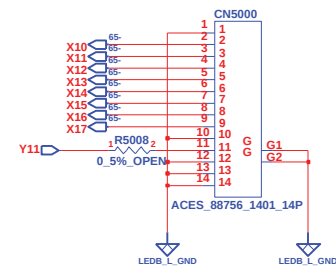
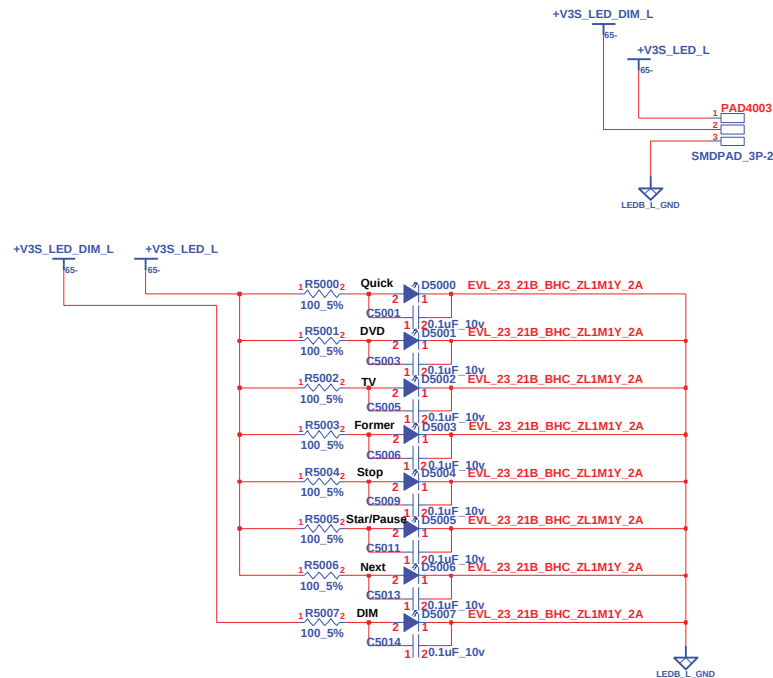
<http://hobi-elektronika.net>



INVENTEC			
TITLE			
ORION			
PWR & SWITCH & LEDS			
SIZE	CODE	DOC. NUMBER	REV
A3	CS		
CHANGE by		ORION	13-Dec-2006
SHEET		63	OF 65



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INVENTEC

TITLE			
ORION			
SWITCH-L BOARD			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by JM FENG 12-Feb-2007

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