

<http://hobi-elektronika.net>

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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TABLE OF CONTENTS

PAGE

5- DC& BATTERY CHARGER

6- BATTERY CONN

7- SYSTEM POWER(3V/5V)

8- SYSTEM POWER(+V1.8/+V1.25S)

9- SYSTEM POWER(+V1.5S/+VCCP)

10- CPU POWER(VCC_CORE)

11- DDR TERMINATION VOLTAGE

12- POWER(SLEEP)

13- POWER(SEQUENCE)

14- CLOCK_GENERATOR

15- MEROM-1

16- MEROM-2

17- MEROM-3

18- MEROM-4

19- THERMAL&FAN CONTROLLER

20- CRESTKINE-1

21- CRESTLINE-2

22- CRESTLINE-3

23- CRESTLINE-4

24- CRESTLINE-5

25- CRESTLINE-6

26- DDR2-DIMM0

27- DDR2-DIMM1

28- DDR2-DAMPING

PAGE

29- MXM CONN

30- CRT& HDMI CONN

31- LCD CONN

32- ICH8-1

33- ICH8-2

34- ICH8-3

35- ICH8-4

36- ICH8-5

37- KBC

38- CIR CONTROLLER

39- SPI BIOS

40- KEYBOARD CONN.

41- FINGER PRINTER BOARD

42- HDA CODEC

43- AUDIO JACK SENSE

44- SUBWOOFER

45- HP,MIC&7.1 JACK

46- SPEAKER CONN

47- ESATA/SATA CONN

48- ODD CONN

49- USB CONN

50- 5 IN 1/1394 CONTROLLER

PAGE

51- 5 in 1/1394 CONN

52- EXPRESSCARD CONN

53- WLAN/SPARE MINI-CARD

54- LAN INTERFACE

55- TRANSFORMER&RJ45 CONN

56- DOCKING CONN

57- SCREW

58- TV TUNER CONN

59- WABCAM CONN

60- BLUETOOTH CONN

61- PWR&LID SWITCH & LEDS

62- LED/SWITCH CONN

63- DAUGHTER BOARDS

64- SWITCH BOARD (R)

65- SWITCH BOARD (L)

INVENTEC

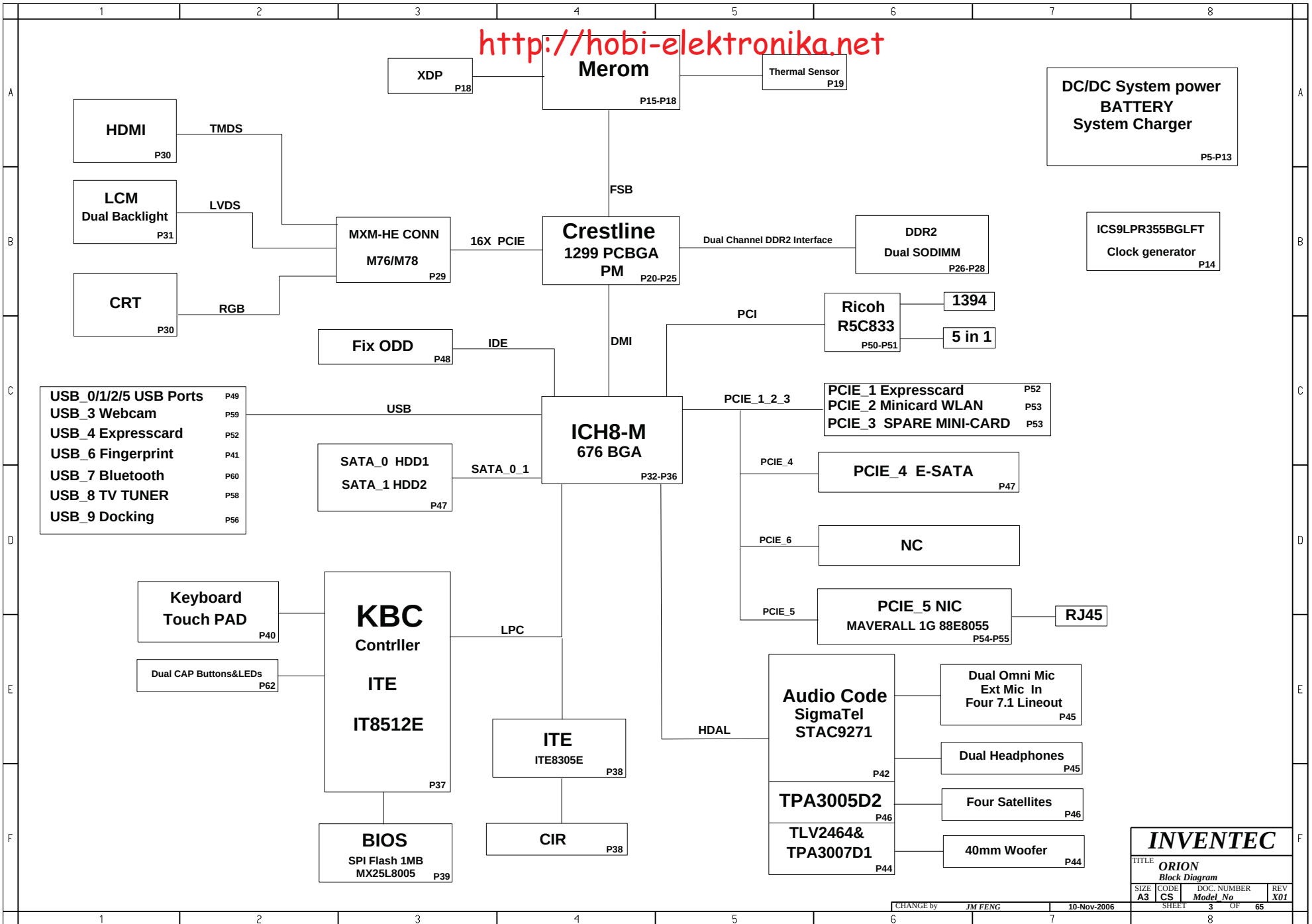
TITLE
ORION

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**

<http://hobi-elektronika.net>

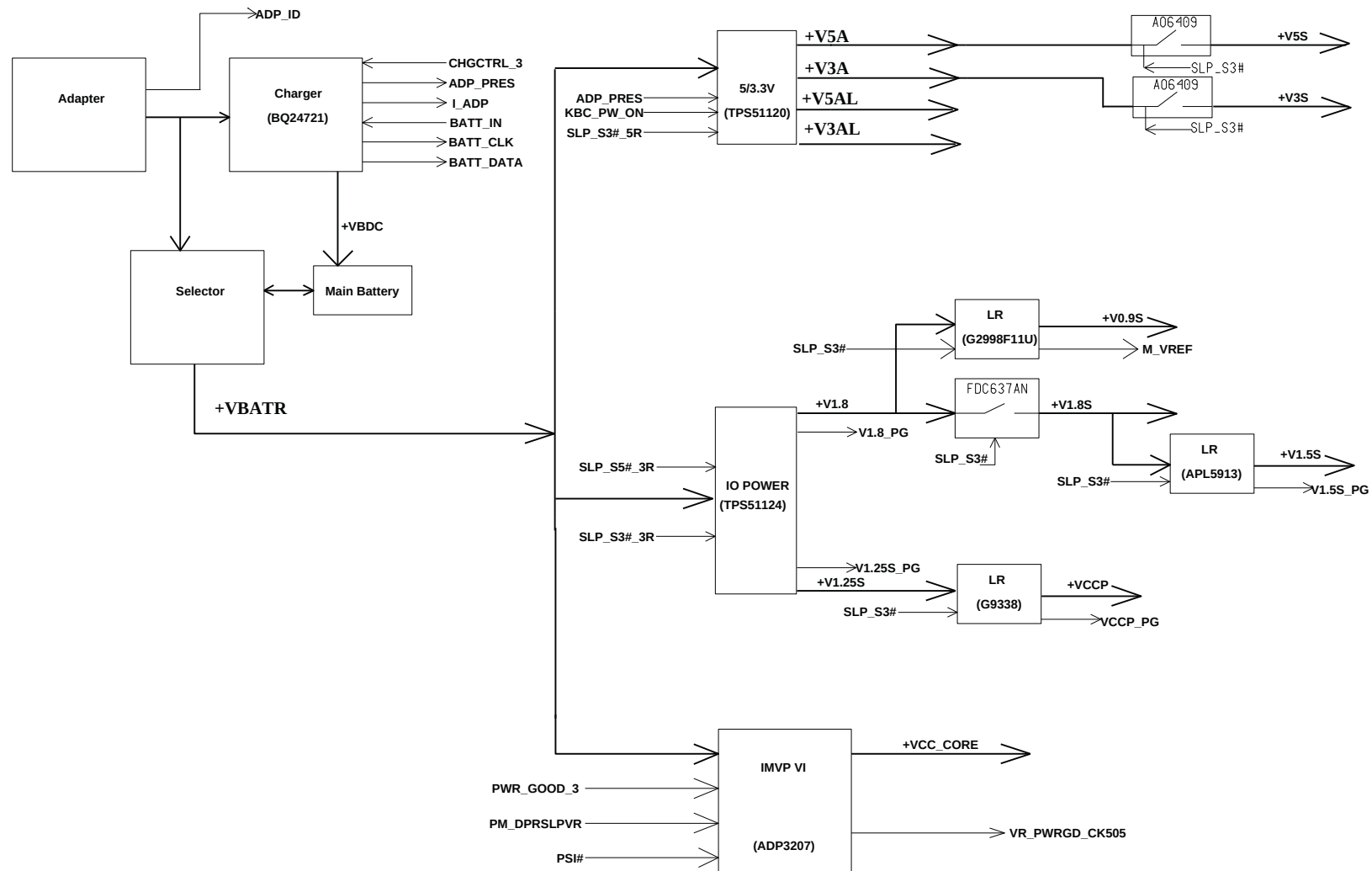


INVENTEC

TITLE			
ORION			
Block Diagram			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		3	OF 65

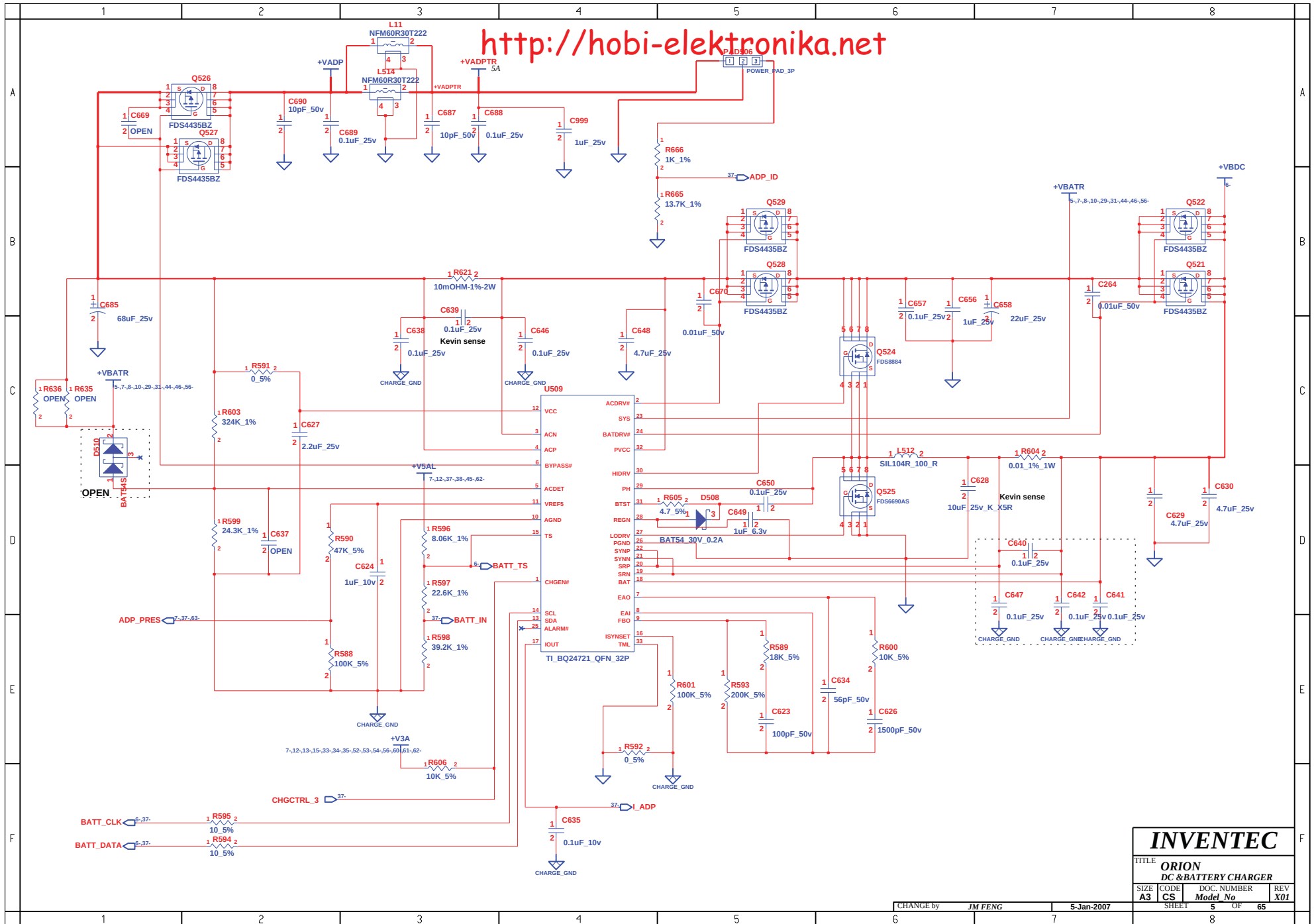
CHANGE by JM FENG 10-Nov-2006

<http://hobi-elektronika.net>



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

<http://hobi-elektronika.net>



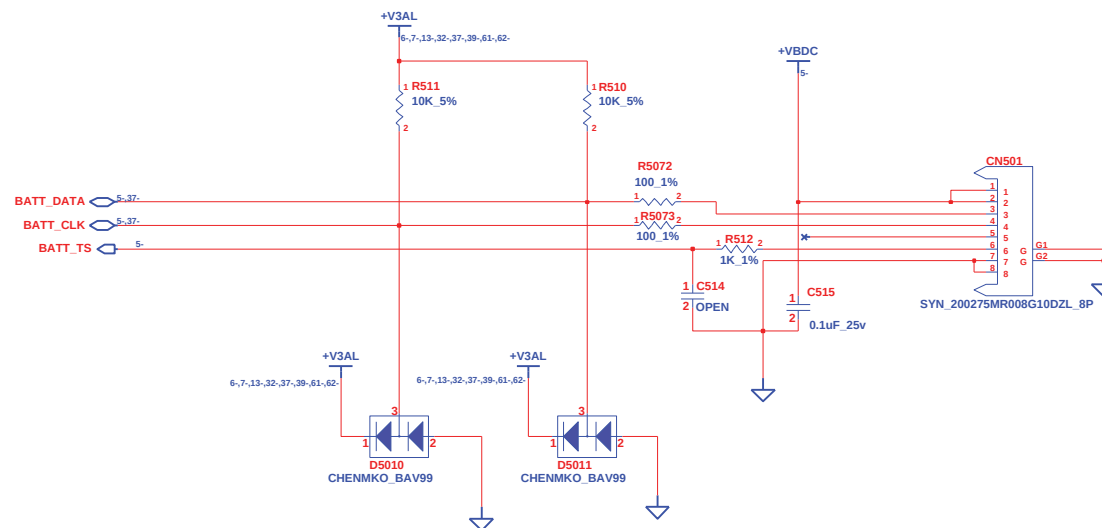
INVENTEC

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

CHANGE by JM FENG 5-Jan-2007

SHEET 5 OF 65

<http://hobi-elektronika.net>



INVENTEC

TITLE
**ORION
BATTERY CONN**

SIZE A3 CODE CS DOC. NUMBER Model No REV X01

CHANGE by JM FENG 5-Jan-2007

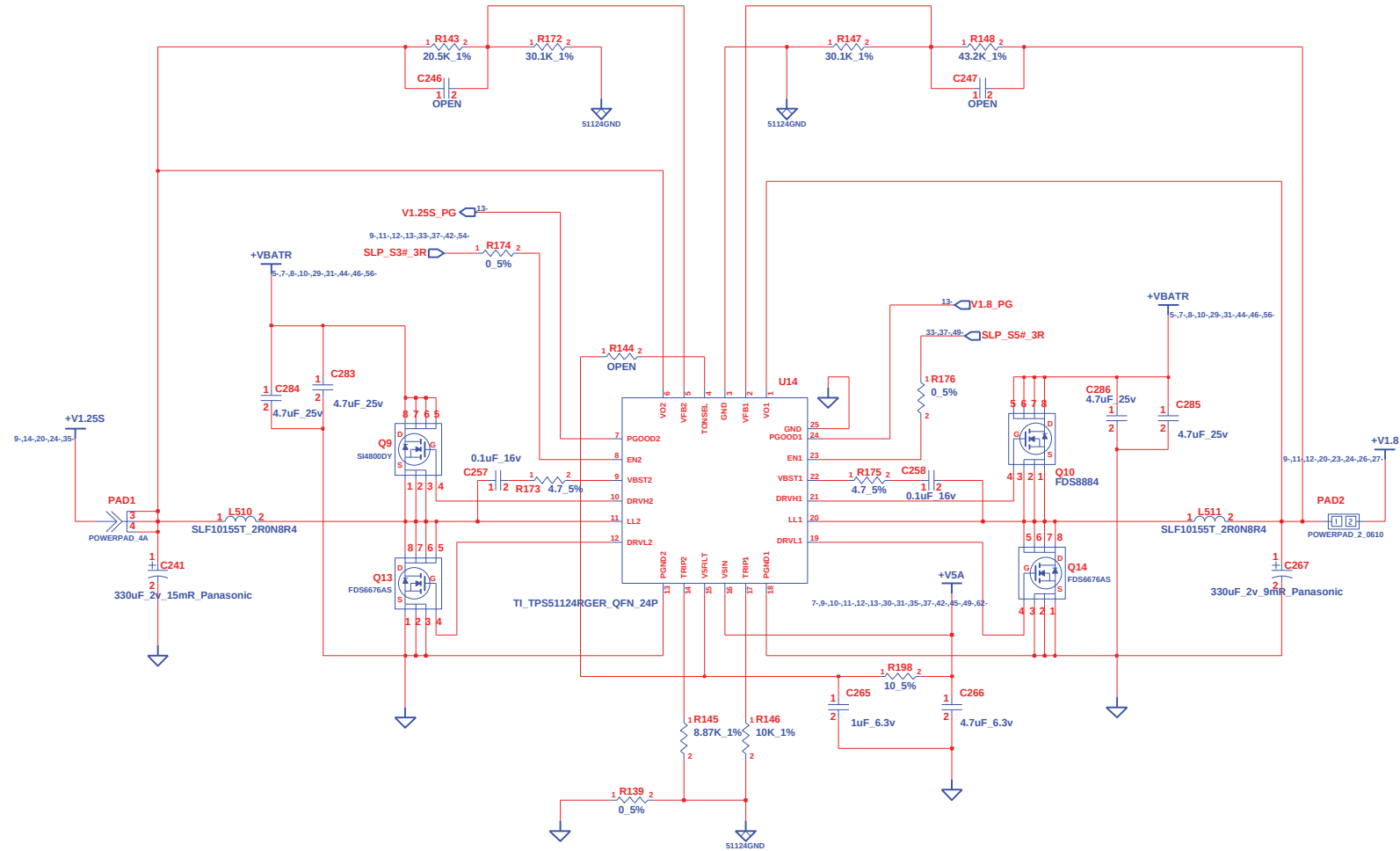
SHEET 6 OF 65

TITLE			
ORION SYSTEM POWER(3V/5V)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		7	OF 65

CHANGE by	JM FENG	21-Jun-2007
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8

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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

SHEET 8 OF 65

http://hobi-elektronika.net

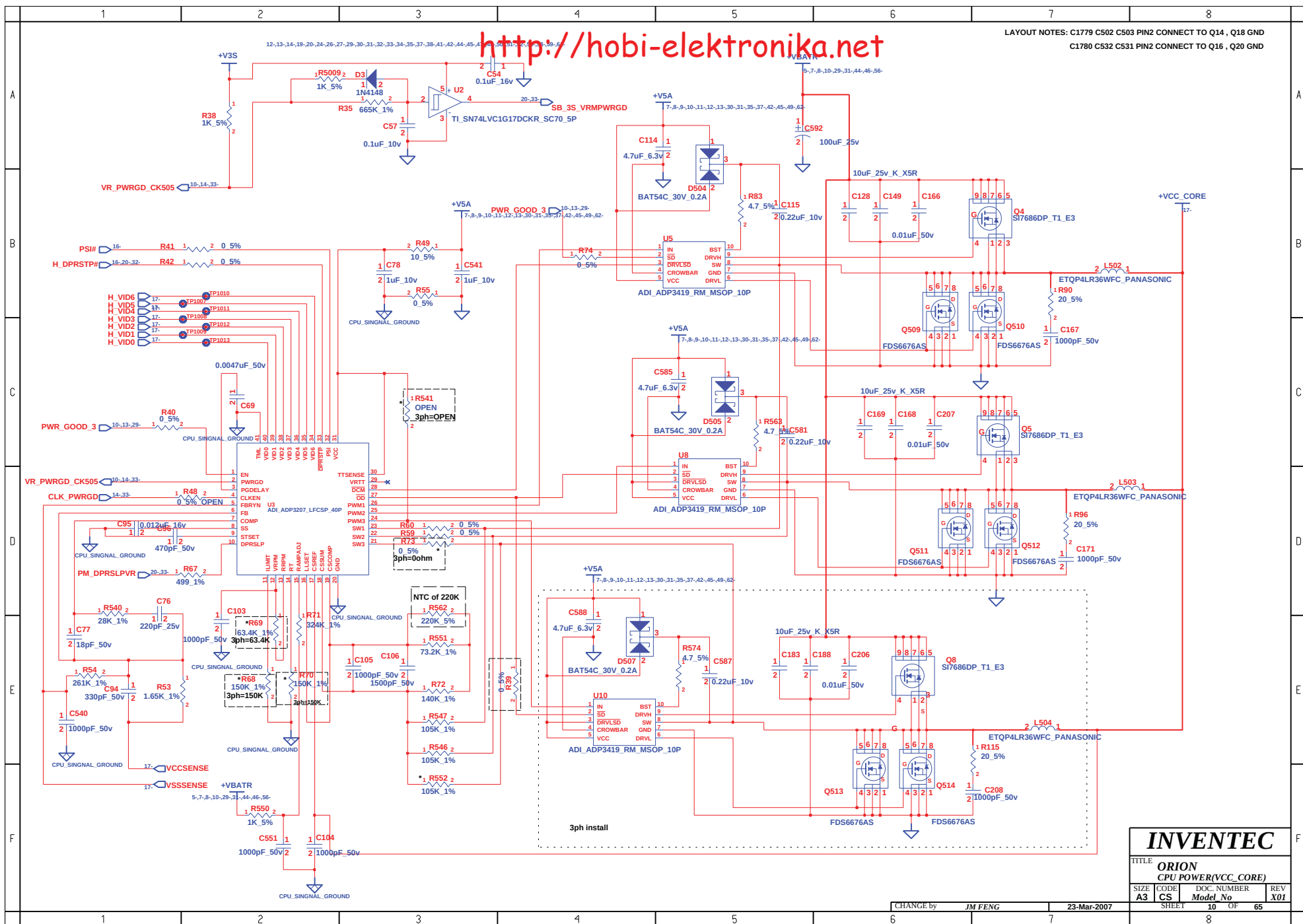
The circuit diagrams illustrate the power supply for the Orion system, featuring two main stages: a 5V regulator and a 3.3V regulator.

