NOZOMI-3 UMA SVT LOGIC SCHEMATICS

NZM3I-6
VER 6.06
Nov/25/2010

BASE LOGIC :NZM3 UMA SIT
VER 5.11
OCT/15/2010

www.chinafix.com

FLEX Computing

Project Name : H430UI1	Title : TITLE PAGE	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 01 of 99	

EC HISTORY

NOZOMI-3 PRE-DV :BASE LOGIC NZM1 EXT 512MB SIT VER.7.03 12/01/2009

VER.0.01 12/10/2009 APPLIED PDV_EC001
VER.0.02 12/14/2009 APPLIED PDV_EC002-012
VER.0.03 12/15/2009 APPLIED PDV_EC013-025
VER.0.04 12/16/2009 APPLIED PDV_EC026-033
VER.0.05 12/17/2009 APPLIED PDV_EC034-038
VER.0.06 12/18/2009 APPLIED PDV_EC039-041,043-45,047-054
VER.0.07 12/21/2009 APPLIED PDV_EC042,046,055-066
VER.0.08 12/22/2009 APPLIED PDV_EC067-080
VER.0.09 12/24/2009 APPLIED PDV_EC081-085
VER.0.10 12/25/2009 APPLIED PDV_EC086-089
VER.0.11 12/28/2009 APPLIED PDV_EC090-095
VER.0.12 01/06/2010 APPLIED PDV_EC096-112
VER.0.13 01/07/2010 APPLIED PDV_EC113-120
VER.0.14 01/08/2010 APPLIED PDV_EC121
VER.0.15 01/12/2010 APPLIED PDV_EC122
VER.0.16 01/13/2010 APPLIED PDV_EC123-125
VER.0.17 01/14/2010 APPLIED PDV_EC126-128,130
VER.0.18 01/15/2010 APPLIED PDV_EC131-133
VER.0.19 01/18/2010 APPLIED PDV_EC134-137

VER.0.20 01/19/2010 APPLIED PDV_EC138
VER.0.21 01/20/2010 APPLIED PDV_EC139,140
VER.0.22 01/21/2010 APPLIED PDV_EC141-146
VER.0.23 01/22/2010 APPLIED PDV_EC147,148
VER.0.24 01/25/2010 APPLIED PDV_EC149-160
VER.0.25 01/26/2010 APPLIED PDV_EC162-168
VER.0.26 01/27/2010 APPLIED PDV_EC169-176
VER.0.27 01/28/2010 APPLIED PDV_EC177-179
VER.0.28 01/29/2010 APPLIED PDV_EC180
VER.0.29 02/01/2010 APPLIED PDV_EC181-189
VER.0.30 02/02/2010 APPLIED PDV_EC190-193
VER.0.31 02/03/2010 APPLIED PDV_EC194-197
VER.0.32 02/04/2010 APPLIED PDV_EC198-202

NOZOMI-3 SDV :BASE LOGIC NZM3 PRE-DV VER.0.32 02/04/2010

VER.1.00 02/05/2010 APPLIED SDV_EC001-004
VER.1.01 02/08/2010 APPLIED SDV_EC005-007
VER.1.02 02/09/2010 APPLIED SDV_EC010
VER.1.03 02/10/2010 APPLIED SDV_EC011-013
VER.1.04 02/15/2010 APPLIED SDV_EC014
VER.1.05 02/16/2010 APPLIED SDV_EC015-019
VER.1.06 02/17/2010 APPLIED SDV_EC020-022
VER.1.07 02/18/2010 APPLIED SDV_EC024,025,027
VER.1.08 02/19/2010 APPLIED SDV_EC028,030-032
VER.1.09 02/22/2010 APPLIED SDV_EC033-035
VER.1.10 02/23/2010 APPLIED SDV_EC036-038

VER.1.11 03/18/2010 APPLIED SDV_EC045,046
VER.1.12 03/19/2010 APPLIED SDV_EC040-043,CNV_EC061-066
VER.1.13 03/22/2010 APPLIED SDV_EC048-052
VER.1.14 03/24/2010 APPLIED SDV_EC053-059, ECR001-003
VER.1.15 03/26/2010 APPLIED SDV_EC061
VER.1.16 04/1/2010 APPLIED SDV_EC065-075, except SDV_EC069, SDV_EC076-079
VER.1.17 04/6/2010 APPLIED SDV_EC080-084, ECR004, ECR008 and ECR009
VER.1.18 04/8/2010 APPLIED SDV_EC085-091, SDV_ECR010-013
VER.1.19 04/13/2010 APPLIED SDV_EC092-094, change PCB footprint of all resistors from xxx to xxx-R, SDV_EC103 and EC047
VER.1.20 04/16/2010 APPLIED SDV_EC105-110 and ECR023, ECR026 and ECR027
VER.1.21 04/21/2010 APPLIED ECR028