5V Regulator Stage (Left Diagram):

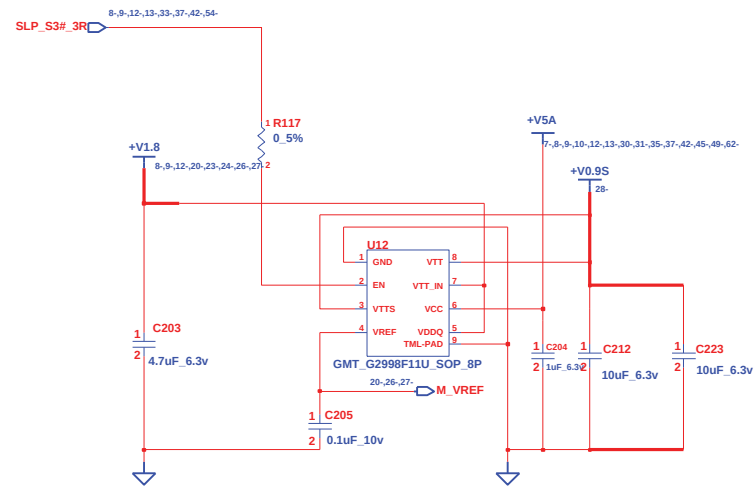
- U16:** ANPEC APL5913 KAC_TRL_SOP_8P MOSFET driver.
- U15:** LM7805 5V voltage regulator.
- Input:** +V5A (5V) and +V1.8 (1.8V).
- Output:** +V1.5S (1.5V) and +VCCP (3.3V).
- Components:** C268 (1uF 6.3V), C269 (22uF 6.3V), C287 (22uF 6.3V), C297 (1uF 6.3V), C298 (39pF 50V), R220 (27.4K 1%), R222 (30K 1%), R5056 (0.5%), R5057 (0.5%), R5058 (0.5%), R5059 (0.5%), R5060 (0.5%), R5061 (0.5%), R5062 (0.5%), R5063 (0.5%), R5064 (0.5%), R5065 (0.5%), R5066 (0.5%), R5067 (0.5%), R5068 (0.5%), R5069 (0.5%), R5070 (0.5%), R5071 (0.5%), R5072 (0.5%), R5073 (0.5%), R5074 (0.5%), R5075 (0.5%), R5076 (0.5%), R5077 (0.5%), R5078 (0.5%), R5079 (0.5%), R5080 (0.5%), R5081 (0.5%), R5082 (0.5%), R5083 (0.5%), R5084 (0.5%), R5085 (0.5%), R5086 (0.5%), R5087 (0.5%), R5088 (0.5%), R5089 (0.5%), R5090 (0.5%), R5091 (0.5%), R5092 (0.5%), R5093 (0.5%), R5094 (0.5%), R5095 (0.5%), R5096 (0.5%), R5097 (0.5%), R5098 (0.5%), R5099 (0.5%), R5100 (0.5%), R5101 (0.5%), R5102 (0.5%), R5103 (0.5%), R5104 (0.5%), R5105 (0.5%), R5106 (0.5%), R5107 (0.5%), R5108 (0.5%), R5109 (0.5%), R5110 (0.5%), R5111 (0.5%), R5112 (0.5%), R5113 (0.5%), R5114 (0.5%), R5115 (0.5%), R5116 (0.5%), R5117 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TITLE			
ORION			
SYSTEM POWER(+V1.5S/+VCCP)			
SIZE	CODE	DOC. NUMBER	REV.
A3	CS	Model No	X01

CS	Model No		
SHEET	9	OF	65



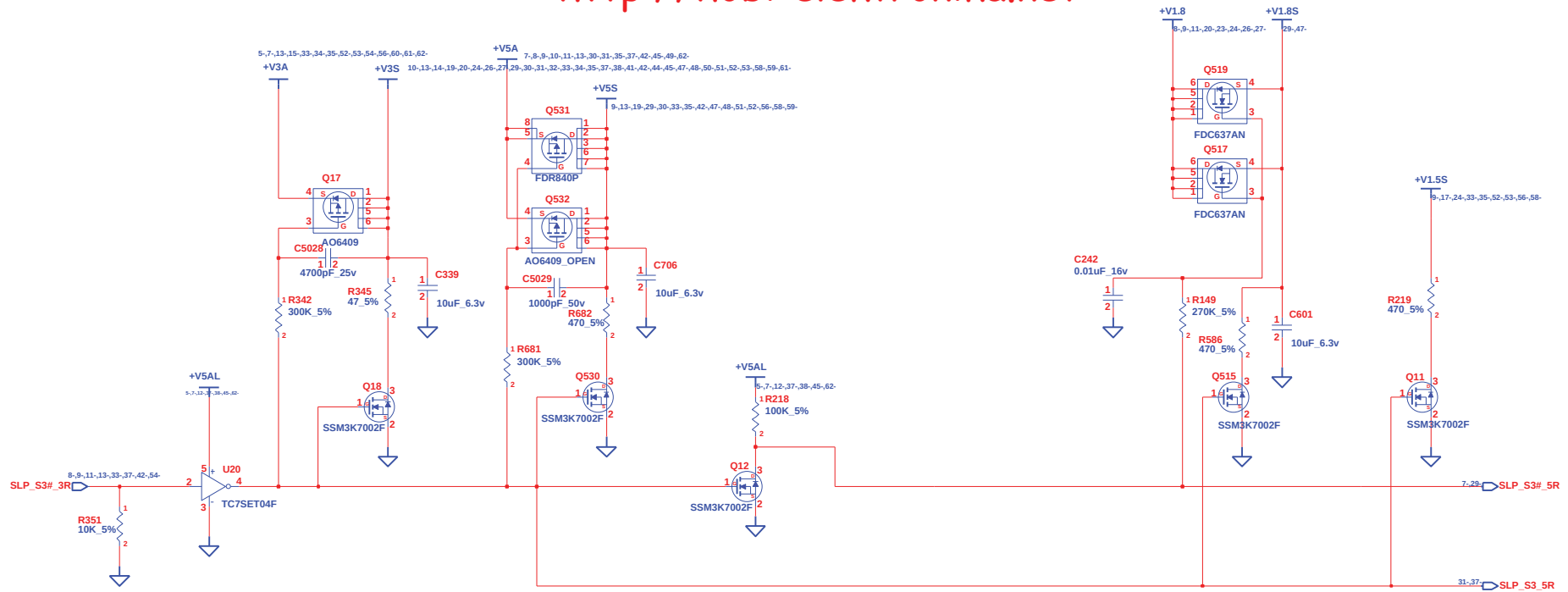
<http://hobi-elektronika.net>



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	
1		8	

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INVENTEC			
TITLE ORION POWER(SLEEP)			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01
SHEET 12 OF 65			

CHANGE by JM FENG 16-May-2007

[illegible]

TITLE			
ORION POWER(SEQUENCE)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET 13 OF 65			

SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV X01
SHEET		13	OF 65

<http://hobi-elektronika.net>

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

GMCH CPU ICH8 +VCCP

PM_THRMTRIP# should be T at CPU

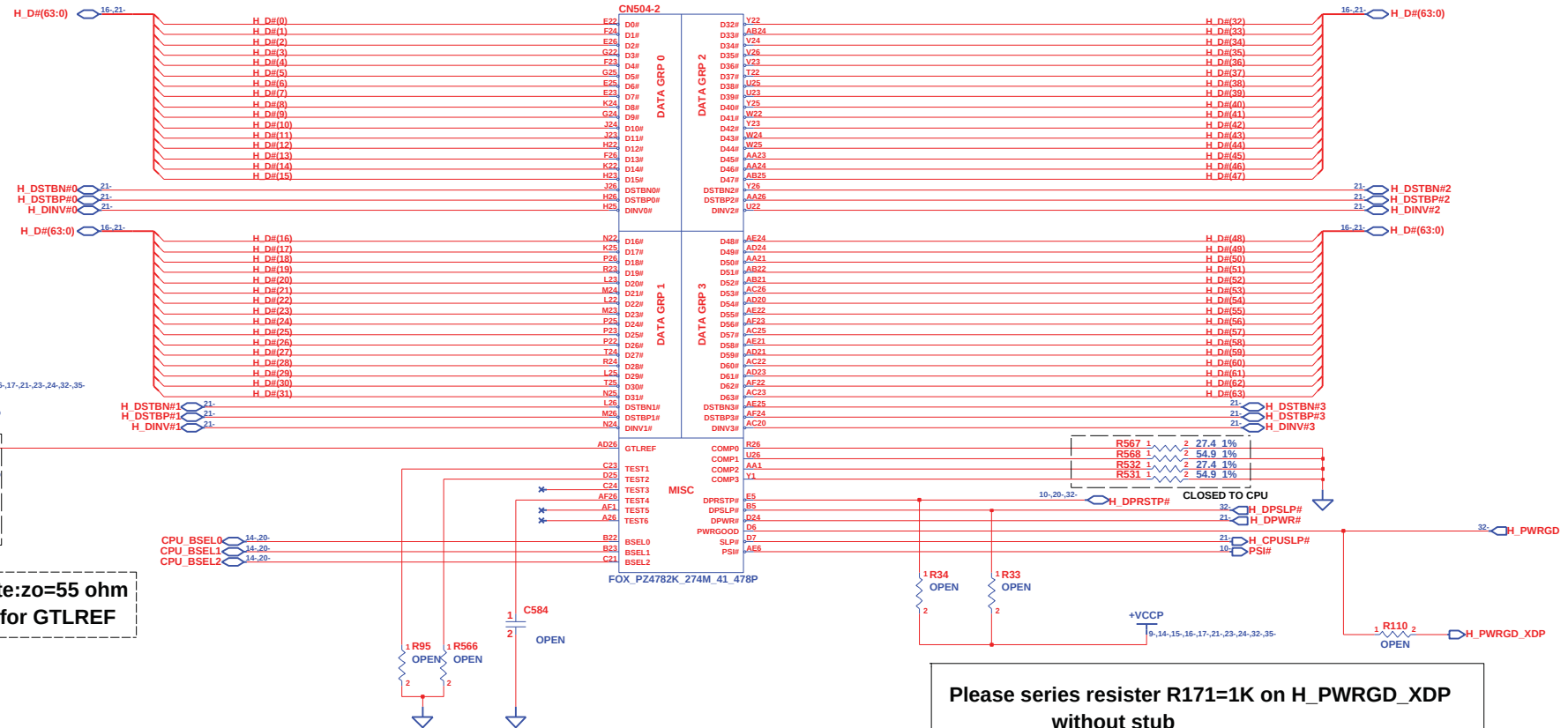
TITLE			
ORION MEROM-1			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	<i>Model No</i>	X01

PM_THRMTRIP# should be T at CPU

CHANGE by	JM FENG	23-Apr-2007
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CS Model No. 15 OF 65
8

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INVENTEC

TITLE			
ORION MEROM-2			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		16	OF 65

CHANGE by JM FENG 25-Oct-2006

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PCB layout for the ORION MEROM-3 board. The layout shows various components including capacitors (C88-C145, C549-C577, C544-C555), resistors (R537, R534), and a central connector (CN504-3). It includes power planes (+VCC_CORE, +VCCP, +V1.5S) and signal traces. Annotations specify component placement in sockets and cavities, and provide layout notes for routing and component placement.

COMPONENT PLACEMENT INSTRUCTIONS:

- PLACE THESE INSIDE SOCKET CAVITY ON L8 (NORTH SIDE SECONDARY)
- PLACE THESE INSIDE SOCKET CAVITY ON L8 (SOUTH SIDE SECONDARY)
- PLACE THESE INSIDE SOCKET CAVITY ON L1 (NORTH SIDE PRIMARY)
- PLACE THESE INSIDE SOCKET CAVITY ON L1 (SOUTH SIDE SECONDARY)
- SOUTH SIDE SECONDARY
- NORTH SIDE SECONDARY

LAYOUT NOTES:

- ROUTE VCCSENSE AND VSSSENSE TRACE AT 24.7 OHM WITH 50 MIL SPACING
- PLACE PU AND PD WITHIN 1 INCH OF CPU
- PLACE C240 NEAR PIN B26

INVENTEC

TITLE ORION MEROM-3

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by JM FENG 27-Dec-2006

SHEET 17 OF 65

TITLE			
ORION MEROM-3			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	<i>Model No</i>	<i>X01</i>
SHEET		17	OF 65

CHANGE by	JM FENG	27-Dec-2006
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CN504-4

A4 VS0001
A8 VS0002
A11 VS0003
A14 VS0004
A16 VS0005
A19 VS0006
A23 VS0007
AF2 VS0008
B6 VS0009
B8 VS0010
B11 VS0011
B13 VS0012
B16 VS0013
B19 VS0014
B21 VS0015
B24 VS0016
C5 VS0017
C8 VS0018
C11 VS0019
C14 VS0020
C16 VS0021
C19 VS0022
C2 VS0023
C22 VS0024
C24 VS0025
D1 VS0026
D4 VS0027
D8 VS0028
D11 VS0029
D13 VS0030
D16 VS0031
D19 VS0032
D23 VS0033
D26 VS0034
E3 VS0035
E6 VS0036
E8 VS0037
E11 VS0038
E14 VS0039
E16 VS0040
E19 VS0041
E21 VS0042
E24 VS0043
F3 VS0044
F8 VS0045
F11 VS0046
F13 VS0047
F16 VS0048
F19 VS0049
F2 VS0050
F22 VS0051
F26 VS0052
G4 VS0053
G1 VS0054
G23 VS0055
G26 VS0056
H3 VS0057
H6 VS0058
H11 VS0059
H24 VS0060
J2 VS0061
J5 VS0062
J22 VS0063
J25 VS0064
K1 VS0065
K4 VS0066
K23 VS0067
K26 VS0068
L3 VS0069
L6 VS0070
L21 VS0071
L24 VS0072
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N4 VS0078
N23 VS0079
N26 VS0080
P3 VS0081

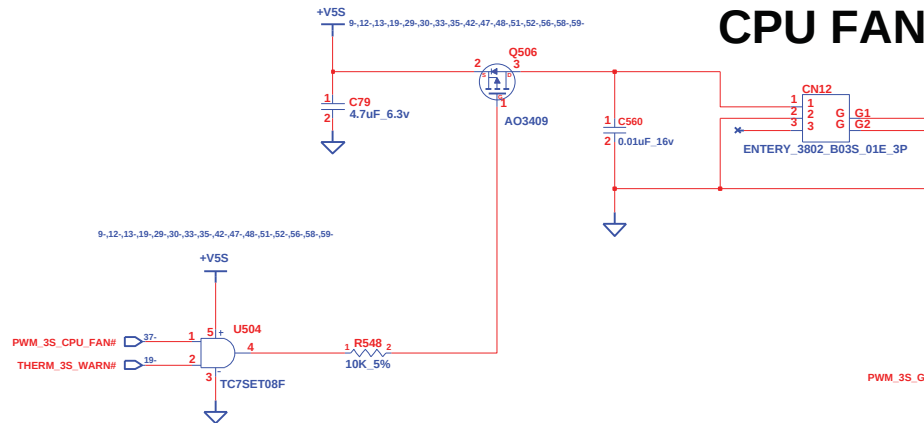
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FOX_PZ4782K_274M_41_478P

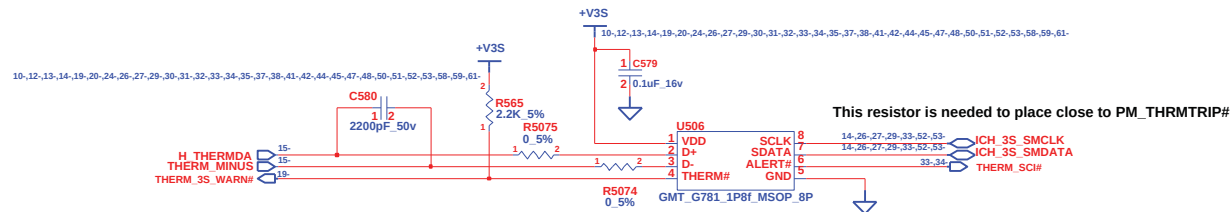
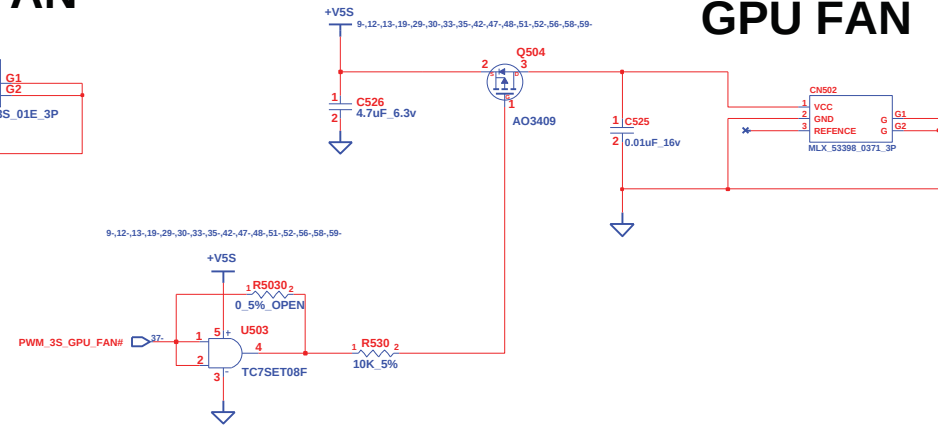
INVENTEC			
TITLE ORION MEROM-4			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01
CHANGE by JM FENG		9-Feb-2007	
SHEET 18		OF 65	

<http://hobi-elektronika.net>

CPU FAN



GPU FAN



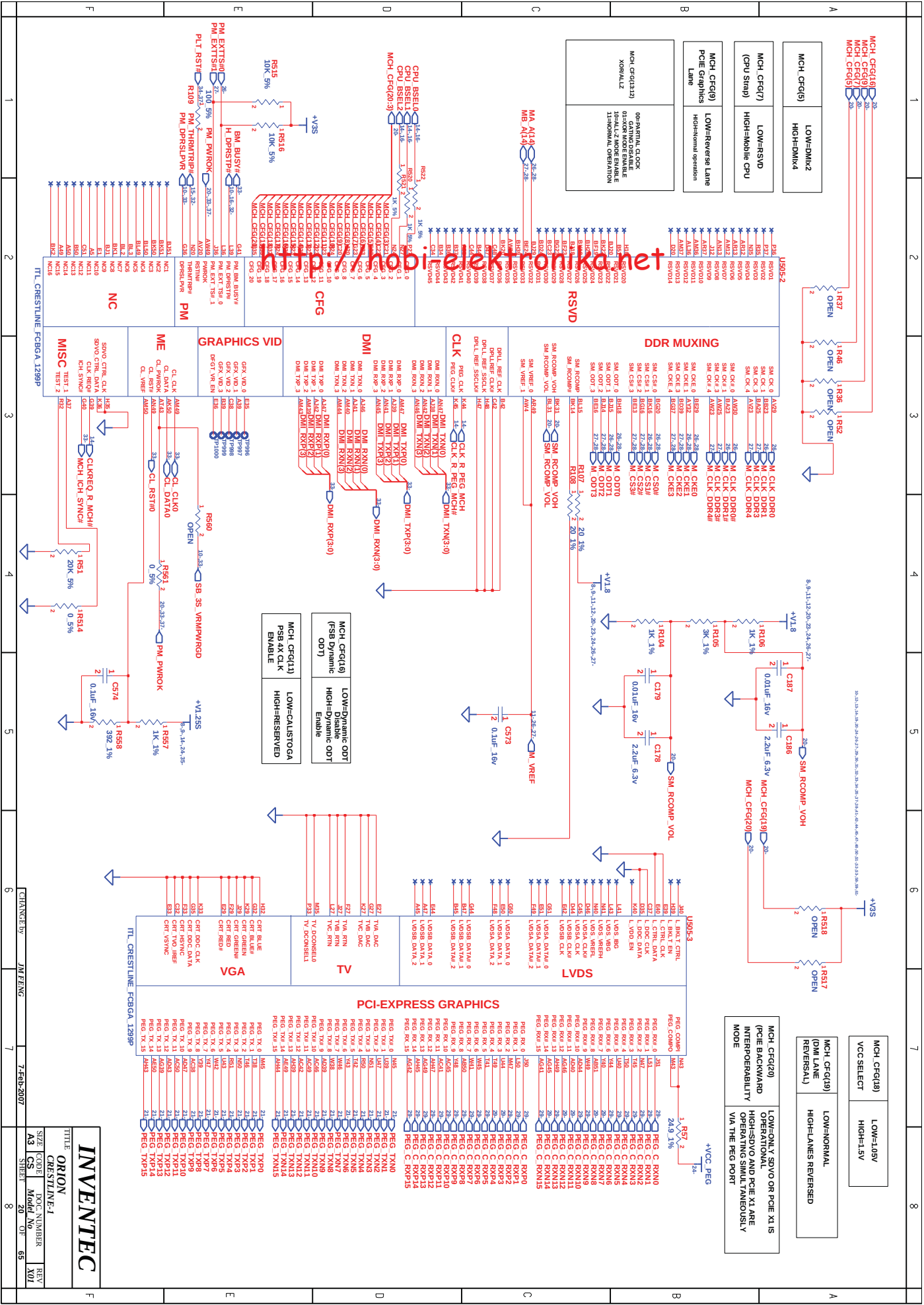
LAYOUT NOTES: PUT THE THERMAL SENSOR CLOSE TO CPU

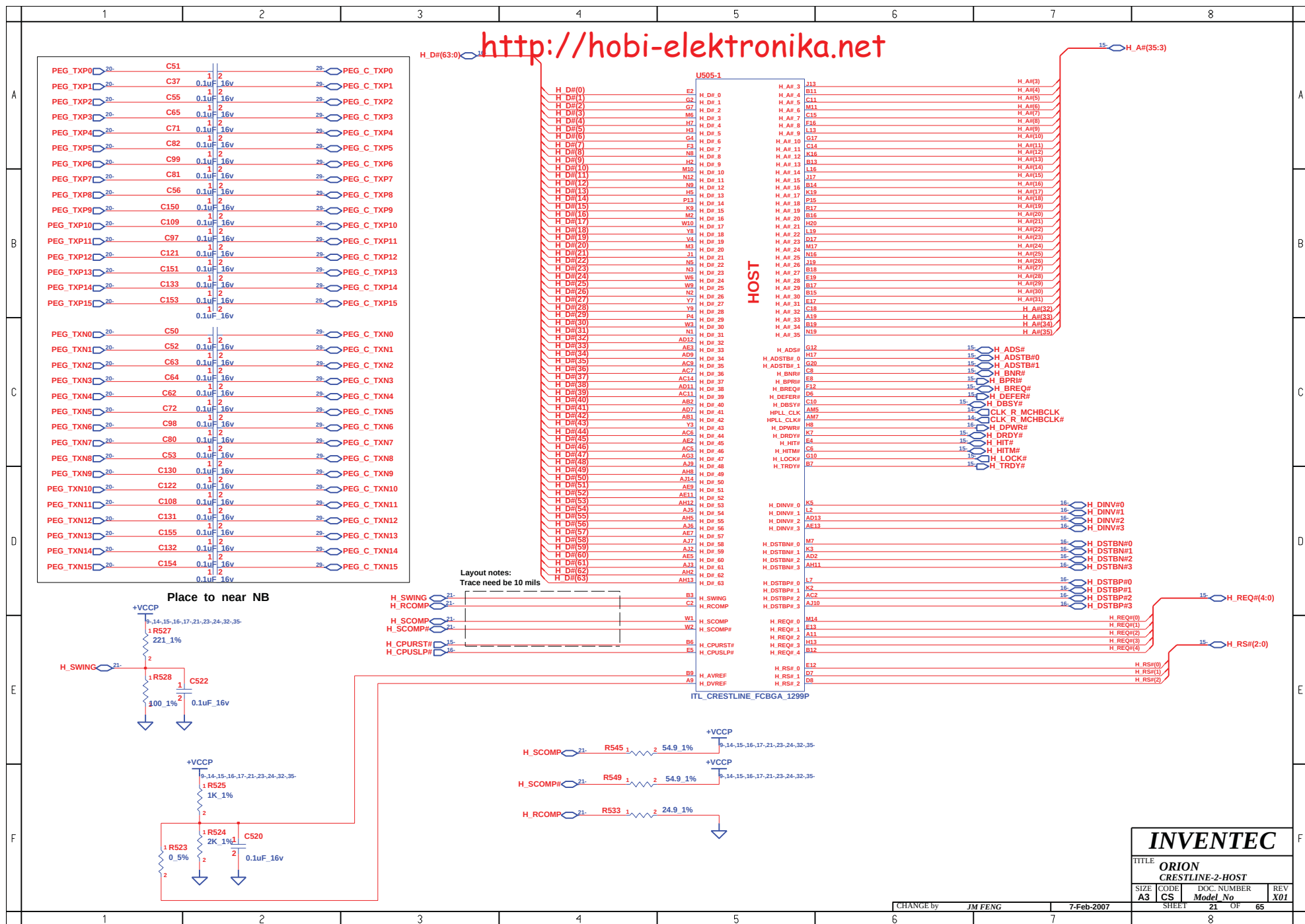
INVENTEC

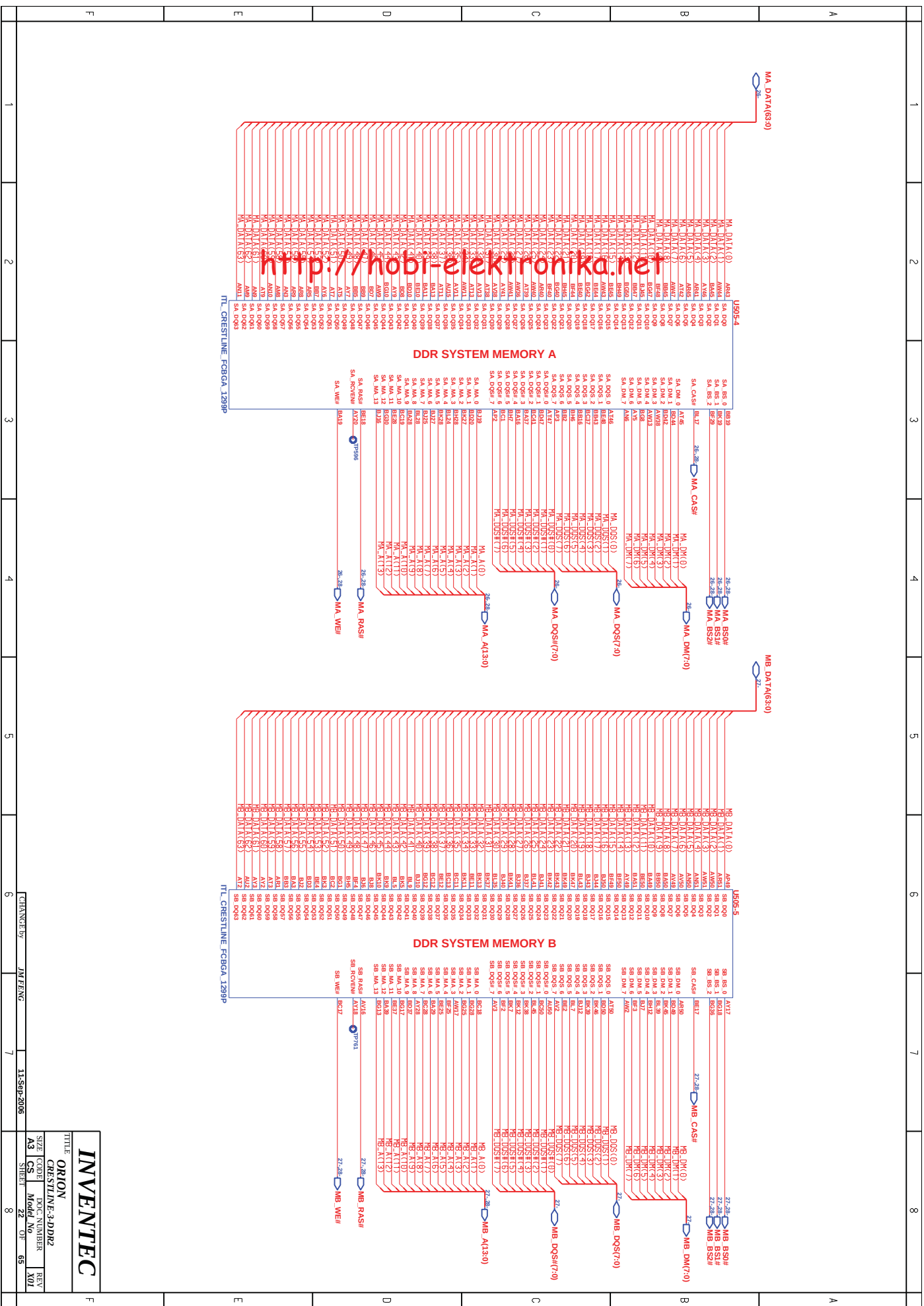
TITLE			
ORION			
THERMAL&FAN CONTROLLER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by JM FENG 16-May-2007

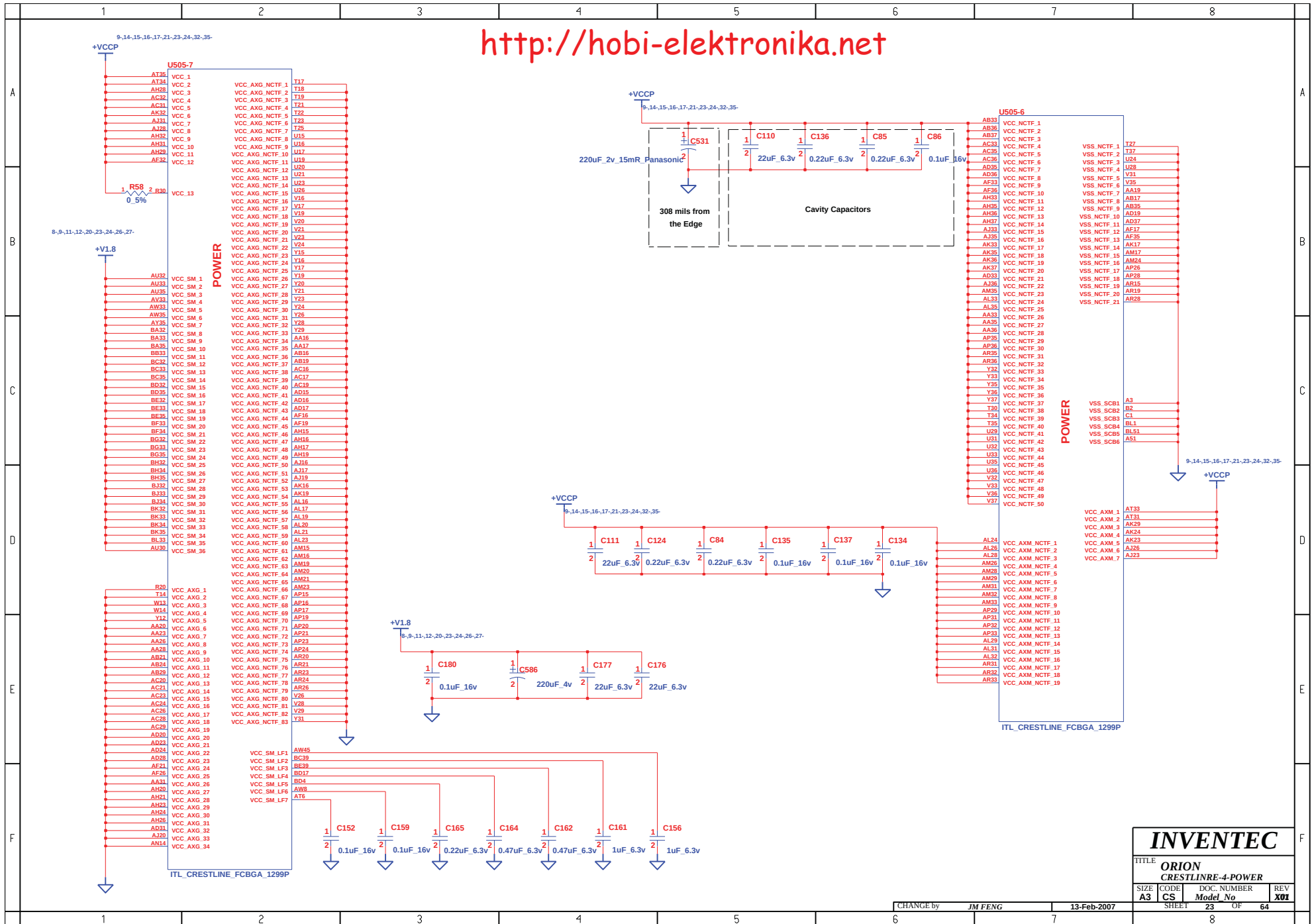
SHEET 19 OF 65







<http://hobi-elektronika.net>



INVENTEC

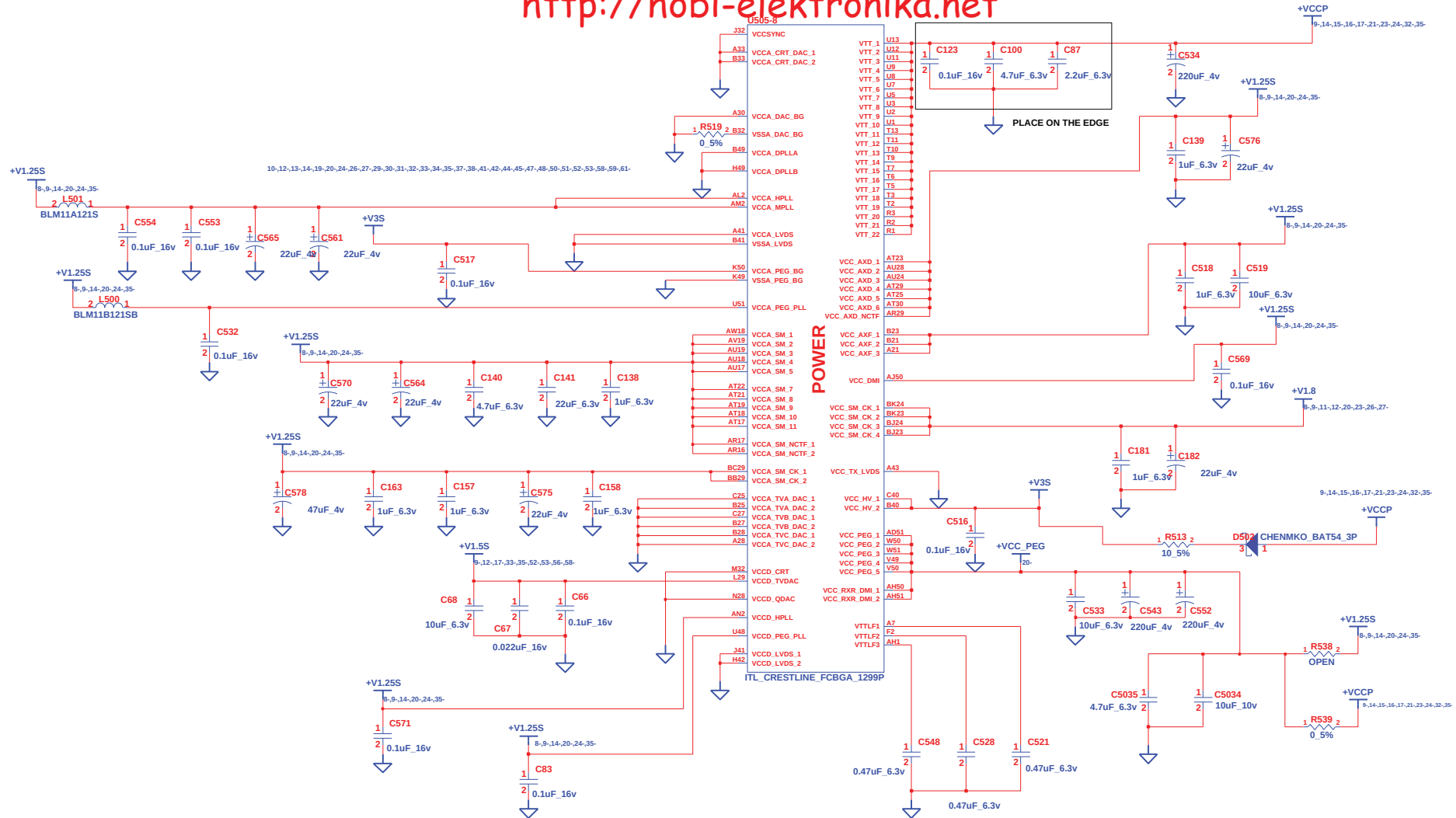
TITLE			
ORION			
CRESTLINRE-4-POWER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		23	OF 64

CHANGE by JM FENG

13-Feb-2007

8

<http://hobi-elektronika.net>



INVENTEC

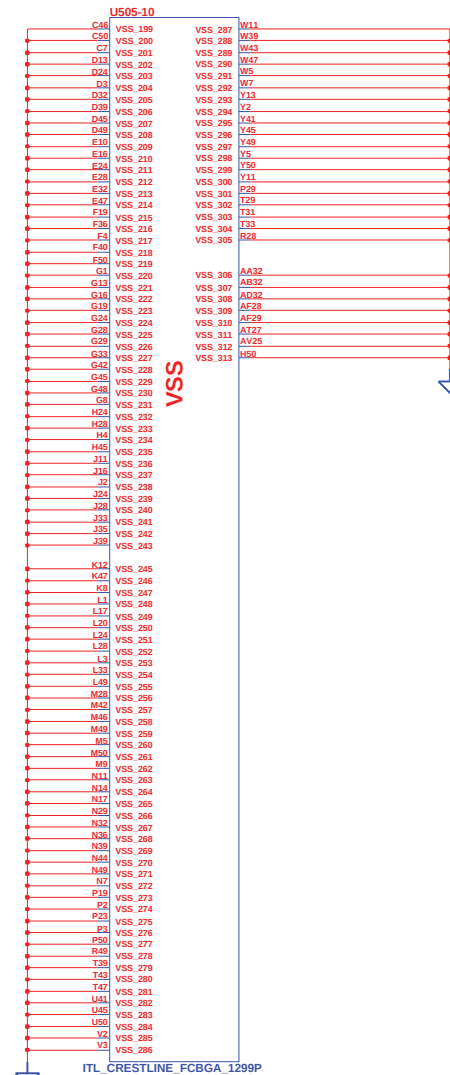
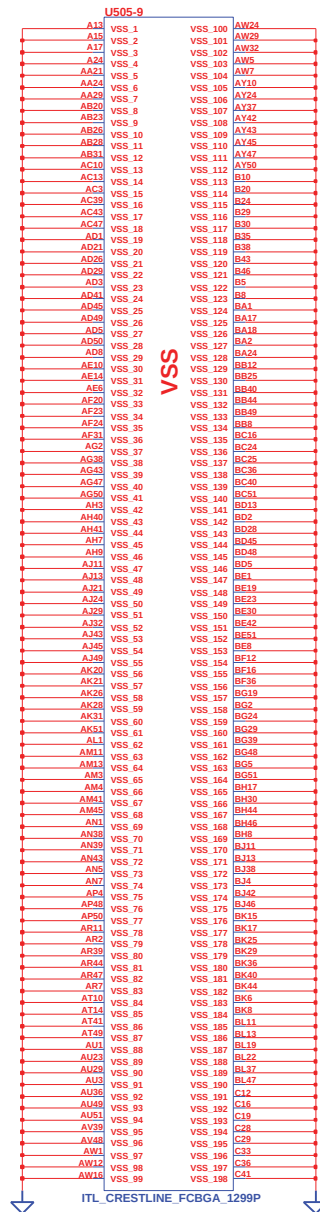
TITLE
ORION
CRESTLINE-5-POWER