NOZOM-3 UMA SDV: BASE LOGIC NZM3 SWG SDV VER 1.21 04/21/2010
VER.1.22 04/26/2010 APPLIED EC111-113, EC115-117 and assembly options for UMA planar

NOZOMI-3 UMA SDV2 :BASE LOGIC NZM3 UMA SDV VER.1.22 04/26/2010

VER.2.00 04/27/2010 APPLIED NZM3_UMA_SDV2_EC003-007
VER.2.01 04/29/2010 APPLIED NZM3_UMA_SDV2_EC008-018
VER.2.02 05/04/2010 APPLIED NZM3_UMA_SDV2_EC019-036
VER.2.03 05/12/2010 APPLIED NZM3_UMA_SDV2_EC037-038
VER.2.04 05/13/2010 APPLIED NZM3_UMA_SDV2_EC039
VER.2.05 05/21/2010 APPLIED NZM3_UMA_SDV2_EC040, EC041, EC044 and NZM3_UMA_SDV2_ECR001-002
VER.2.06 05/25/2010 APPLIED NZM3_UMA_SDV2_EC045, EC046, EC047, EC050, EC056, EC058, EC059, EC060 and EC062
VER.2.07 06/02/2010 APPLIED NZM3_UMA_SDV2_EC064-EC067
VER.2.08 06/03/2010 APPLIED NZM3_UMA_SDV2_EC068-EC070

NOZOMI-3 UMA FVT2:BASE LOGIC NZM3 UMA SDV2 VER.2.08 06/03/2010

VER.3.00 06/21/2010 APPLIED NZM3_UMA_FVT2_EC001-EC004, EC007-EC014, EC016-EC020, EC022 and EC024
VER.3.01 06/25/2010 APPLIED NZM3_UMA_FVT2_EC026, EC027, EC029, EC030, EC031 and EC033.
VER.3.02 07/02/2010 APPLIED NZM3_UMA_FVT2_EC036, EC037, EC039 and EC042
VER.3.03 07/05/2010 APPLIED NZM3_UMA_FVT2_EC044-EC050, EC052-EC055 and EC057
VER.3.04 07/05/2010 APPLIED NZM3_UMA_FVT2_EC059, EC062-EC065
VER.3.05 07/05/2010 APPLIED NZM3_UMA_FVT2_EC068-EC071
VER.3.06 07/09/2010 APPLIED NZM3_UMA_FVT2_EC072-EC081
VER.3.07 07/19/2010 APPLIED NZM3_UMA_FVT2_EC082-EC084
VER.3.08 07/20/2010 Rename SA_DIMM_VERFDQ as SA_DIMM_VREFDQ
Rename SB_DIMM_VERFDQ as SB_DIMM_VREFDQ
Shift page title 87-99
VER.3.09 07/23/2010 APPLIED NZM3_UMA_FVT2_EC085

NOZOMI-3 UMA MSIT:BASE LOGIC NZM3 UMA FVT2 VER.3.09 07/23/2010

VER.4.00 07/26/2010 APPLIED NZM3_UMA_MSIT_EC001, EC002, EC007 and EC008
VER.4.01 07/29/2010 APPLIED NZM3_UMA_MSIT_EC009-019
VER.4.02 08/02/2010 APPLIED NZM3_UMA_MSIT_EC020, EC023, EC024 and EC025
VER.4.03 08/04/2010 APPLIED NZM3_UMA_MSIT_EC028
VER.4.04 08/09/2010 APPLIED NZM3_UMA_MSIT_EC029-036 and EC039
VER.4.05 08/11/2010 APPLIED NZM3_UMA_MSIT_EC042-044
VER.4.06 08/13/2010 APPLIED NZM3_UMA_MSIT_EC045-048
VER.4.07 08/17/2010 APPLIED NZM3_UMA_MSIT_EC050
VER.4.08 08/23/2010 APPLIED NZM3_UMA_MSIT_EC051