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

CHANGE by **JM FENG** 30-Nov-2007

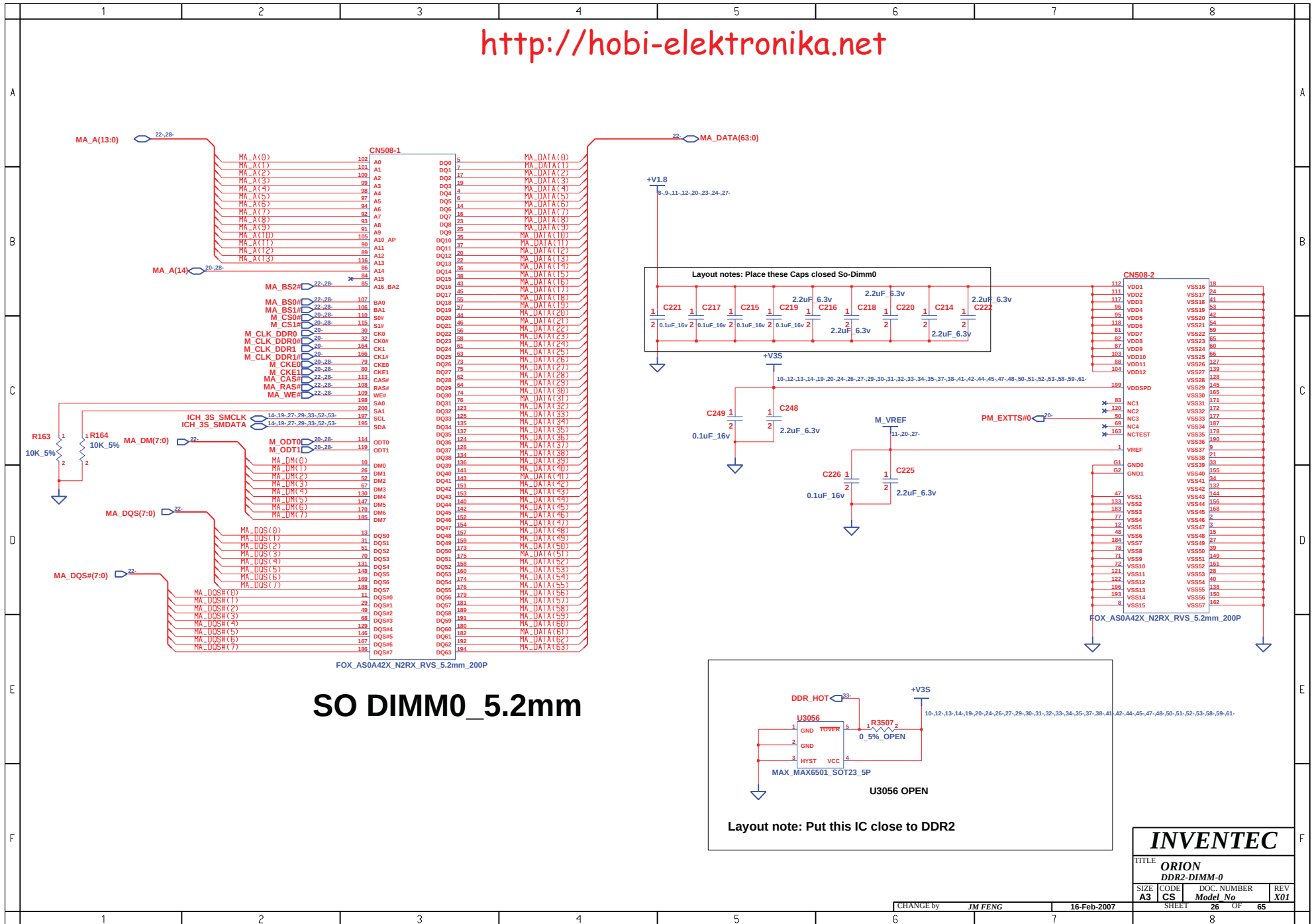
SHEET 24 OF 65

<http://hobi-elektronika.net>



INVENTEC			
TITLE ORION CRESTLINE-6-POWER			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01
CHANGE by JM FENG		11-Sep-2006	
SHEET 25		OF 64	

<http://hobi-elektronika.net>



http://hobi-elektronika.net

SO DIMM1 9.2mm

Layout note: Place these Caps closed So-Dimm1

Layout note: Place these Hi_Feq & Resistors closed GMCH

INVENTEC

TITLE ORION
DDR2-DIMM-1

SIZE CODE CS DOC. NUMBER REV
A3 Model No X01

SHEET 27 OF 65

<http://hobi-elektronika.net>

SO DIMM1 9.2mm

Layout note: Place these Caps closed So-Dimm1

Layout note: Place these Hi_Feq & Resistors closed GMCH

INVENTEC

TITLE ORION
DDR2-DIMM-1

SIZE CODE CS DOC. NUMBER REV
A3 Model No X01

SHEET 27 OF 65

CHANGE by JM FENG 11-Dec-2006

The schematic diagram illustrates the electrical connections for an SO DIMM1 9.2mm module. It features two main sections: one for the memory array pins (MB_A(0) to MB_A(13), MB_DATA(0) to MB_DATA(63)) and another for control and status pins (MB_CLK, MB_DQS, MB_WE#, MB_ODT, etc.). The diagram includes detailed pin lists for both sides of the module, component values for capacitors (C197-C201, C261-C262, C259) and resistors (R213, R212), and specific layout instructions for placing components close to the DIMM1 and GMCH. A reference to FOX AS0A426 NARN 7F_200P is provided at the bottom.

[illegible]

http://hobi-elektronika.net

SO DIMM1 9.2mm

Layout note: Place these Caps closed So-Dimm1

Layout note: Place these Hi_Feq & Resistors closed GMCH

INVENTEC

TITLE ORION
DDR2-DIMM-1

SIZE CODE CS DOC. NUMBER REV
A3 Model No X01

SHEET 27 OF 65

CHANGE by JM FENG 11-Dec-2006

[illegible][illegible]

http://hobi-elektronika.net

SO DIMM1 9.2mm

Layout note: Place these Caps closed So-Dimm1

Layout note: Place these Hi_Feq & Resistors closed GMCH

INVENTEC

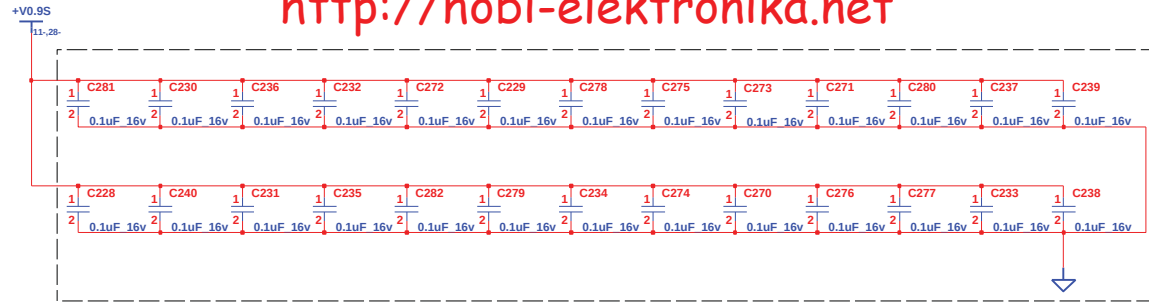
TITLE ORION
DDR2-DIMM-1

SIZE CODE CS DOC. NUMBER REV
A3 Model No X01

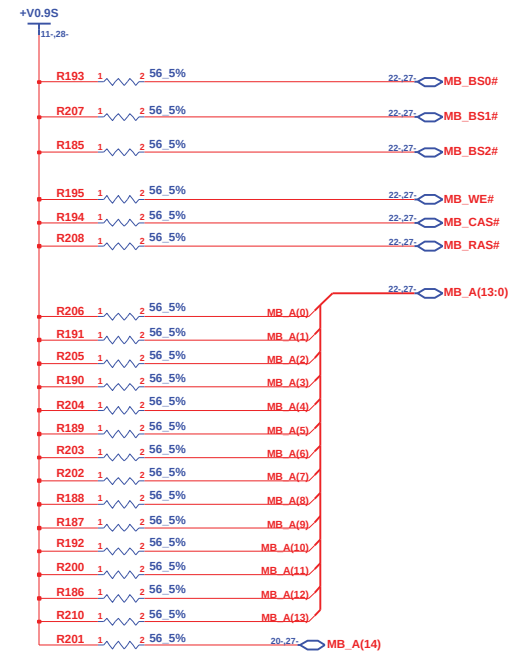
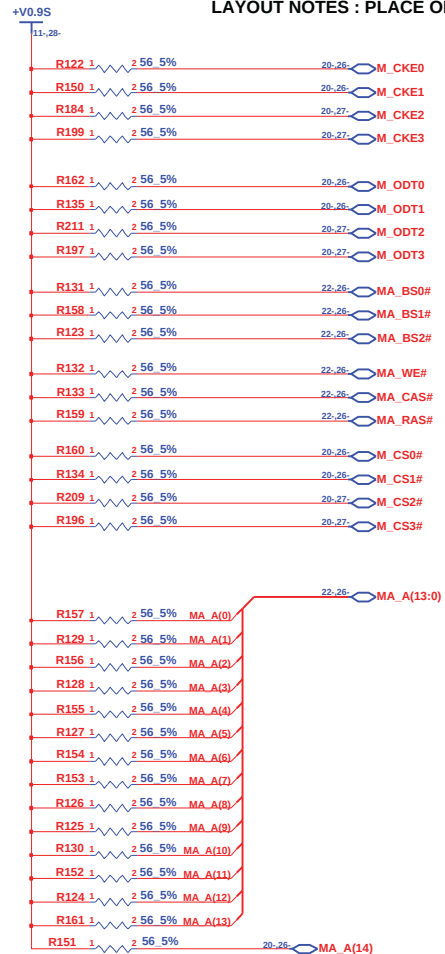
SHEET 27 OF 65

CHANGE by JM FENG 11-Dec-2006

<http://hobi-elektronika.net>

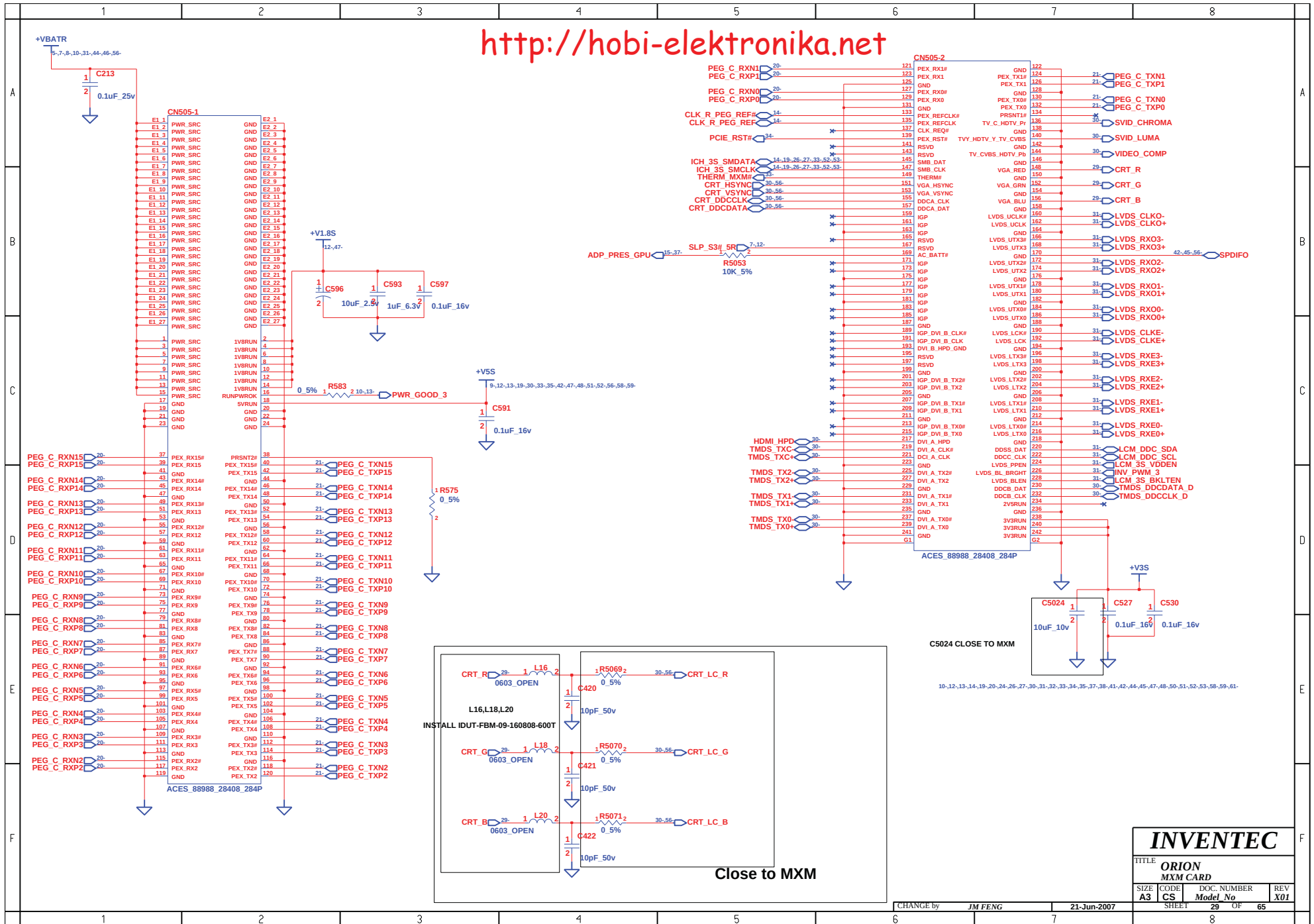


LAYOUT NOTES : PLACE ONE CAP CLOSE TO EVERY 2 PULL UP RESISTOR TERMINATED TO +V0.9S



INVENTEC			
TITLE ORION			
DDR2-DAMPING			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01
CHANGE by JM FENG		3-Oct-2006	
SHEET 28		OF 65	

<http://hobi-elektronika.net>

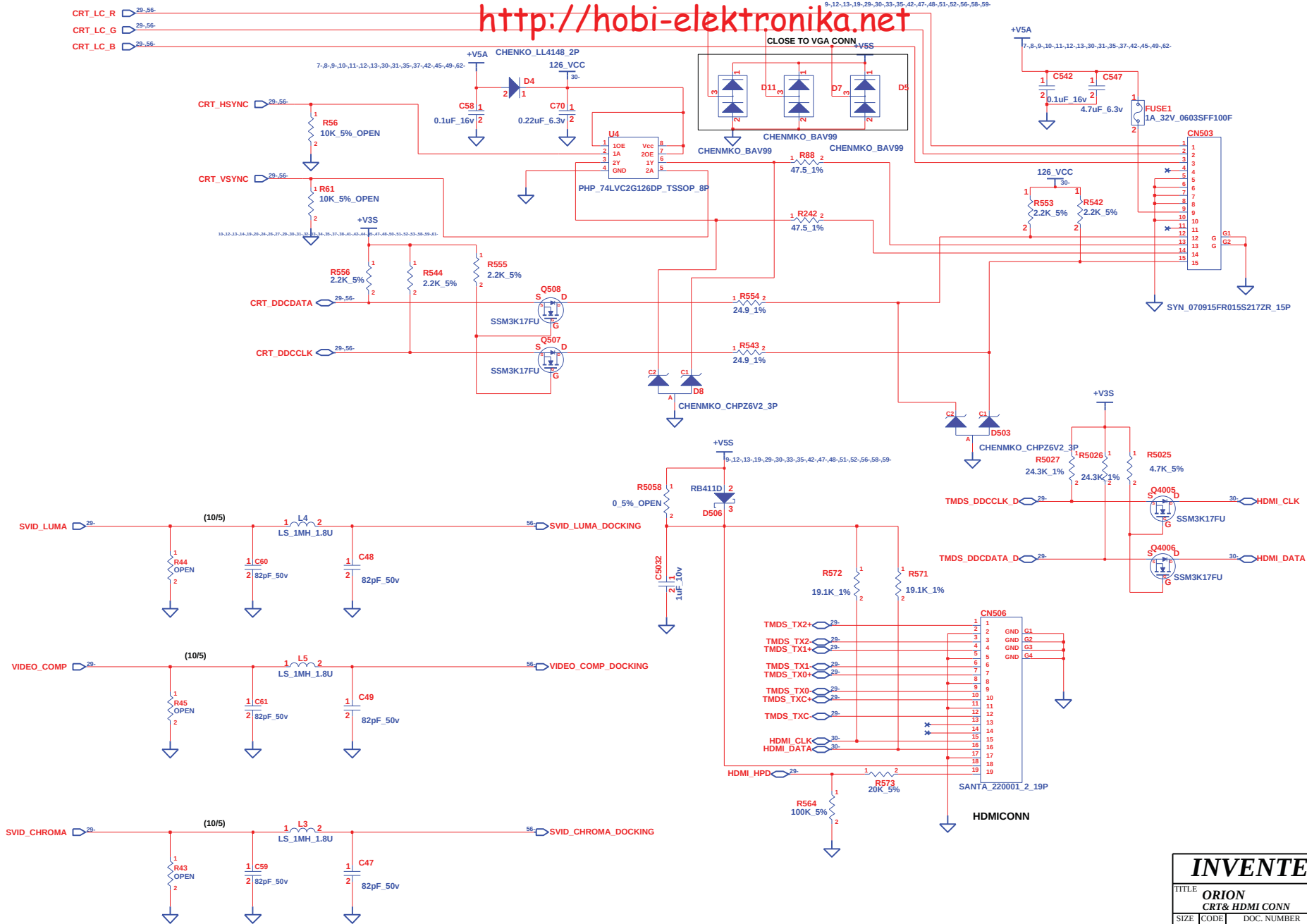


INVENTEC

TITLE ORION MXM CARD				
SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01	
SHEET		29	OF	65