NOZOMI-3 UMA SIT:BASE LOGIC NZM3 UMA MSIT VER.4.08 08/23/2010

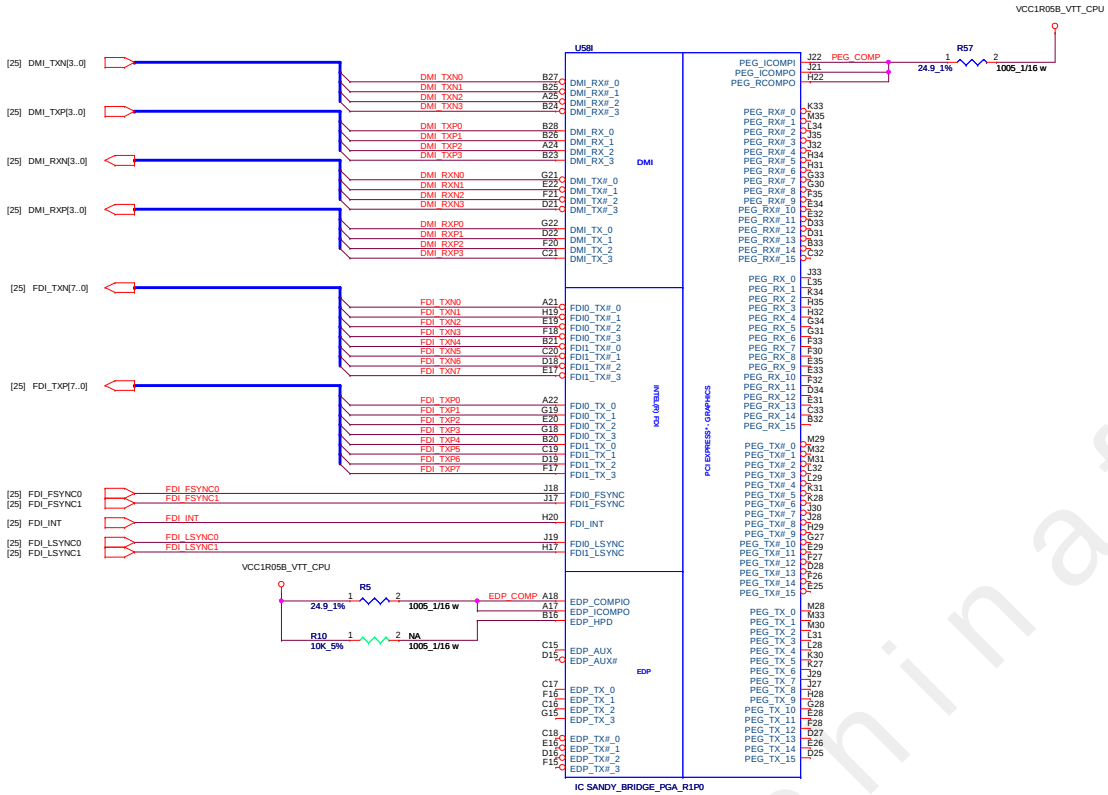
VER.5.00 08/31/2010 APPLIED NZM3_UMA_SIT_EC001, EC002 and EC004
VER.5.01 09/03/2010 APPLIED NZM3_UMA_SIT_EC005-EC008
VER.5.02 09/08/2010 APPLIED NZM3_UMA_SIT_EC009-EC013
VER.5.03 09/14/2010 APPLIED NZM3_UMA_SIT_EC014-EC017
VER.5.04 09/20/2010 APPLIED NZM3_UMA_SIT_EC019-EC021 and EC023
VER.5.05 09/23/2010 APPLIED NZM3_UMA_SIT_EC026, EC028, EC029 and EC030
VER.5.06 09/27/2010 APPLIED NZM3_UMA_SIT_EC031-EC037
VER.5.07 09/29/2010 APPLIED NZM3_UMA_SIT_EC040
VER.5.08 10/01/2010 APPLIED NZM3_UMA_SIT_EC041-EC044
VER.5.09 10/04/2010 APPLIED NZM3_UMA_SIT_EC045-EC050
VER.5.10 10/06/2010 Delete NPTH6, Add NUT3 on page 98
VER.5.11 10/15/2010 APPLIED NZM3_UMA_SIT_EC051-EC053

NOZOMI-3 UMA SVT:BASE LOGIC NZM3 UMA SIT VER.5.11 10/15/2010

VER.6.00 10/21/2010 APPLIED NZM3_UMA_SVT_EC001, EC002, EC004, EC005 and EC006
VER.6.01 10/26/2010 APPLIED NZM3_UMA_SVT_EC007, EC008 and EC009
VER.6.02 11/02/2010 APPLIED NZM3_UMA_SVT_EC010, EC011 and EC012
VER.6.03 11/08/2010 APPLIED NZM3_UMA_SVT_EC016 and EC017
VER.6.04 11/12/2010 APPLIED NZM3_UMA_SVT_EC019 and EC020
VER.6.05 11/17/2010 APPLIED NZM3_UMA_SVT_EC022
VER.6.06 11/22/2010 APPLIED NZM3_UMA_SVT_EC023