CHANGE by JM FENG 21-Jun-2007

<http://hobi-elektronika.net>



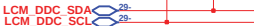
INVENTEC

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

CHANGE by JM FENG 16-May-2007

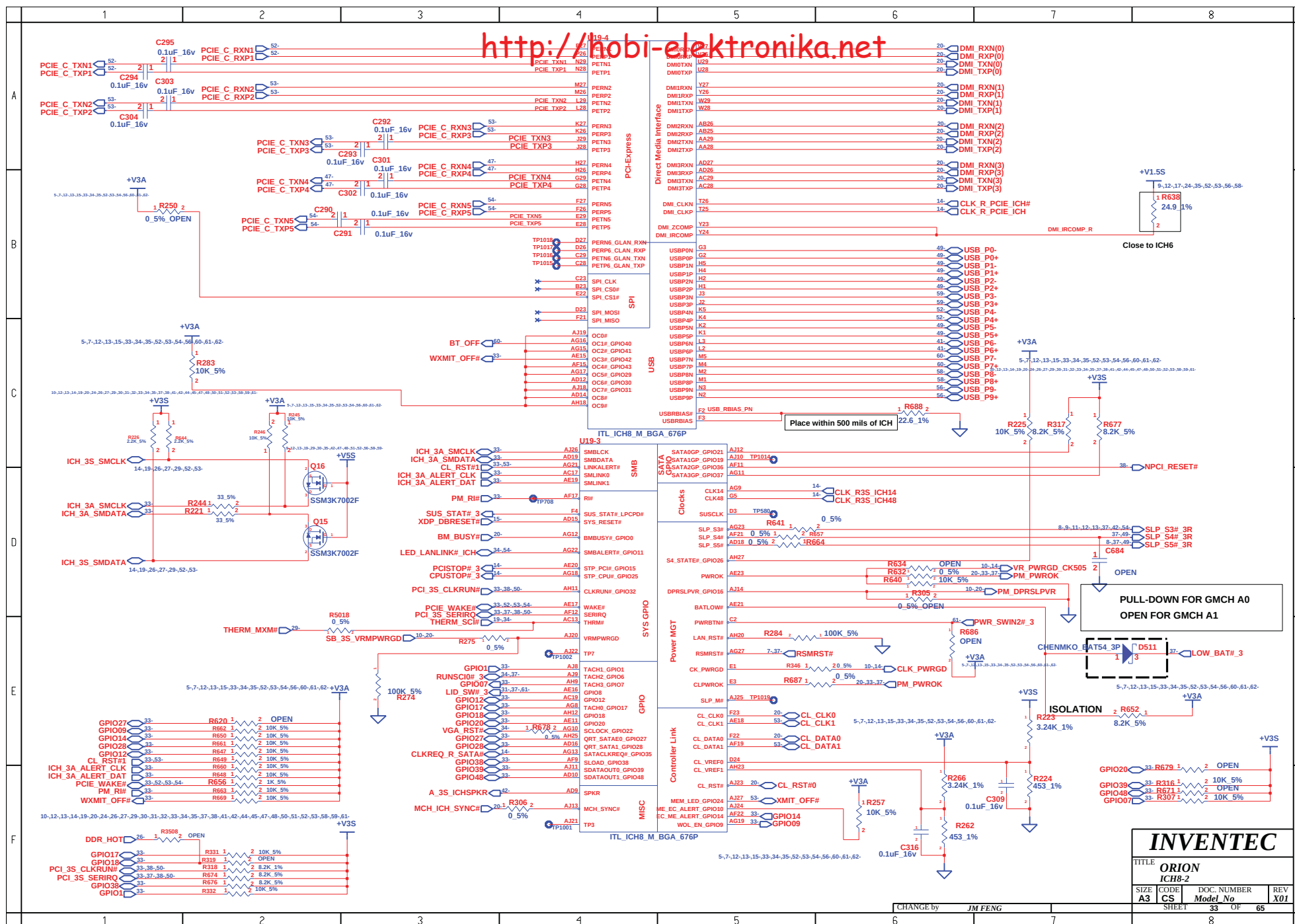
SHEET 30 OF 65

Place closed to connector

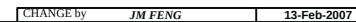


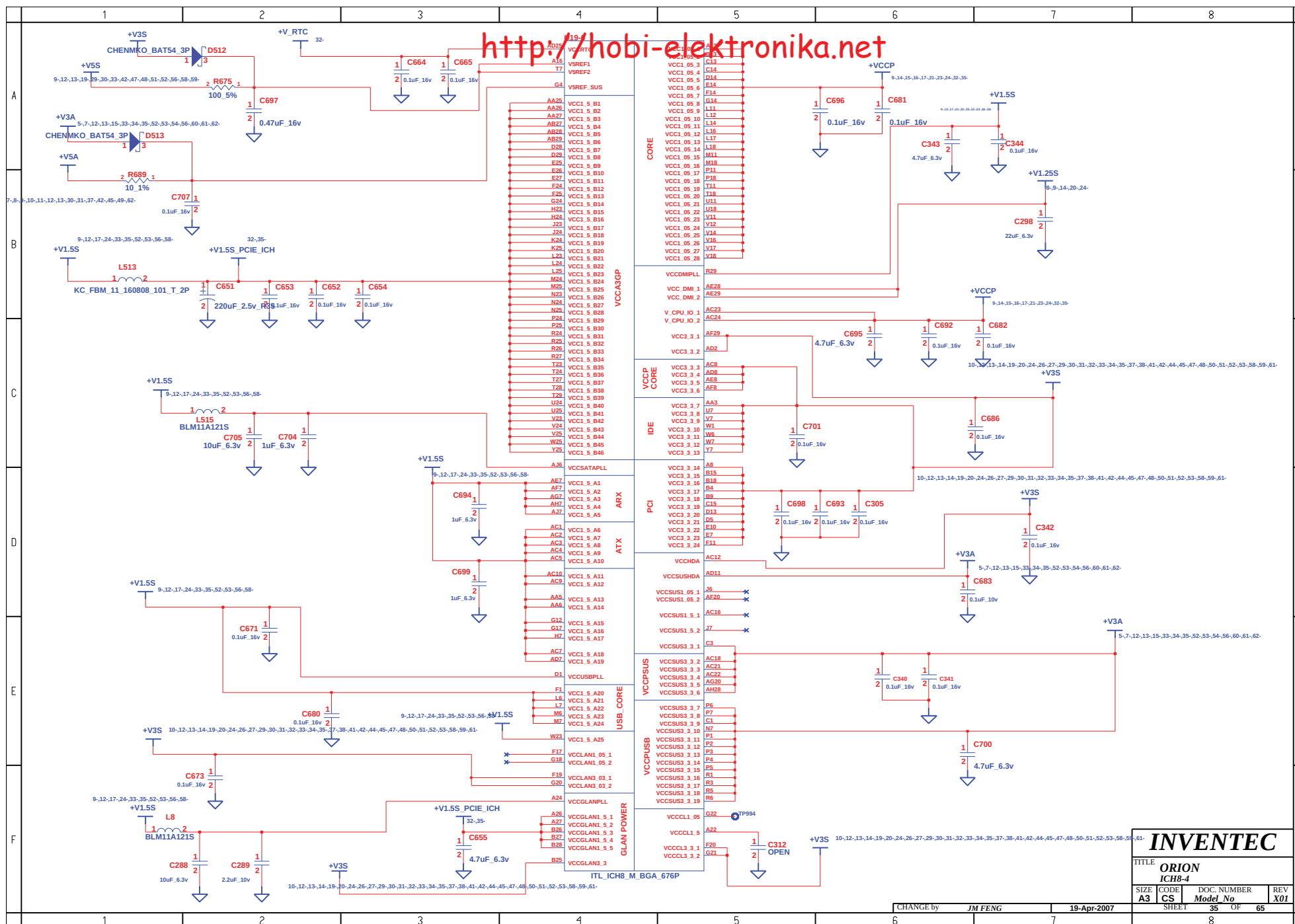
TITLE **ORION**
LCD CONN

CHANGE by	JM FENG	9-Feb-2007
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GNT0#	SPI_CS#1	Boot BIOS Location
0	1	SPI
1	0	PCI
1	1	LPC*

8



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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 N11
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
D4 VS5063 VS5161 U16
E21 VS5064 VS5162 U17
E24 VS5065 VS5163 U23
E4 VS5066 VS5164 U26
E9 VS5067 VS5165 U27
F15 VS5068 VS5166 U3
F23 VS5069 VS5167 U5
F28 VS5070 VS5168 V13
F29 VS5071 VS5169 V15
F7 VS5072 VS5170 V28
G1 VS5073 VS5171 V29
G2 VS5074 VS5172 W2
G10 VS5075 VS5173 W26
G13 VS5076 VS5174 W27
G19 VS5077 VS5175 Y28
G21 VS5078 VS5176 Y29
G25 VS5079 VS5177 Y4
G26 VS5080 VS5178 AB4
G27 VS5081 VS5179 AB23
H25 VS5082 VS5180 AB5
H28 VS5083 VS5181 AB6
H29 VS5084 VS5182 AD5
H3 VS5085 VS5183 U4
H6 VS5086 VS5184 W24
J1 VS5087 VSS.NCTF. 01 A1
J26 VS5088 VSS.NCTF. 02 A2
J29 VS5089 VSS.NCTF. 03 A28
J37 VS5090 VSS.NCTF. 04 A29
J4 VS5091 VSS.NCTF. 05 AH1
J5 VS5092 VSS.NCTF. 06 AH29
K21 VS5093 VSS.NCTF. 07 A31
K28 VS5094 VSS.NCTF. 08 A32
K29 VS5095 VSS.NCTF. 09 A328
K3 VS5096 VSS.NCTF. 010 A329
K6 VS5097 VSS.NCTF. 011 B1
VS5098 VSS.NCTF. 012 B29

ITL_ICH8_M_BGA_676P



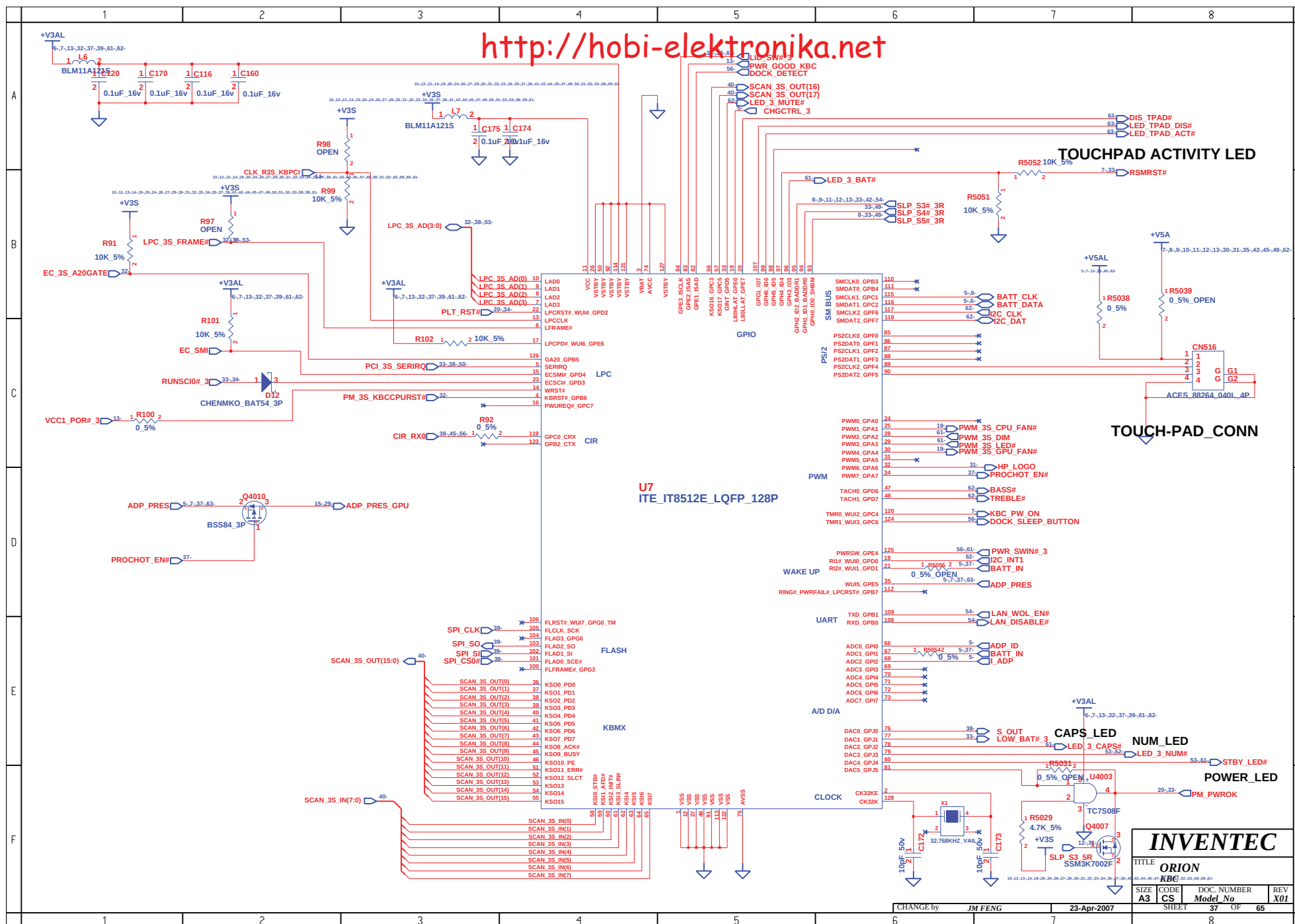
INVENTEC

TITLE
ORION
ICH8-5

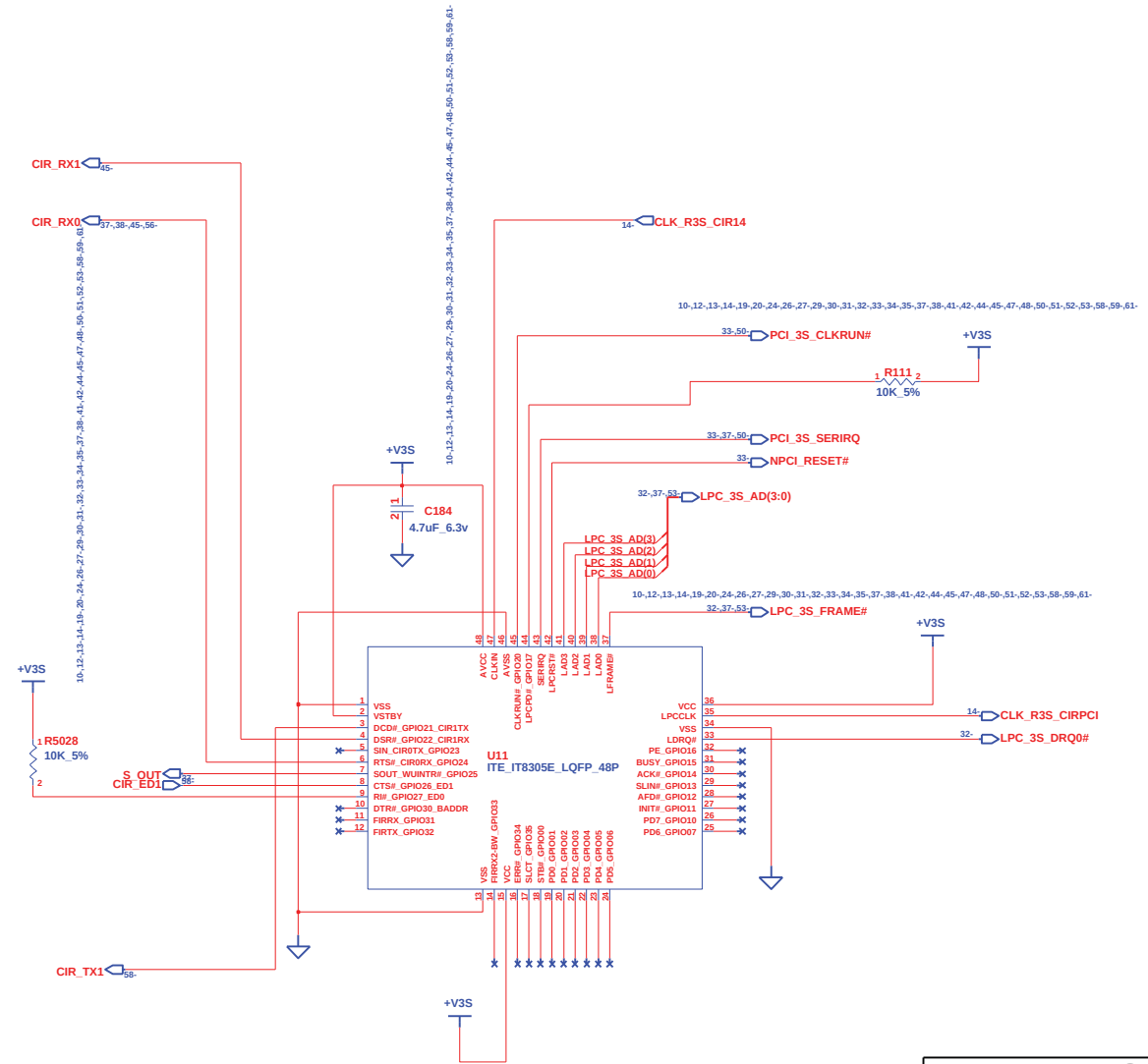
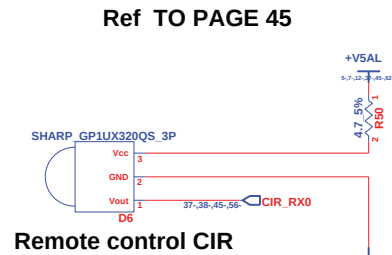
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		36 OF	65

CHANGE by JM FENG 13-Oct-2006

8



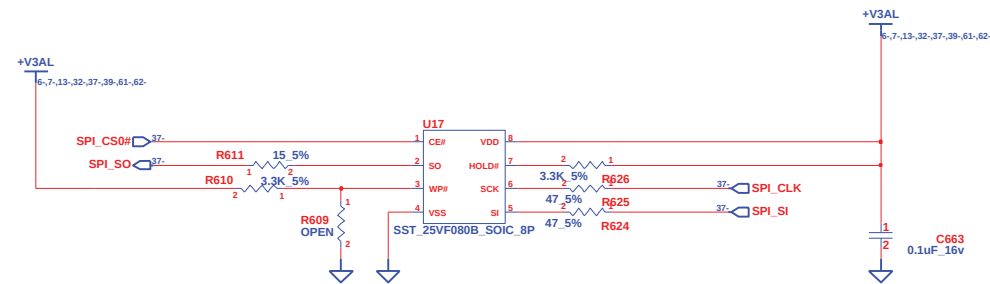
<http://hobi-elektronika.net>



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

CHANGE by ORION 26-Mar-2007

<http://hobi-elektronika.net>



SPI BIOS

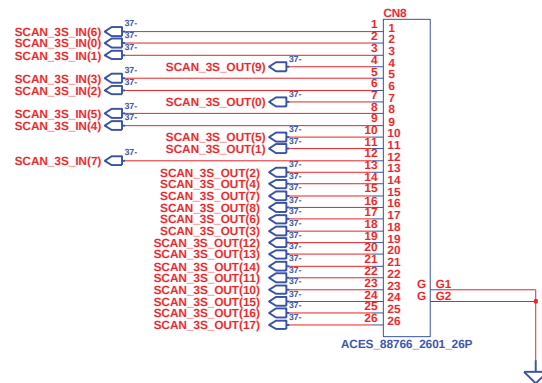
INVENTEC

TITLE			
ORION			
SPI BIOS			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
CHANGE by		SHEET	
JM FENG		39 OF 65	

23-Mar-2007

8

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INVENTEC			
TITLE ORION			
INT.KB/POINT DEVICES			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
CHANGE by		11-Dec-2006	
SHEET		40	OF 65
		8	

http://hobi-elektronika.net

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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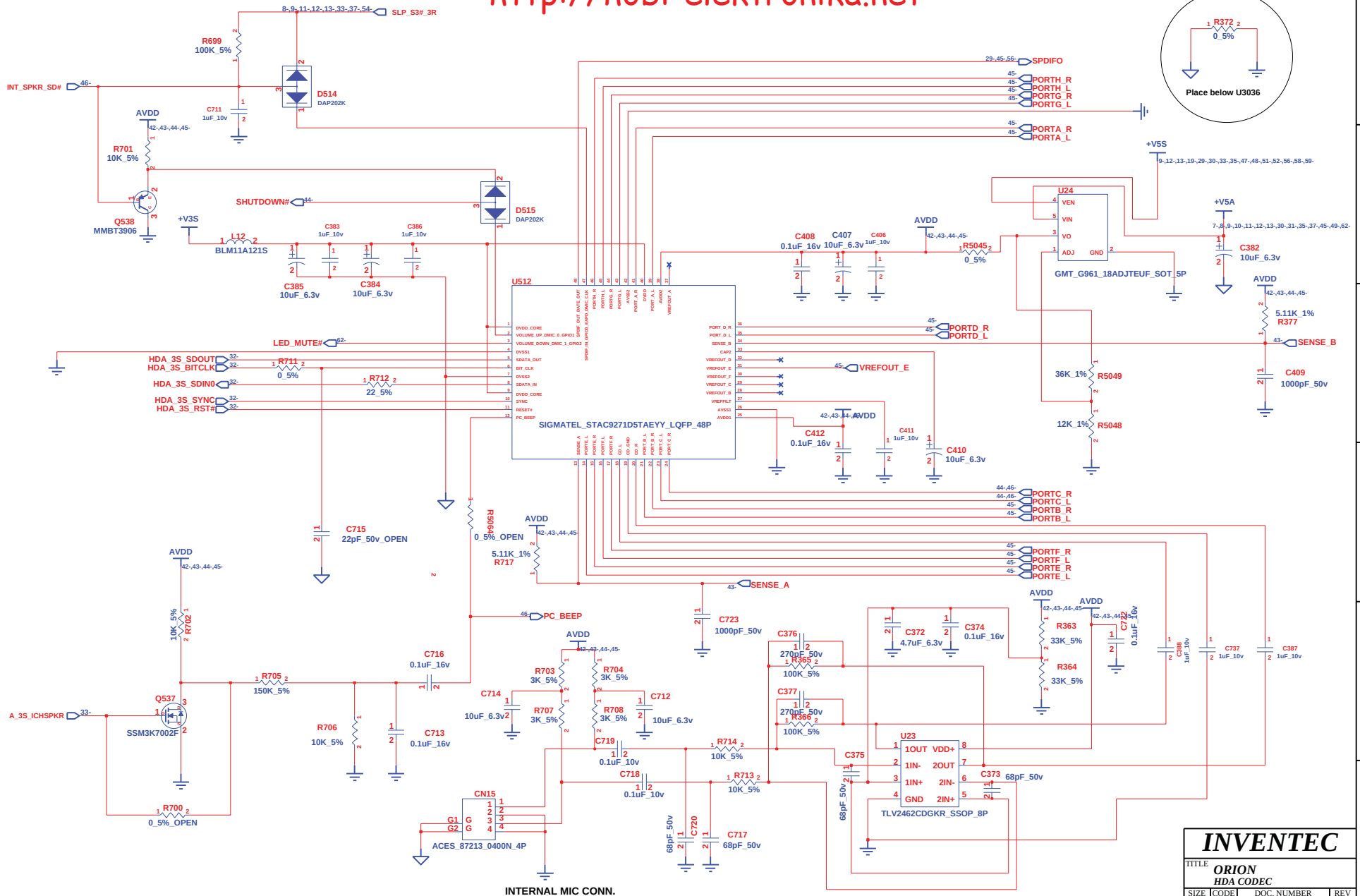
SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV X01
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CHANGE by	JM FENG	7-Jan-2007
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CS	Model No	
SHEET	41	OF 65