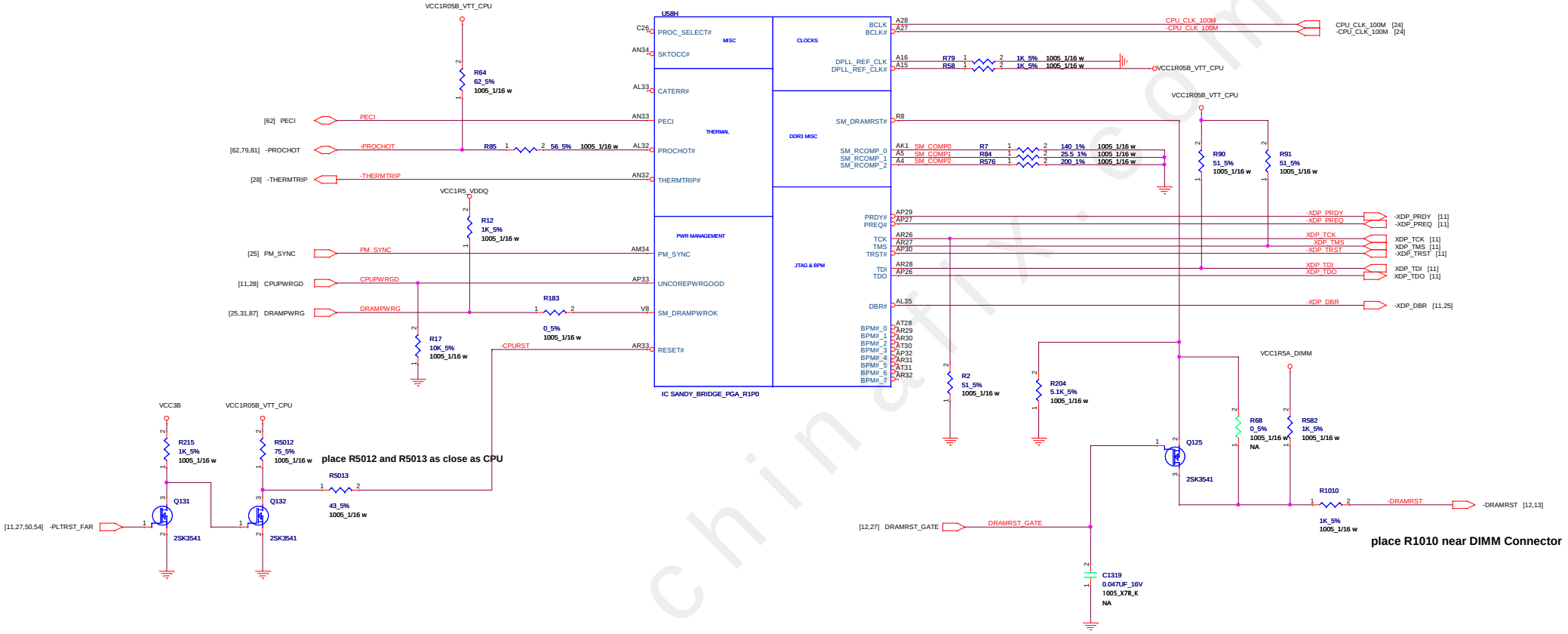
www.chinafix.com

FLEX Computing			
Project Name : H430UI1		Title : EC HISTORY	
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 02 of 99	