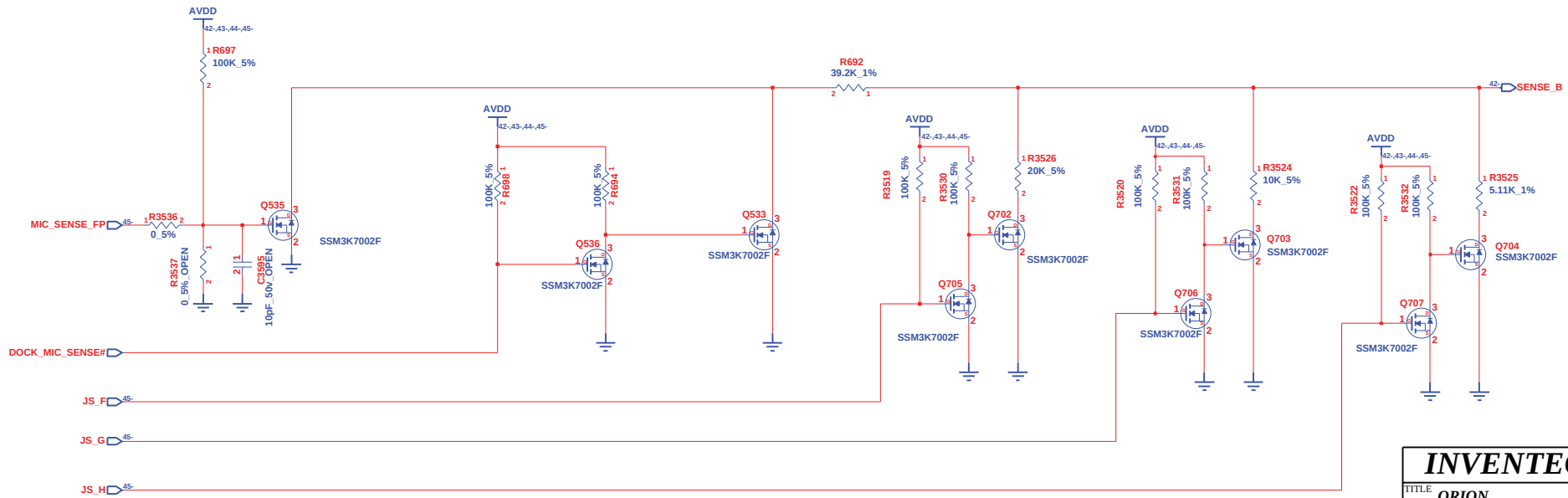
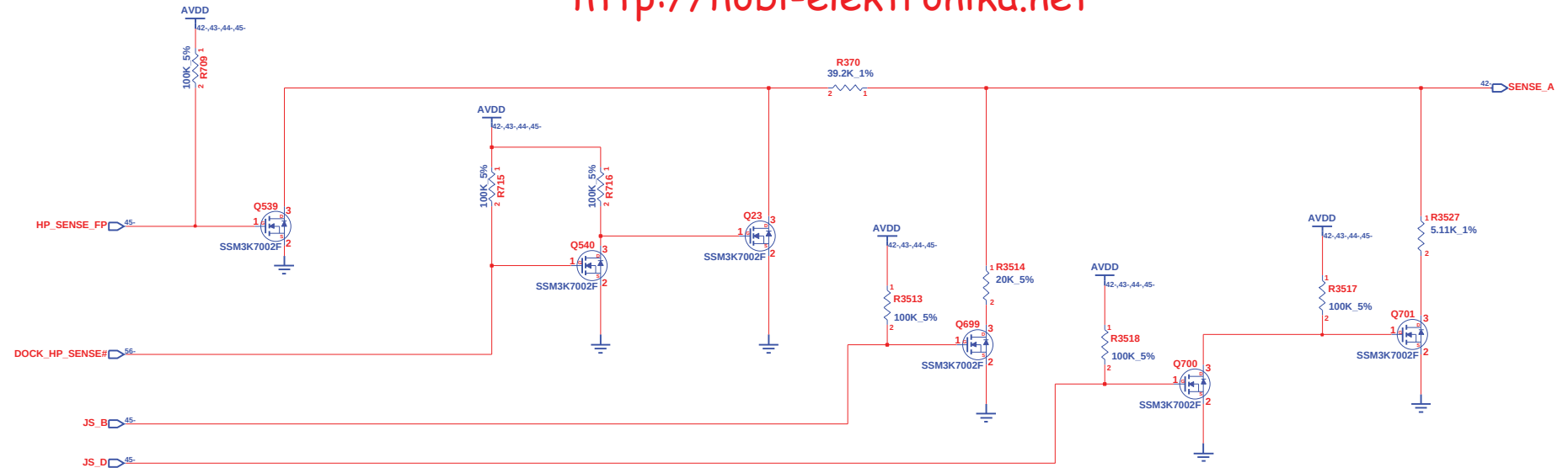
8

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

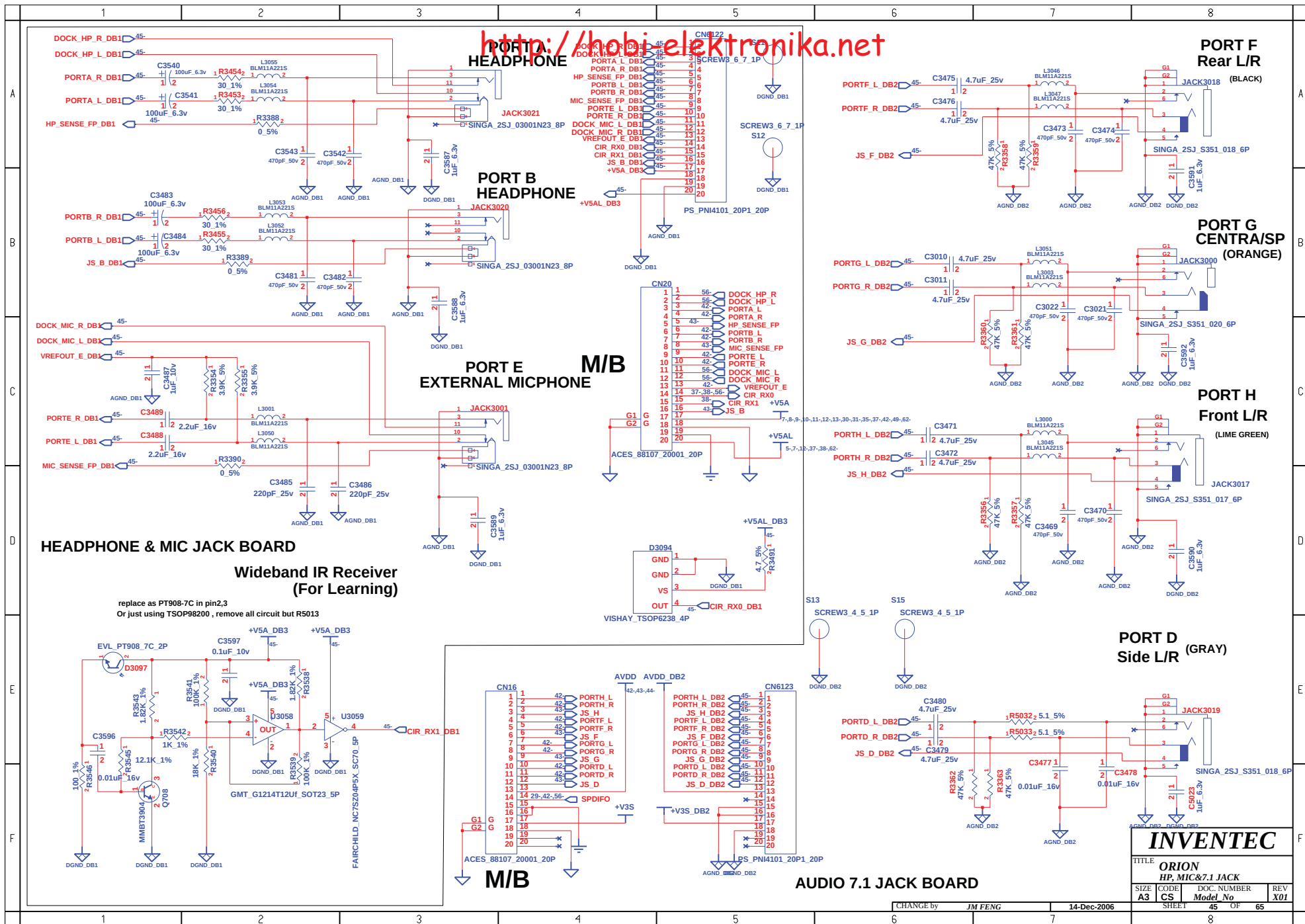
INVENTEC

TITLE
**ORION
SUBWOOFER**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by JM FENG 26-Mar-2007

SHEET 44 OF 65



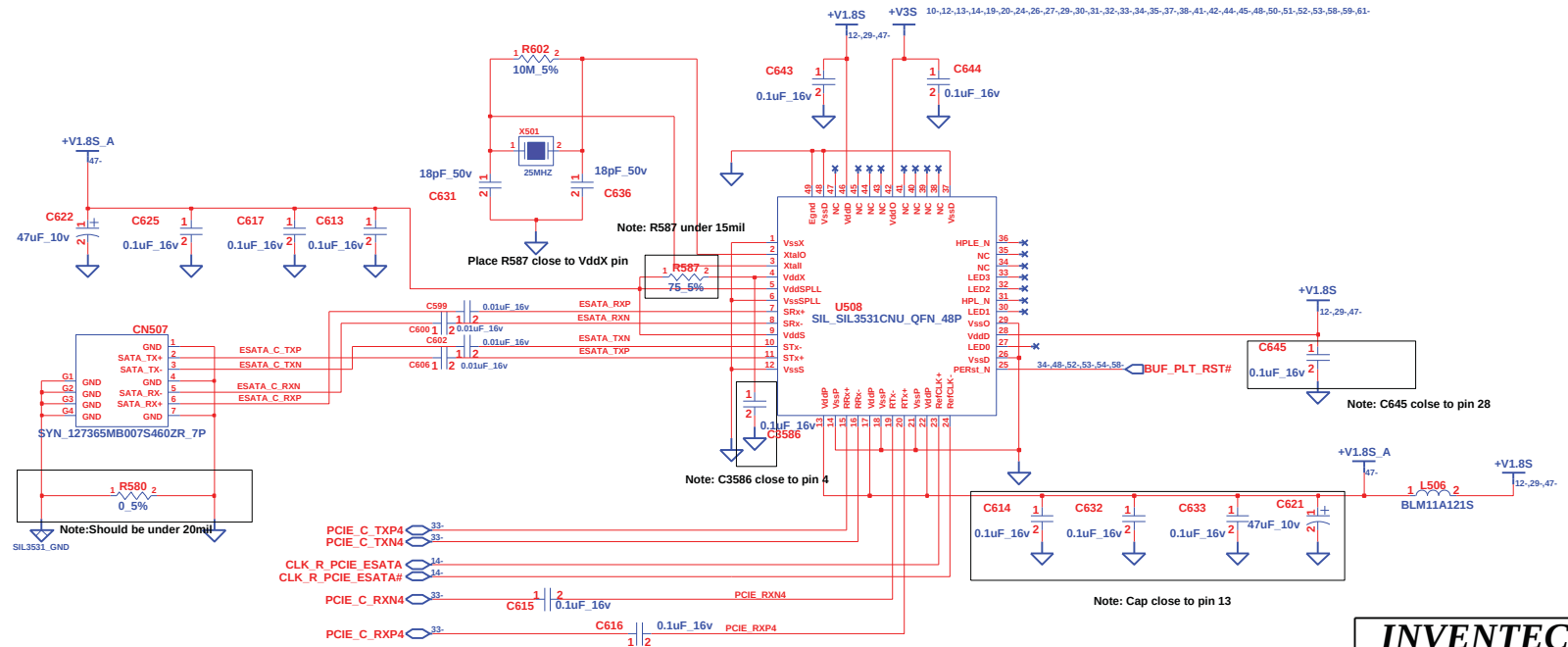
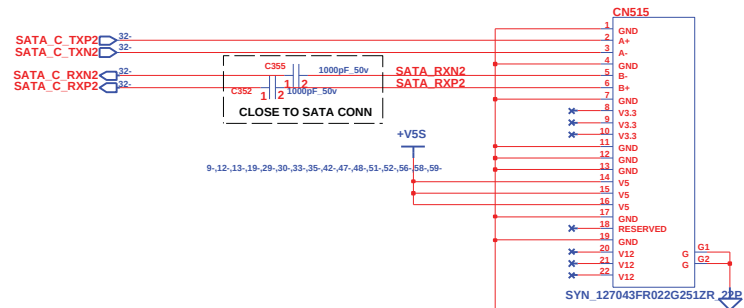
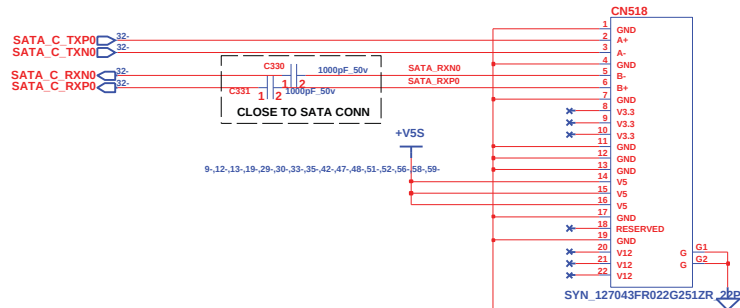
http://hobi-elektronika.net

TITLE			
<i>SPEAK CONN.</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS		
SHEET		46	OF 65

CHANGE by	ORION	21-May-2007
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46 OF 65

<http://hobi-elektronika.net>

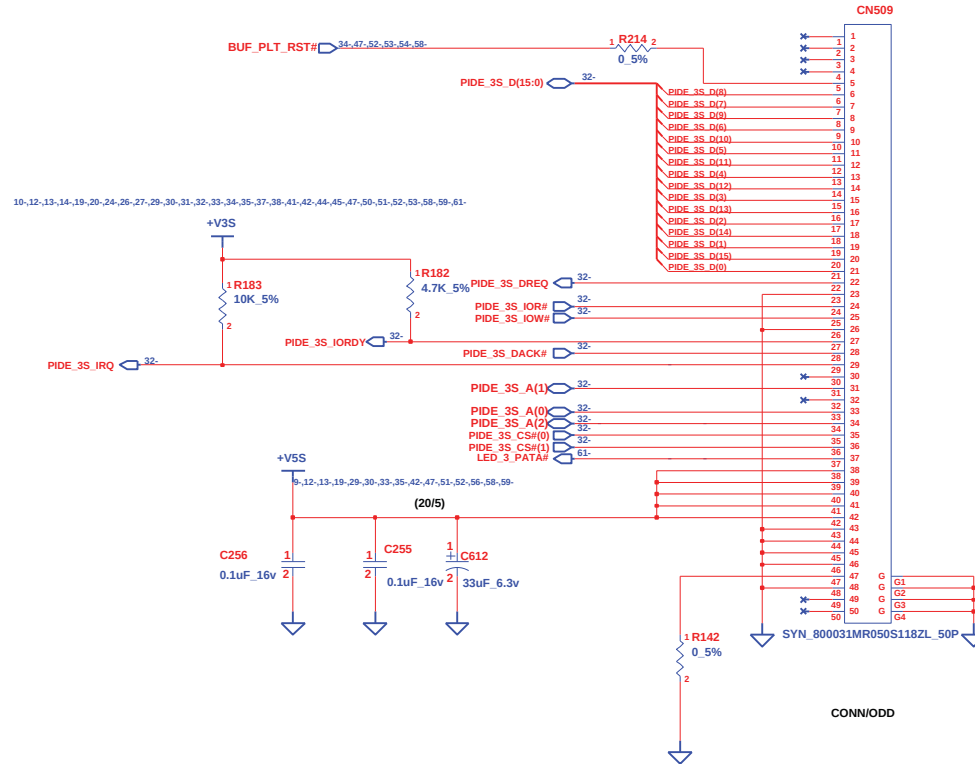


INVENTEC

TITLE			
ORION			
ESATA / SATA CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		47	OF 65

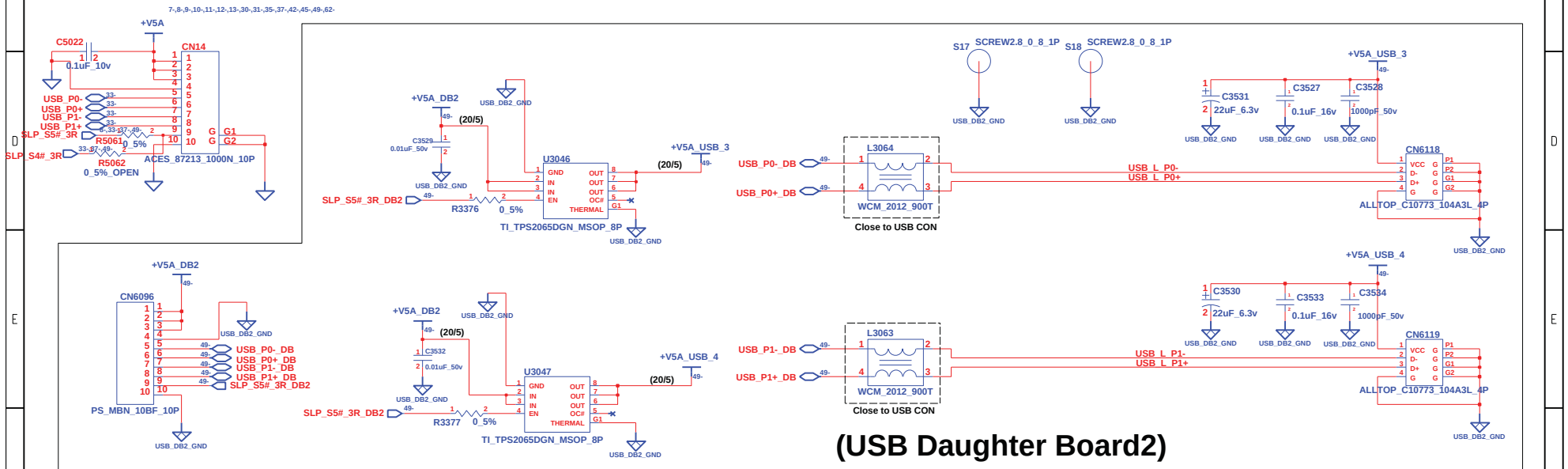
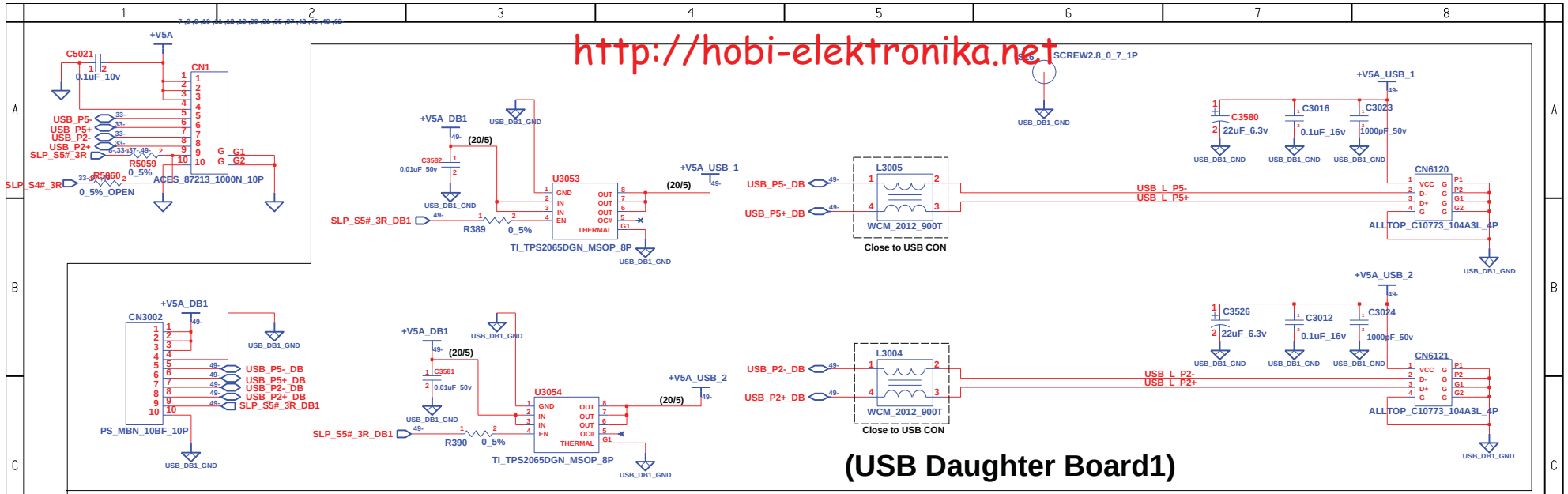
CHANGE by JM FENG 4-Jan-2007

<http://hobi-elektronika.net>



INVENTEC			
TITLE ORION ODD CONN			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV X01
CHANGE by JM FENG		18-Oct-2006	
SHEET 48		OF 65	8