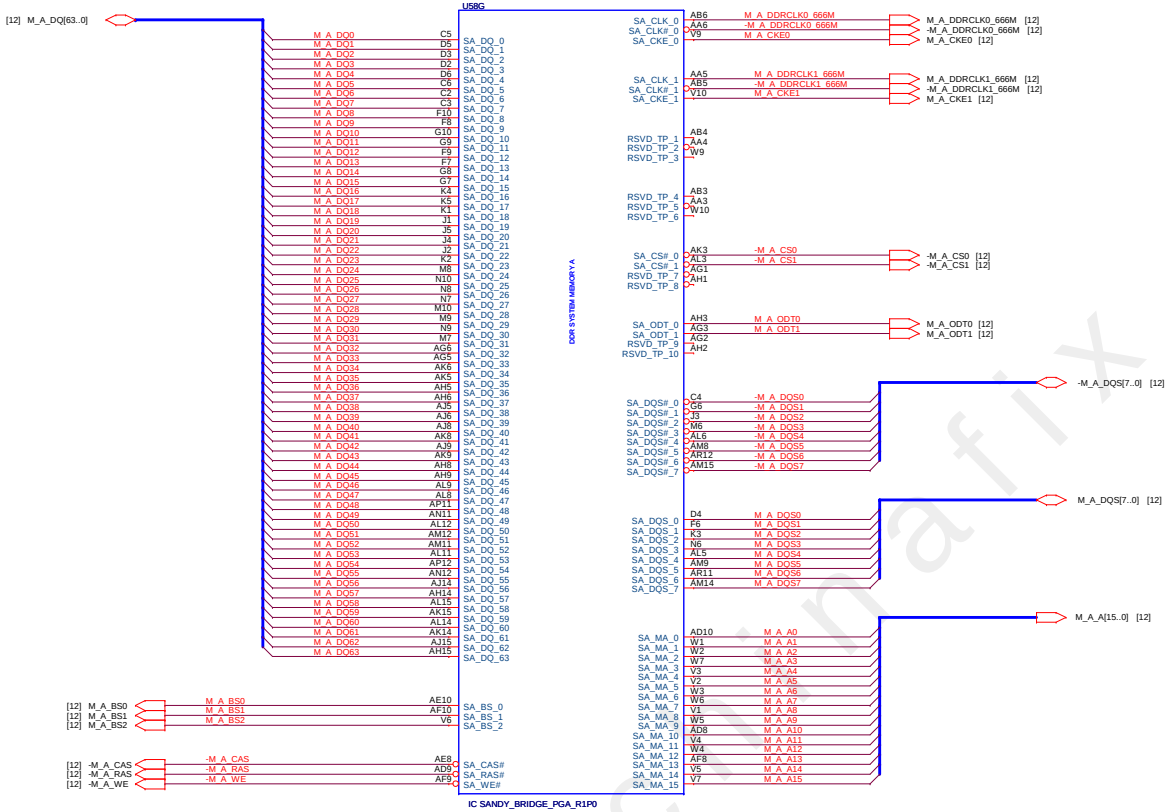
www.chinafix.com

FLEXComputing			
Project Name : H430UI1	Title : CPU(1/8) DMI/EDP/PEG/FDI		
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F	
Date: Monday, December 13, 2010	Sheet : 03 of 99		



www.chinafix.com

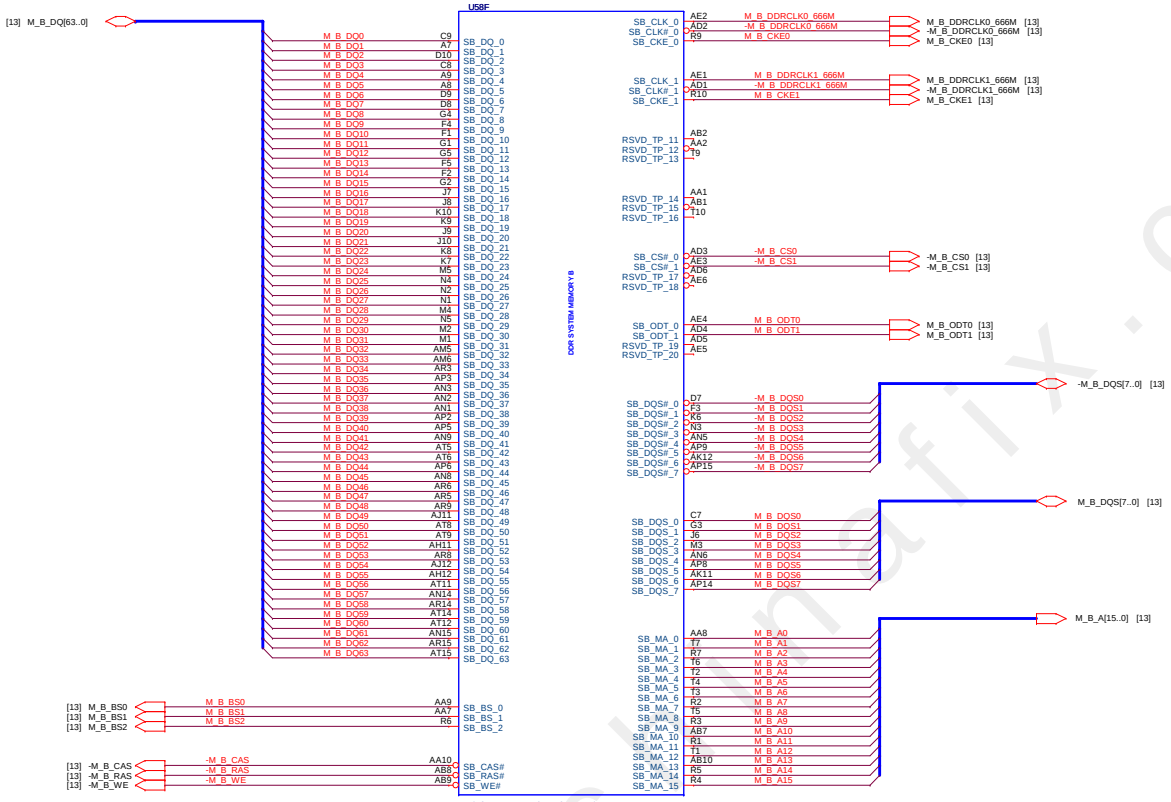
FLEXComputing			
Project Name : H430UI1	Title : CPU(2/8) CLK/MISC/JTAG		
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 04 of 99	



www.chinafix.com

FLEX Computing

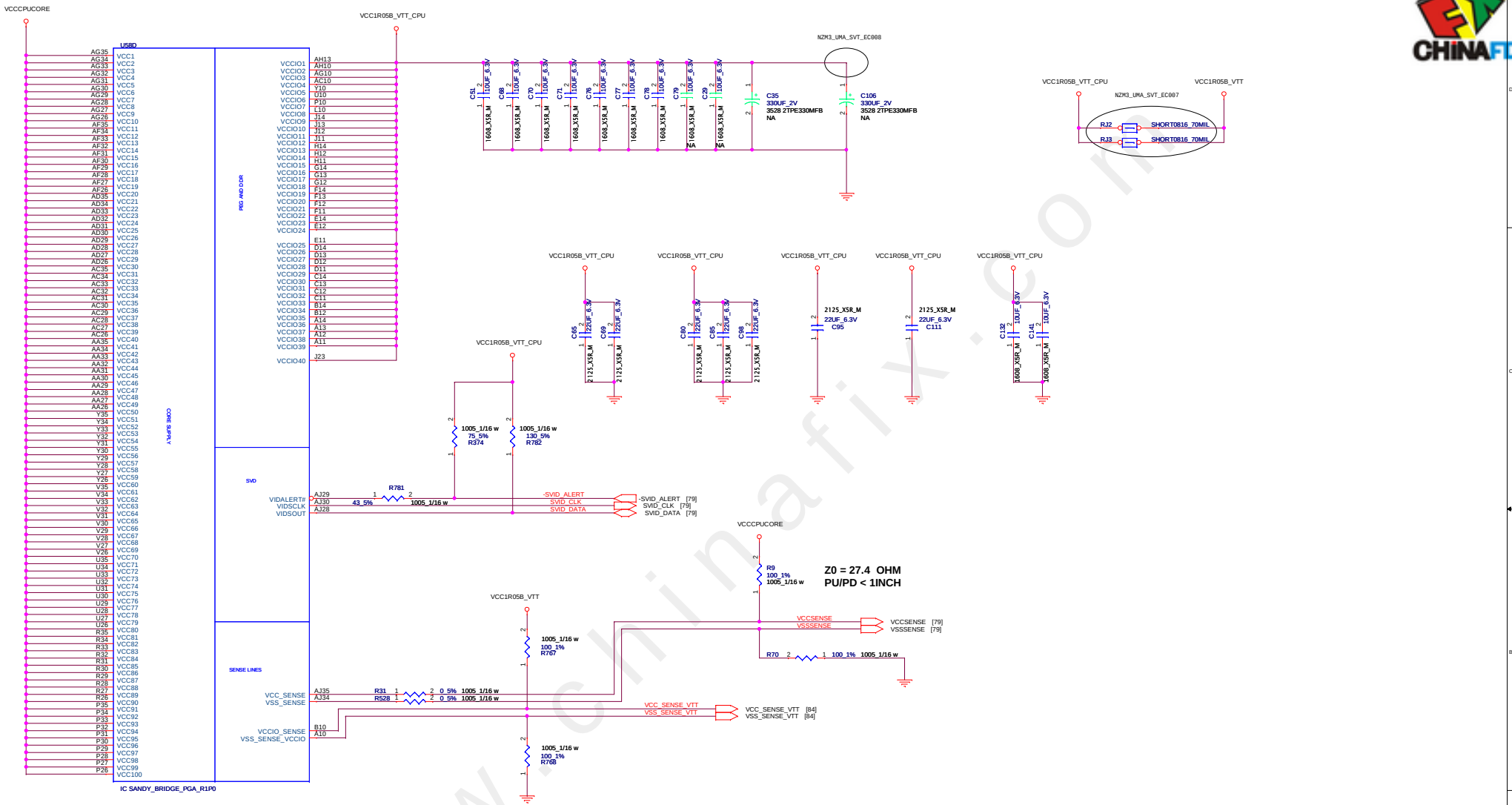
Project Name : H430UI1	Title : CPU(3/8) DDR3 CH- A		
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 05 of 99	