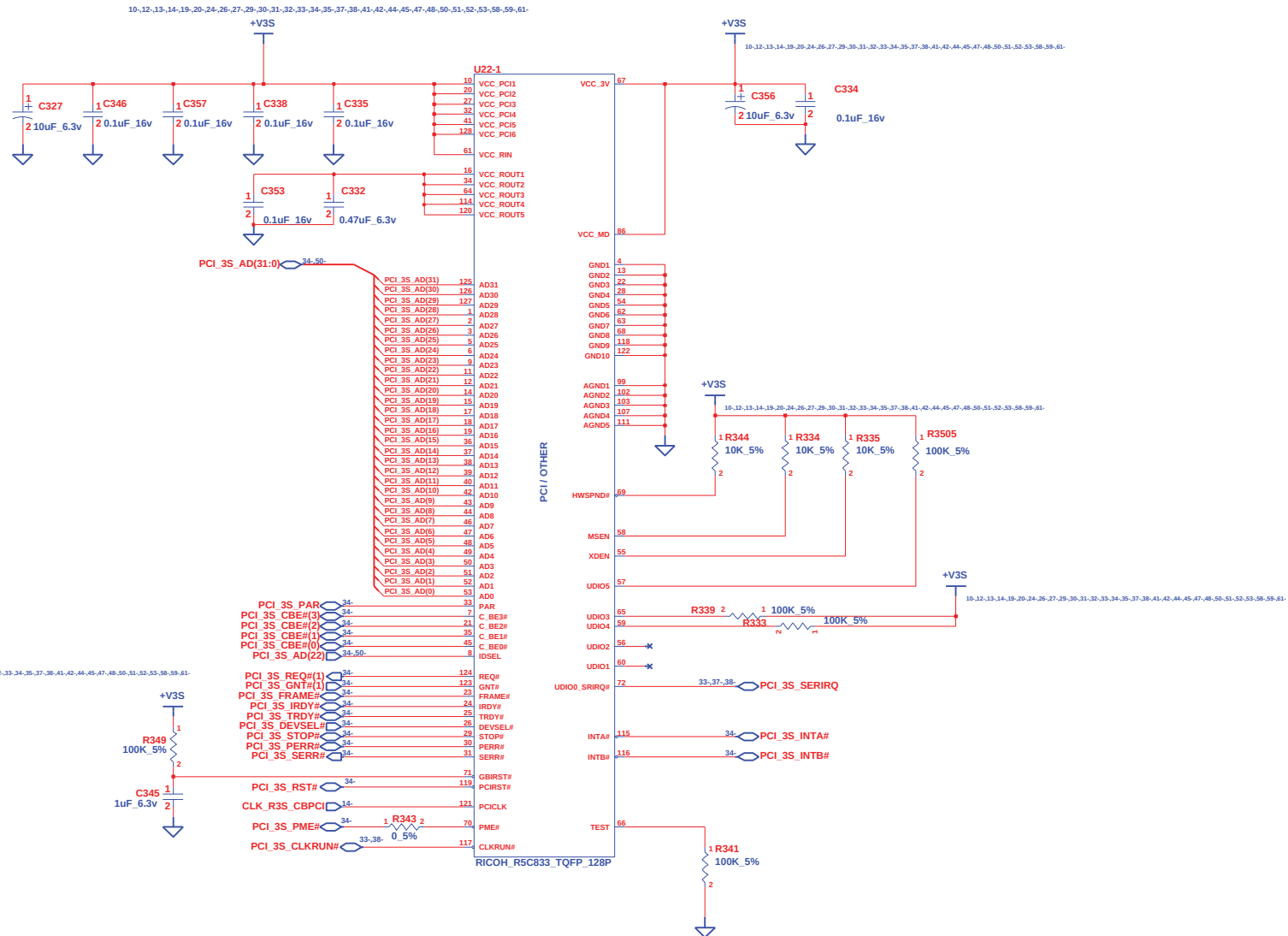
<http://hobi-elektronika.net>



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

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-

U22-2

ACC_PHY1
ACC_PHY2
ACC_PHY3
ACC_PHY4

TPBIA50
TPB0-
TPB0+
TPA0-
TPA0+

MDIO17
MDIO16
MDIO15
MDIO14
MDIO13
MDIO12
MDIO11
MDIO10
MDIO09
MDIO08
MDIO19
MDIO18
MDIO02
MDIO03
MDIO00
MDIO01

MDIO09
MEDIA_PWREN
LED_MEDIA_ACT#

RSV

RICOH_R5C833_TQFP_128P

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-

U3057

TI_TPS2065DGN_MSOP_8P

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-

Should be placed close to R5C833

Should be placed close to R5C833

CHENKO_LL4148_2P

MEDIA_3S

MDIO00
MDIO01

MDIO03
MDIO09
MDIO02
MDIO19
MDIO18
MDIO08
MDIO05
MDIO10
MDIO12
MDIO09
MDIO13
MDIO13
MDIO08

MDIO12
MDIO10
MDIO11
MDIO09
MDIO08
MDIO11
MDIO12
MDIO13
MDIO14
MDIO15
MDIO10
MDIO16
MDIO17

MDIO03
MDIO00

LED_MEDIA_ACT#

EV1_19_21_B7C_ZQ1R2_3T_2P

INVENTEC

TITLE ORION

5 IN 1/1394 CONN

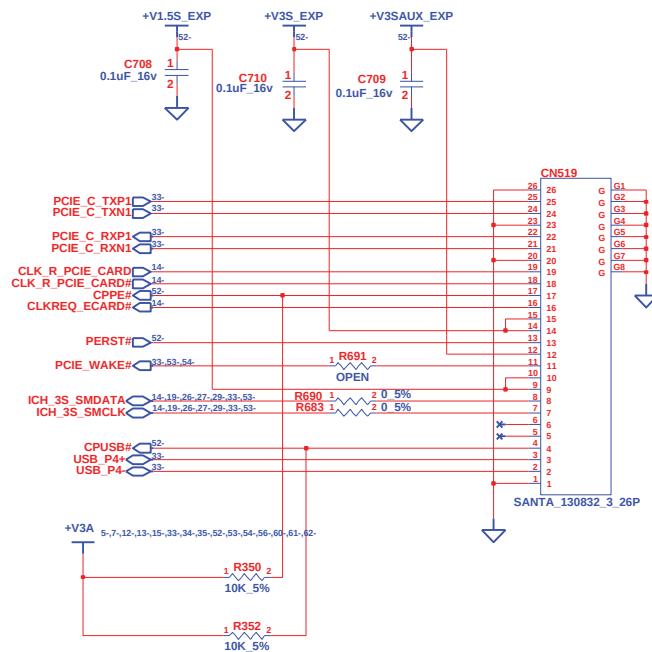
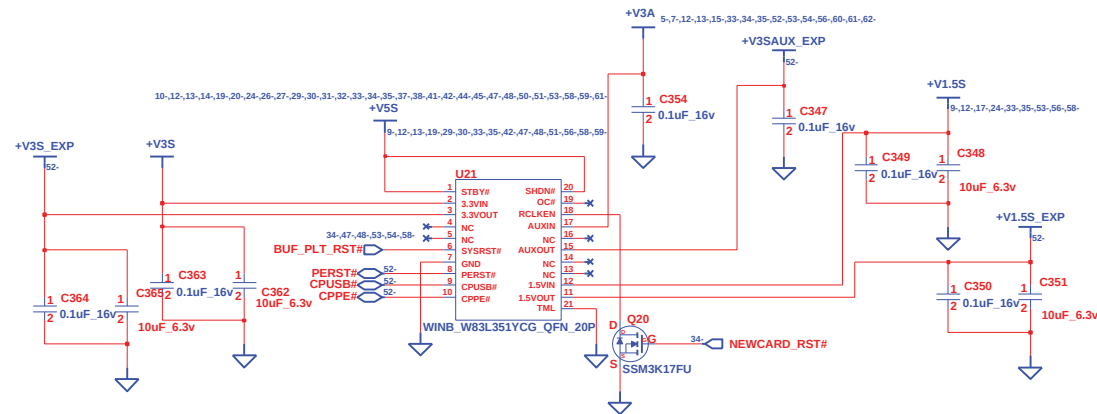
SIZE A3 CODE CS DOC. NUMBER Model No

REV X01

CHANGE by JM FENG 16-Feb-2007

SHEET 51 OF 65

<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

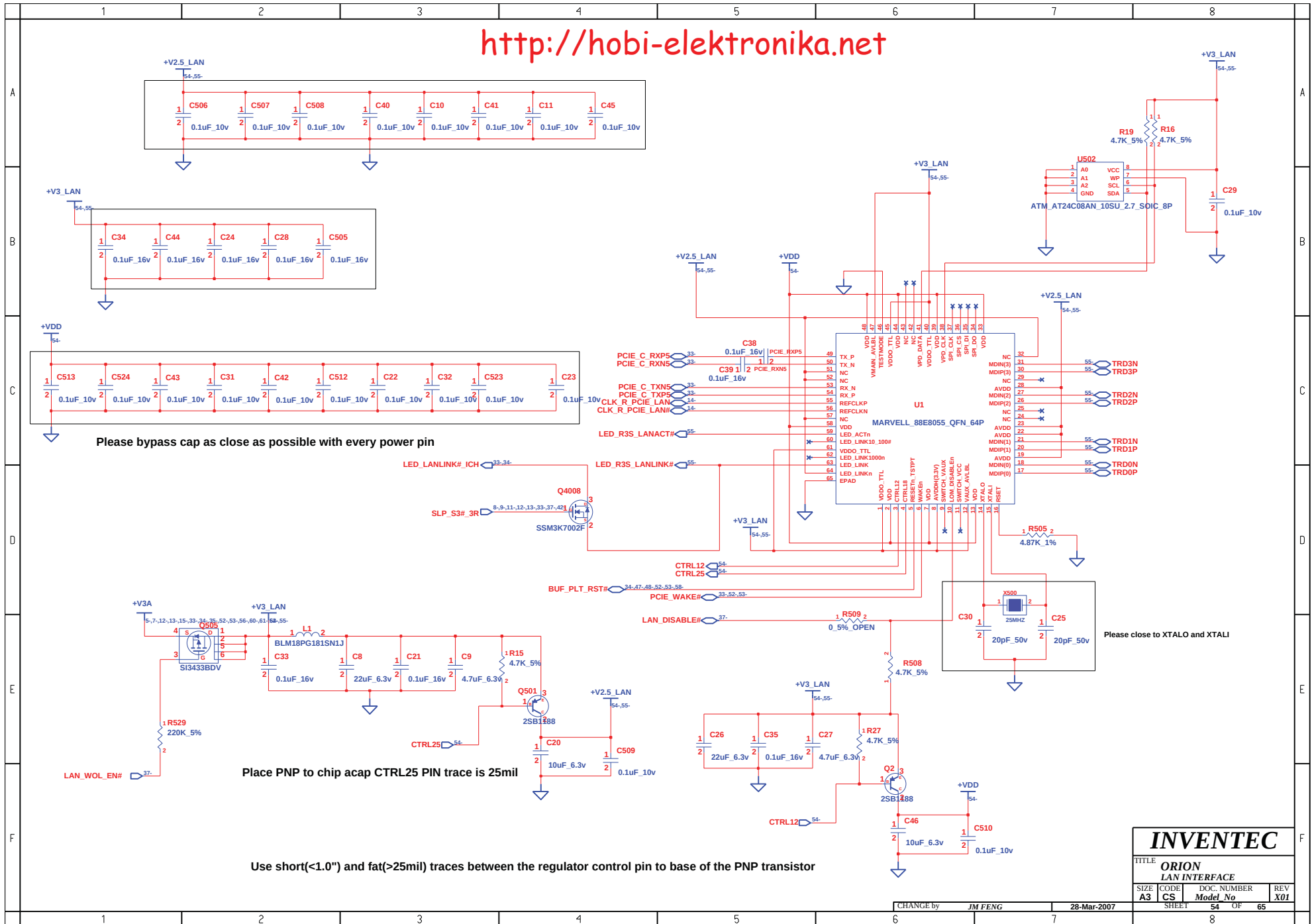


10-12-13-14-19-20-24-26-27-29-30-31-32-33-34-35-37-38-41-42-44-45-47-48-50-51-52-53-58-59-61

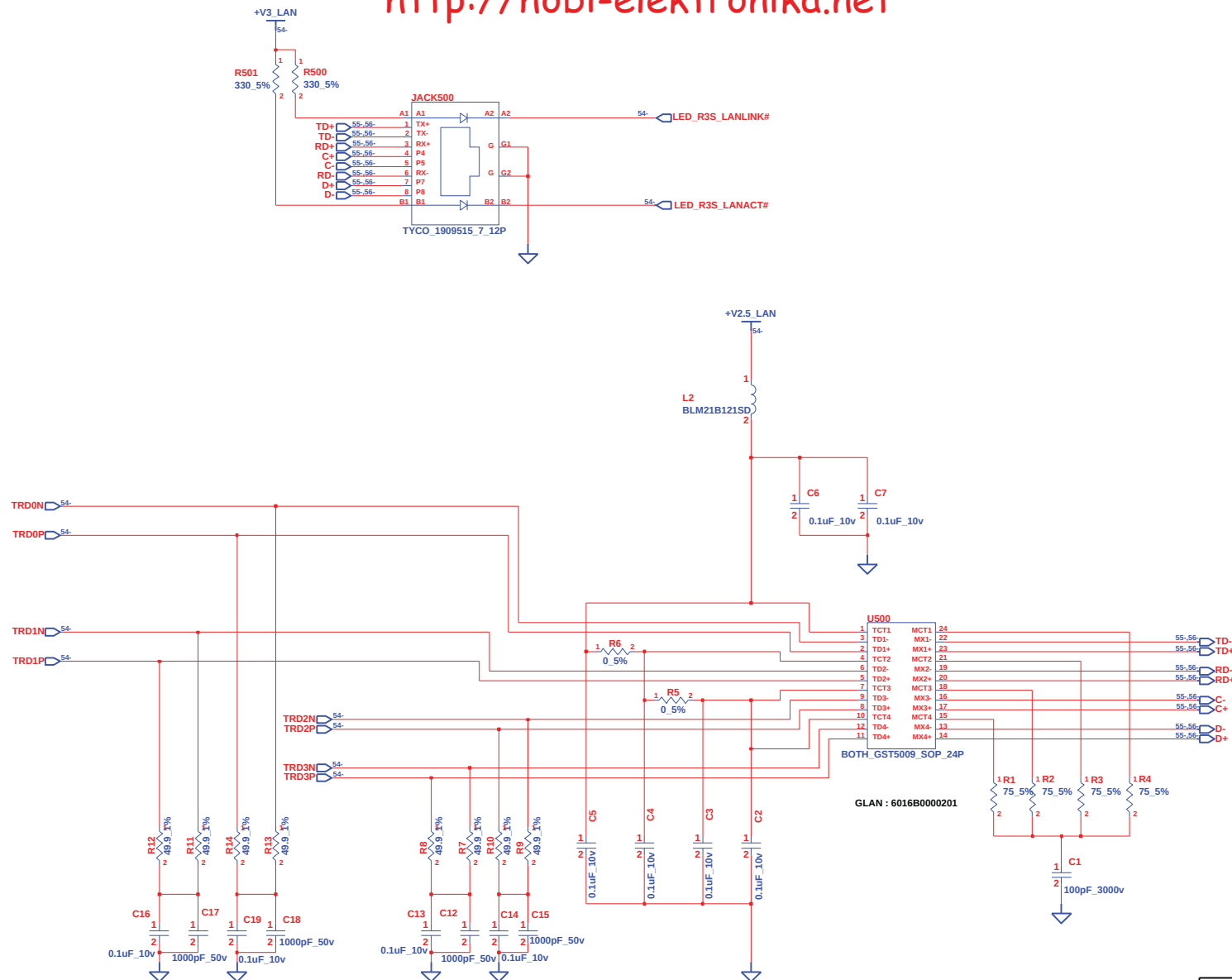


CHANGE by	JM FENG	22-Mar-2007
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<http://hobi-elektronika.net>



<http://hobi-elektronika.net>



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

INVENTEC

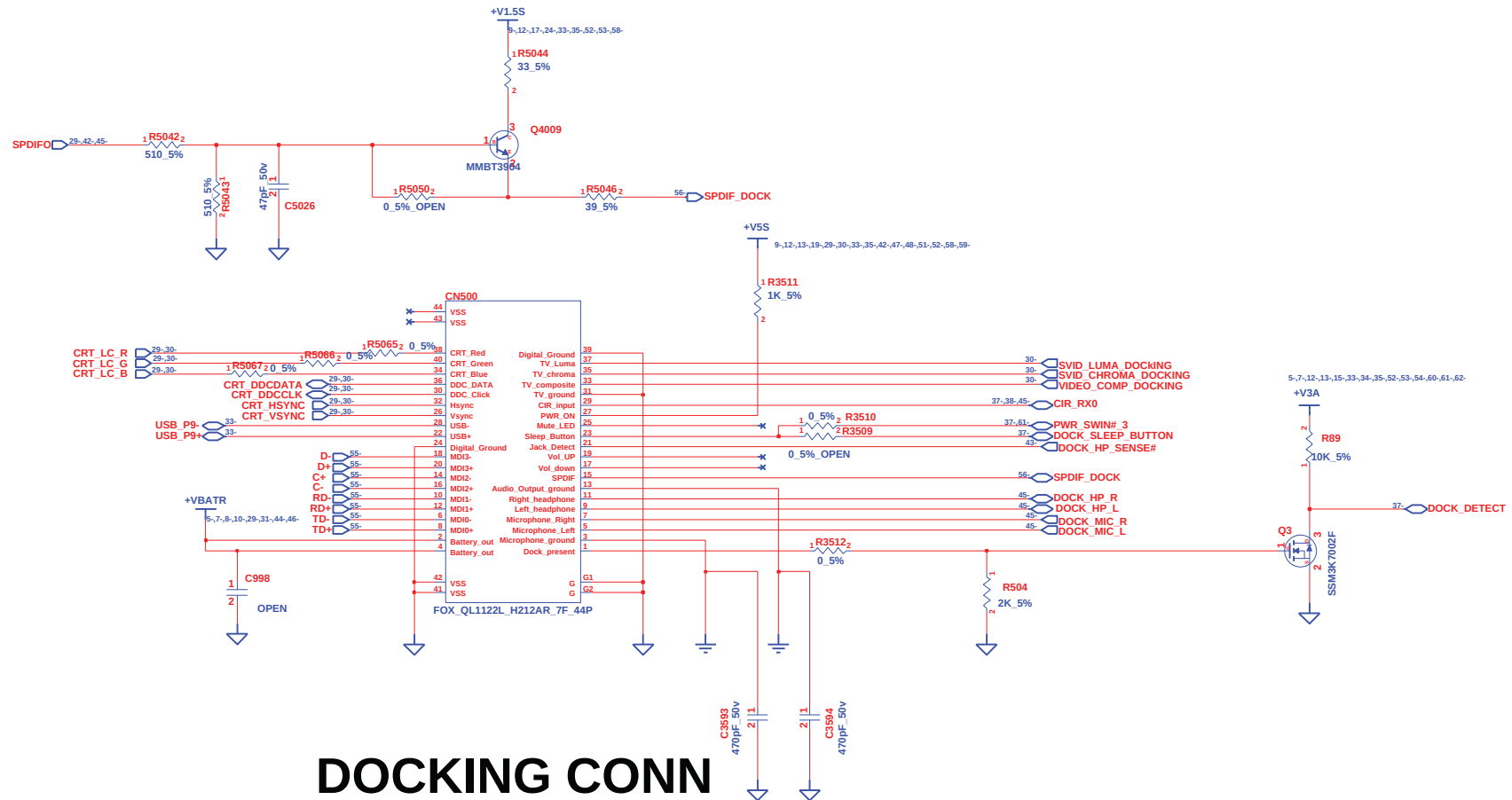
TITLE
ORION
Transformer&RJ45

SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV X01
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CHANGE by **JM FENG** 14-Dec-2006

SHEET 55 OF 65

<http://hobi-elektronika.net>



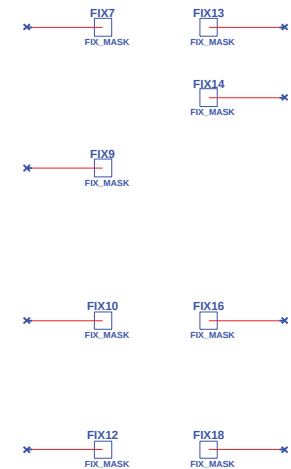
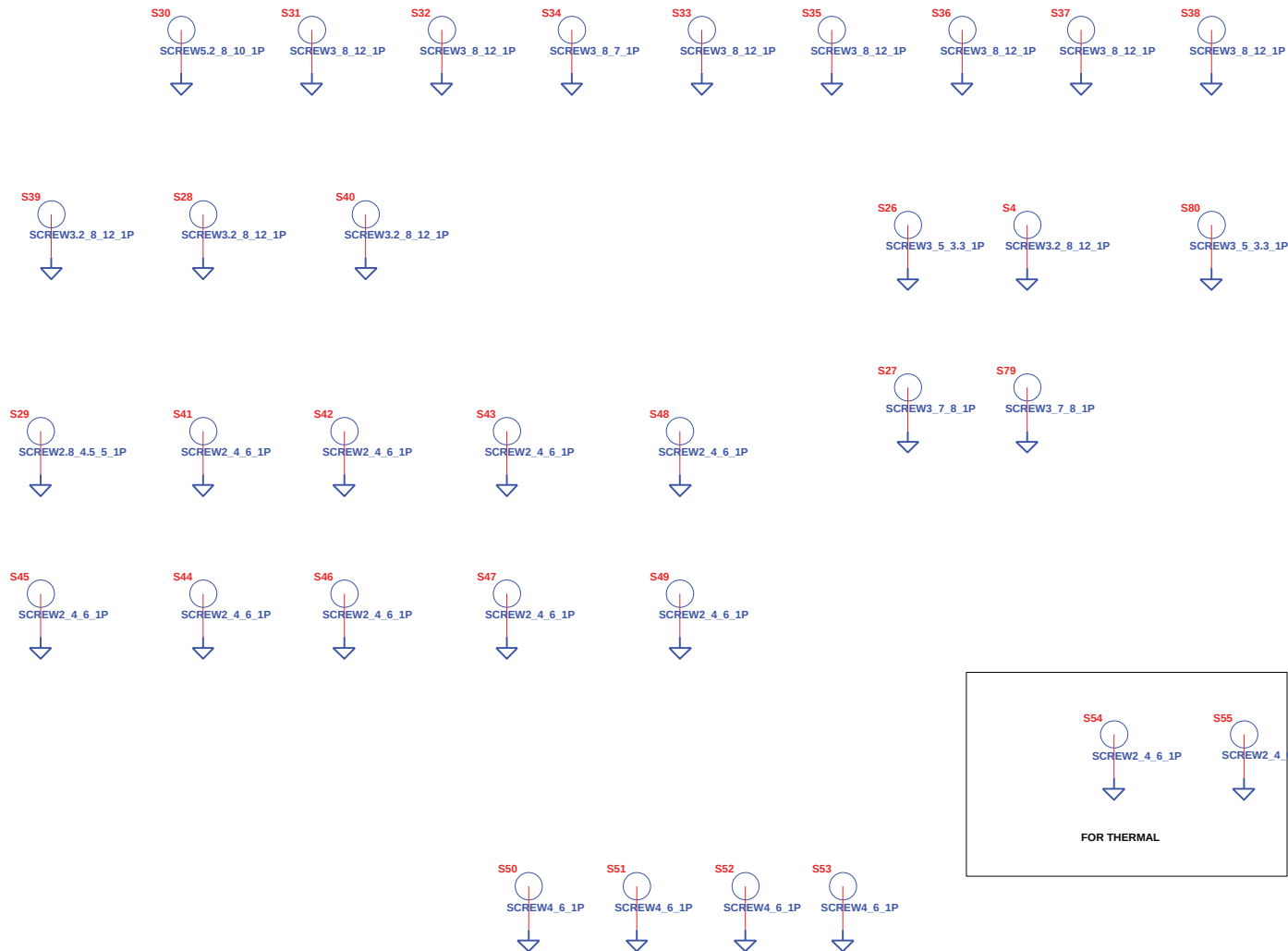
INVENTEC

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

CHANGE by **JM FENG** 28-May-2007

SHEET 56 OF 65

<http://hobi-elektronika.net>



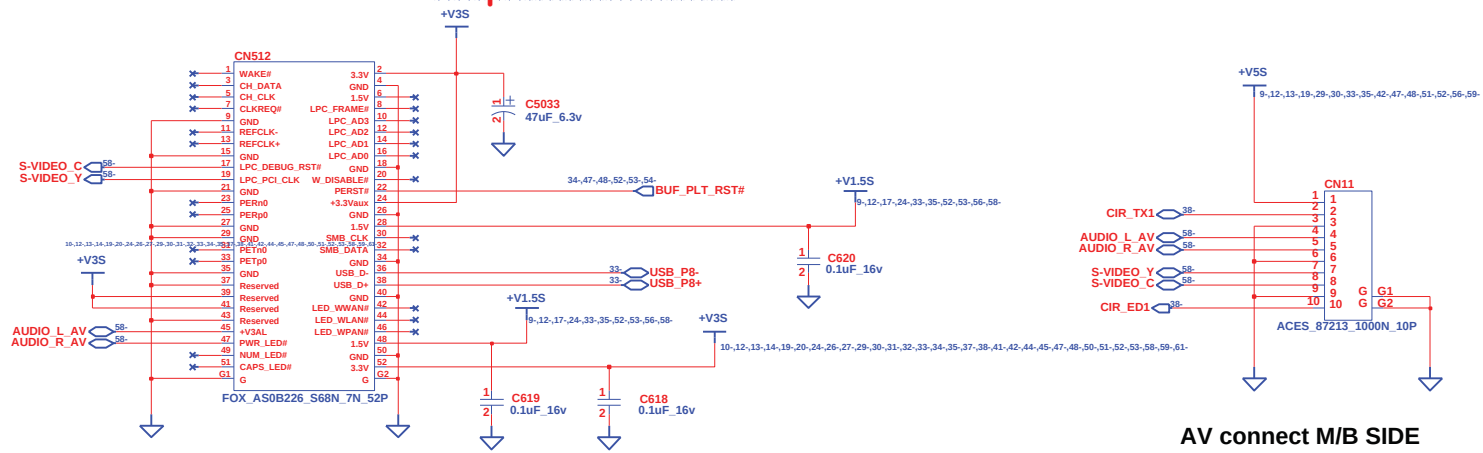
INVENTEC

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

CHANGE by JM FENG 26-Mar-2007

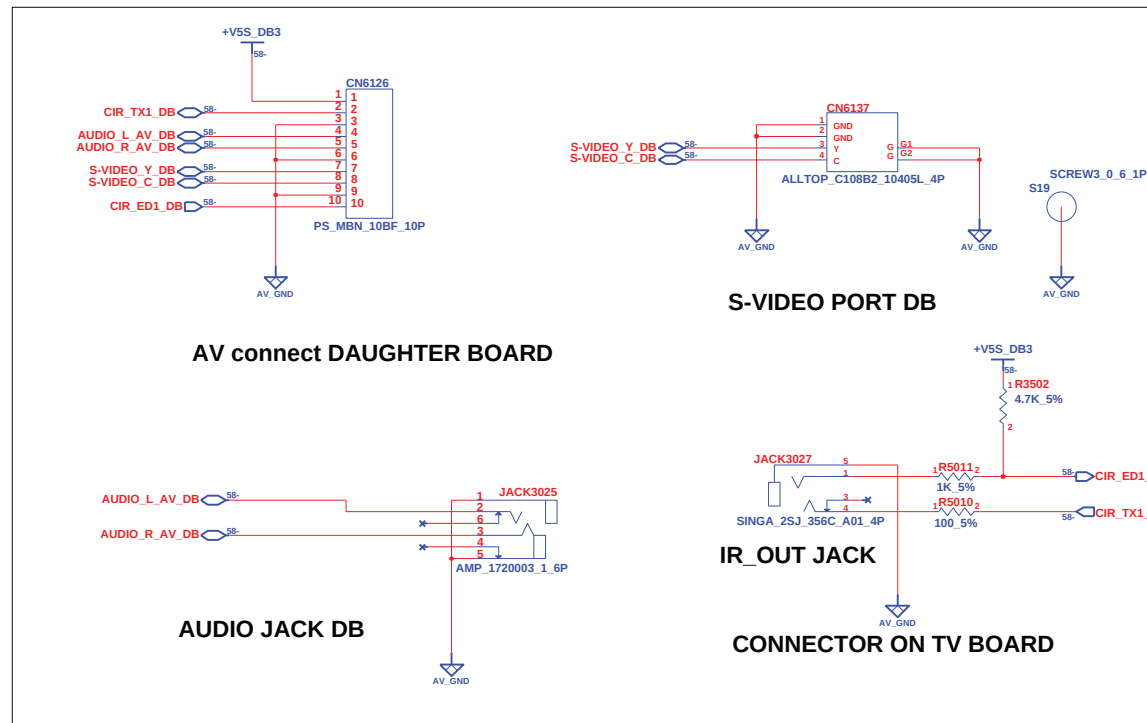
SHEET 57 OF 65

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TV TUNER CONN.

AV connect M/B SIDE



AV connect DAUGHTER BOARD

S-VIDEO PORT DB

AUDIO JACK DB

IR_OUT JACK

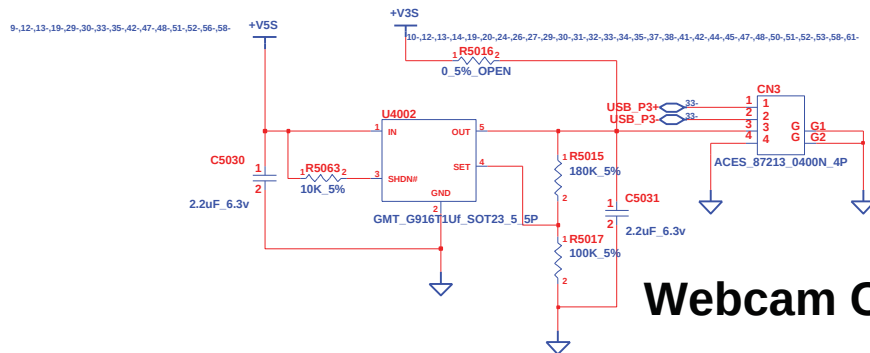
CONNECTOR ON TV BOARD

INVENTEC

TITLE			
ORION TV Tuner Conn.			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
SHEET		OF	65
		58	8

CHANGE by JM FENG 6-Feb-2007

<http://hobi-elektronika.net>

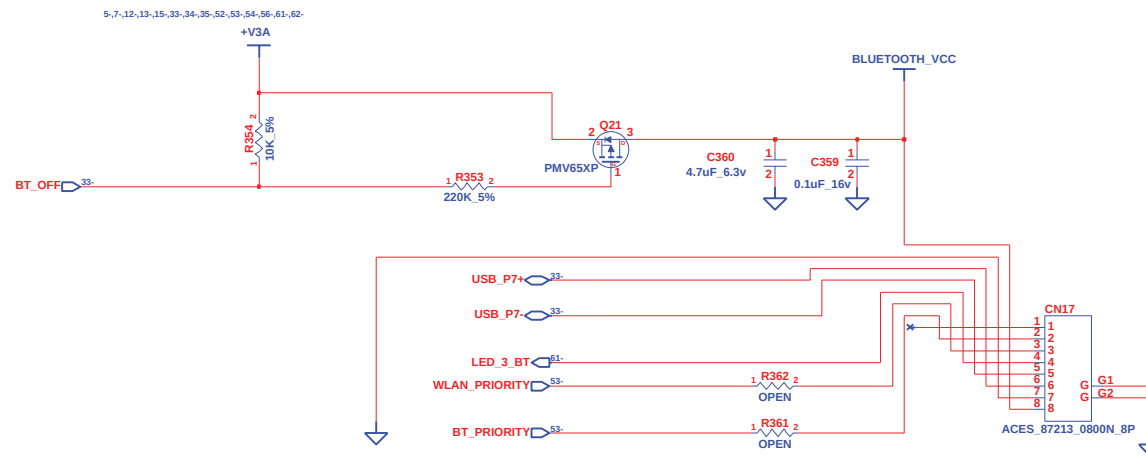


Webcam CONN

INVENTEC

TITLE			
ORION			
WEBCAM CONN.			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
CHANGE by		28-May-2007	
SHEET		59	OF 65
		8	

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INVENTEC

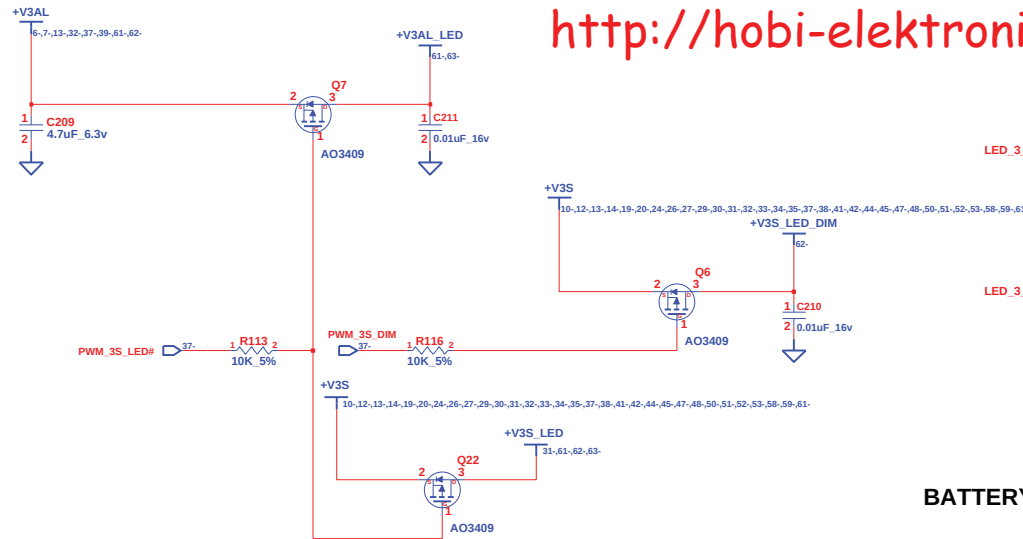
TITLE			
ORION			
BLUETOOTH CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01

CHANGE by JM FENG 24-Dec-2006

SHEET 60 OF 65

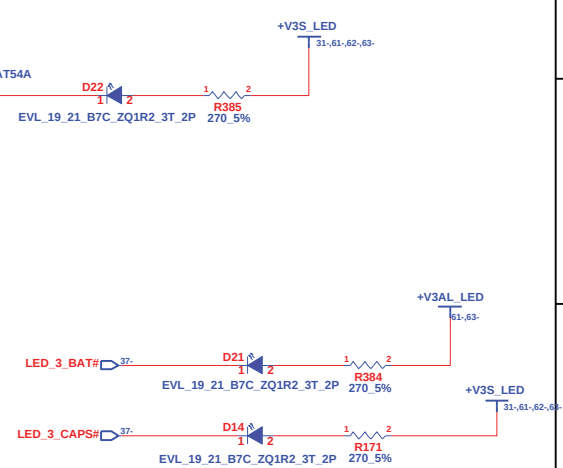
<http://hobi-elektronika.net>

HDD & ODD LED



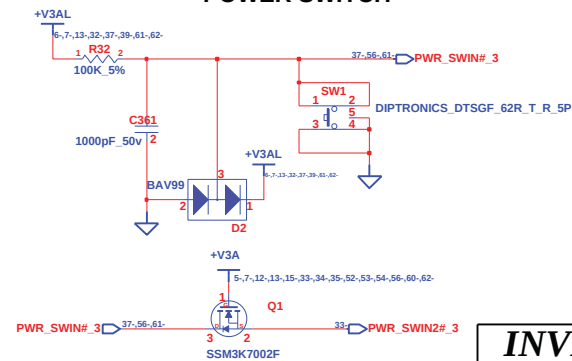
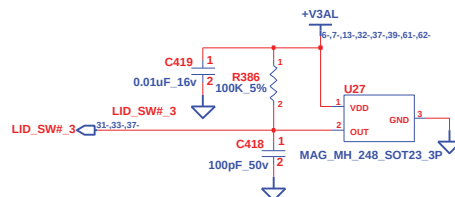
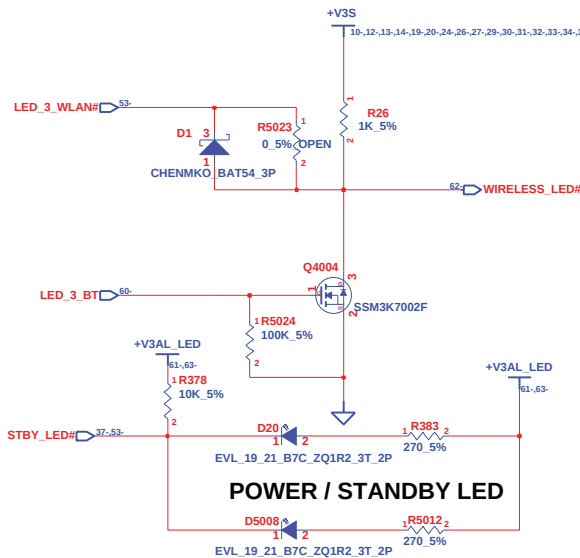
BATTERY-CHARGE LED

CAP LOCK LED



LID SWITCH

POWER SWITCH



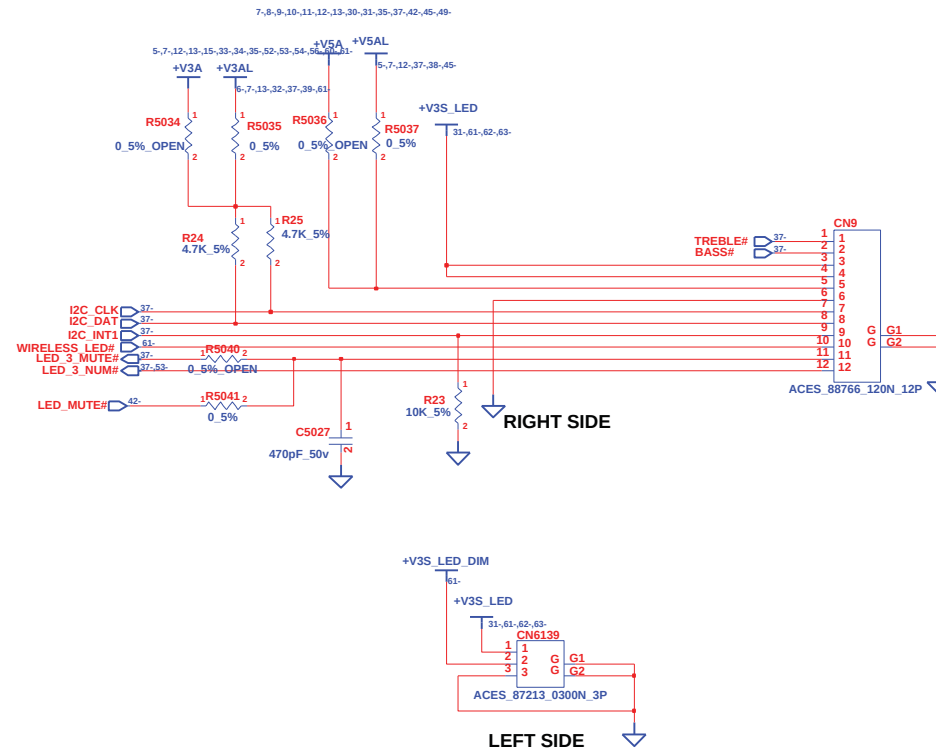
INVENTEC

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

CHANGE by JM FENG 23-Mar-2007

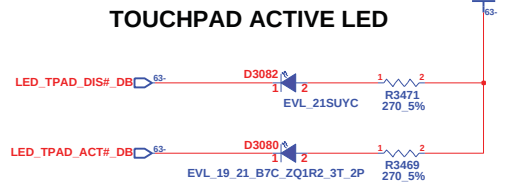
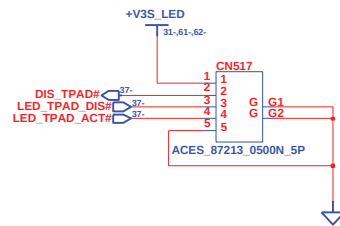
SHEET 61 OF 65

<http://hobi-elektronika.net>

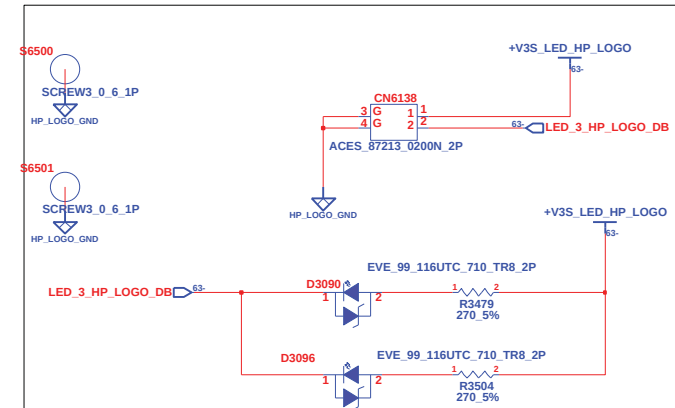
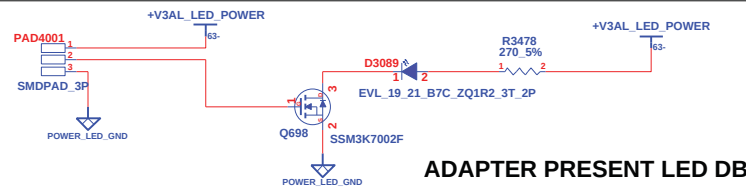
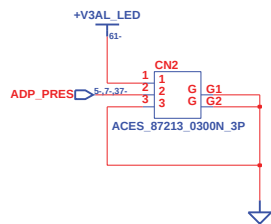
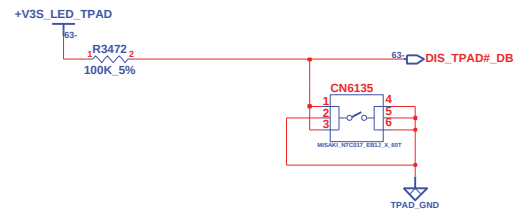


INVENTEC			
TITLE			
ORION POWER SWITCH CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	X01
CHANGE by		28-May-2007	
SHEET		62	OF 65
		8	

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TOUCHPAD-DISABLE BUTTOM_DB



HP LOGO LED DB

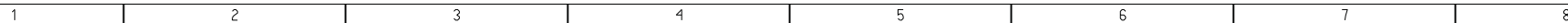
INVENTEC

TITLE
ORION
PWR & SWITCH & LEDS

SIZE CODE DOC. NUMBER REV
A3 CS 63 OF 65

CHANGE by ORION 13-Dec-2006

SHEET

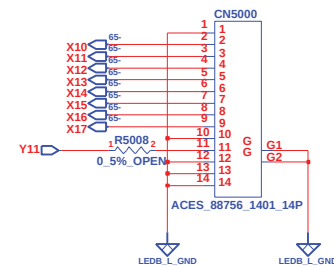
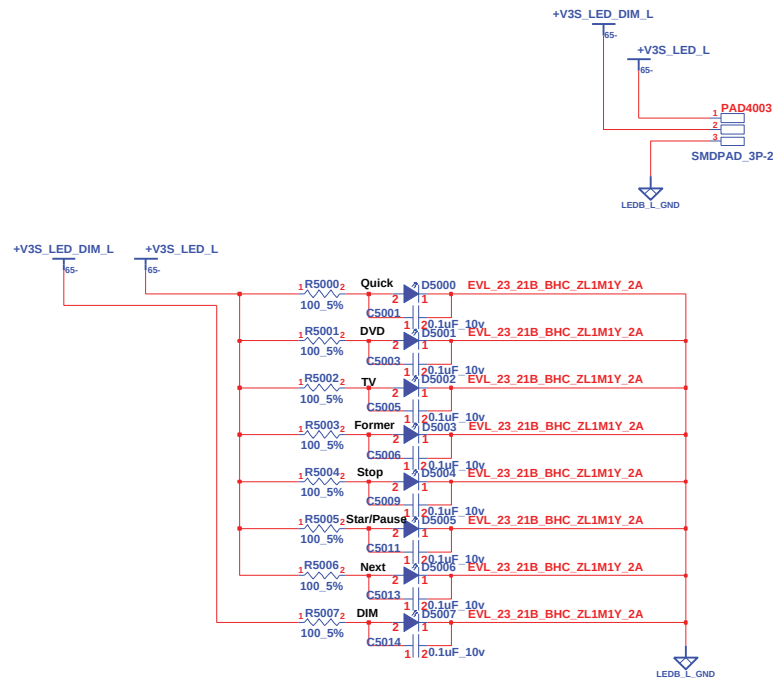


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INVENTEC

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

CHANGE by JM FENG 12-Feb-2007

SHEET 65 OF 65