www.chinafix.com

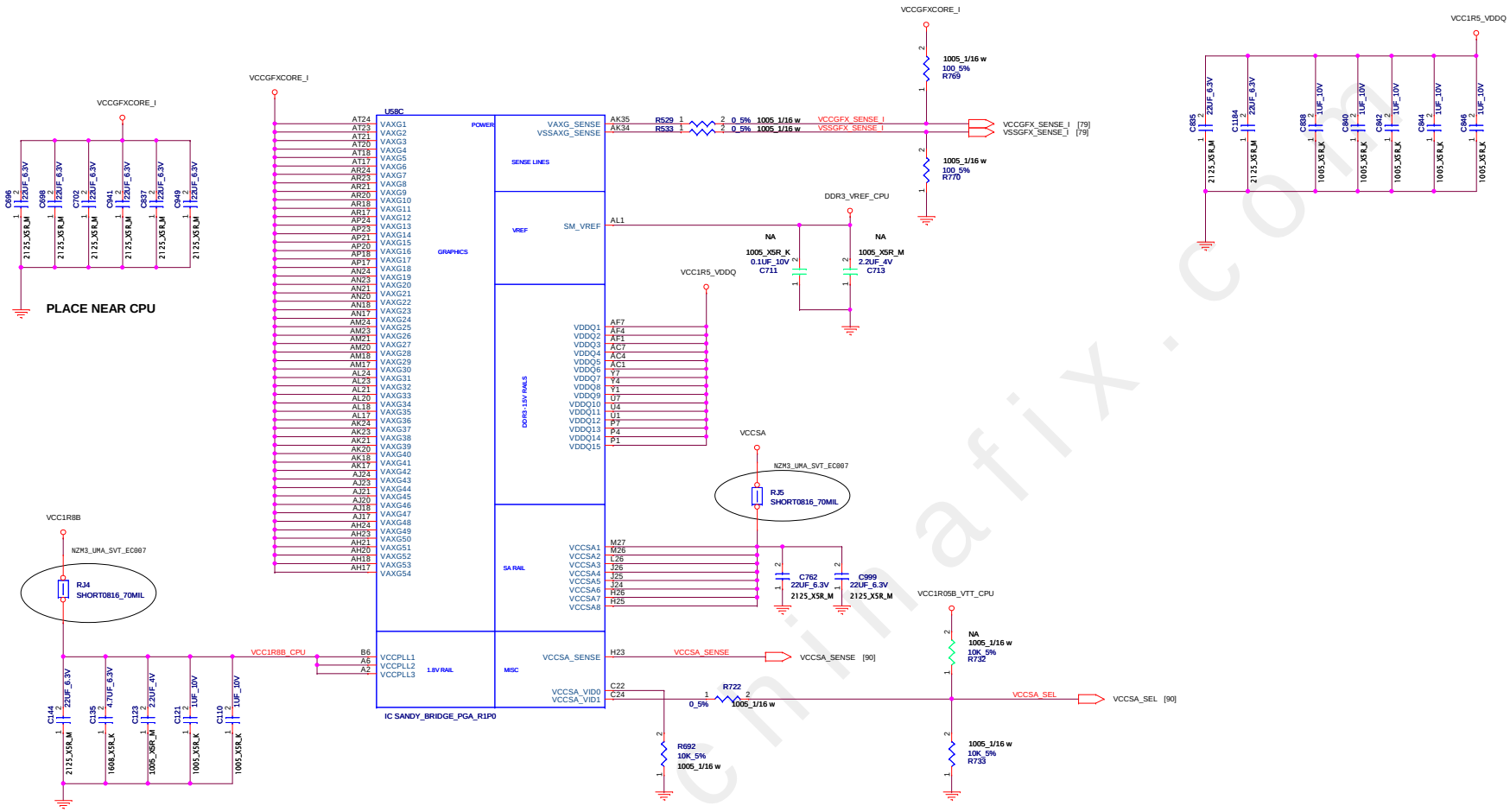
FLEX Computing

Project Name : H430UI1	Title : CPU(4/8) DDR3 CH- B		
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 06 of 99	



www.chinafix.com

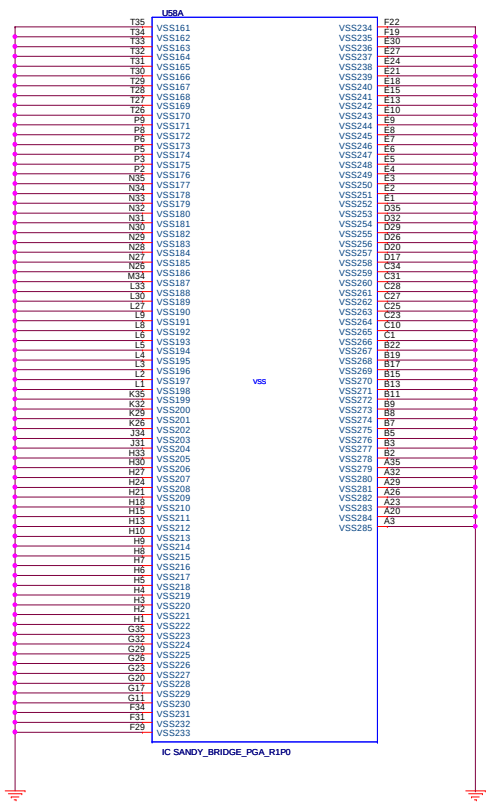
FLEX Computing			
Project Name : H430UI1	Title : CPU(5/8) PROCESSOR POWER		
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F	
Date: Monday, December 13, 2010	Sheet : 07 of 99		

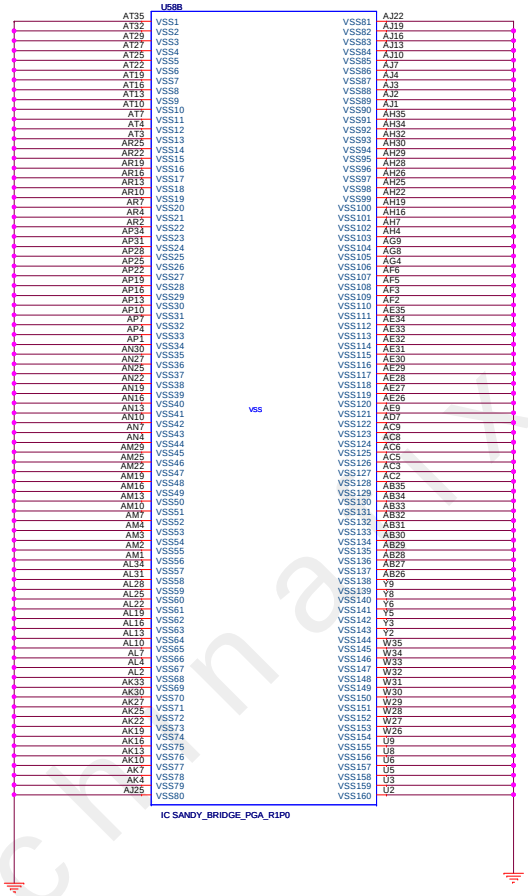


www.chinafix.com

FLEX Computing

Project Name : H430UI1	Title : CPU(6/8) GRAPHICS POWER	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 08 of 99	

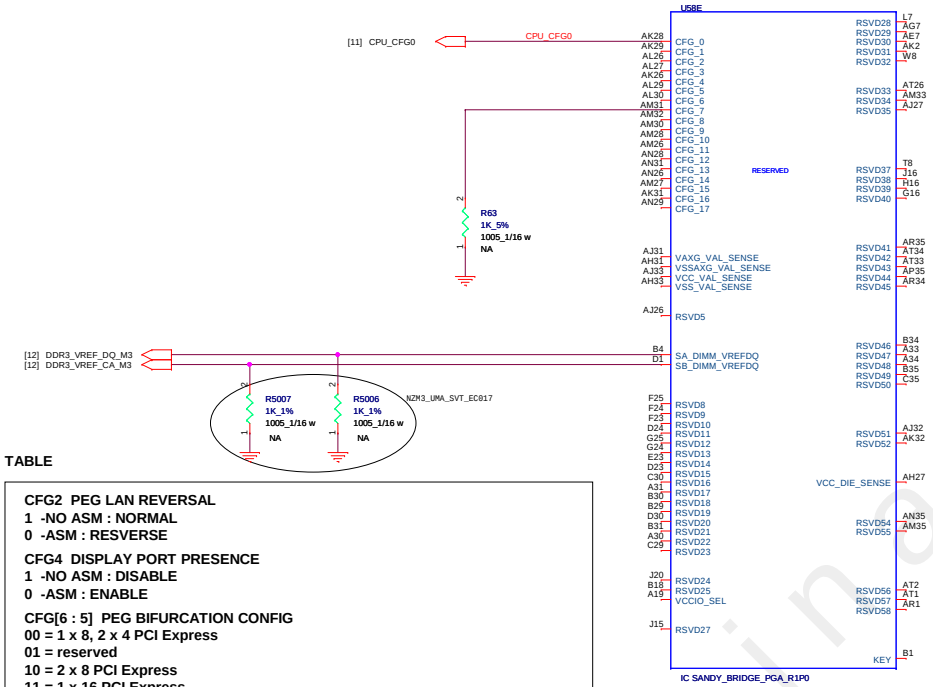




www.chinafix.com

FLEX Computing

Project Name : H430UI1	Title : CPU(7/8) GND		
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 09 of 99	



TABLE

CFG2 PEG LAN REVERSAL
1 -NO ASM : NORMAL
0 -ASM : RESVERSE

CFG4 DISPLAY PORT PRESENCE
1 -NO ASM : DISABLE
0 -ASM : ENABLE

CFG[6 : 5] PEG BIFURCATION CONFIG
00 = 1 x 8, 2 x 4 PCI Express
01 = reserved
10 = 2 x 8 PCI Express
11 = 1 x 16 PCI Express

CFG7 PEG DEFER TRAINING
1 -NO ASM :PEG TRAIN IMMEDIATELY FOLLOWING XXRESETB DEASSERTION
0 -ASM : PEG WAIT FOR BIOS FOR TRAINING

www.chinafix.com

FLEX Computing

Project Name : H430UI1	Title : CPU(8/8) CFG/RESERVED	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 10 of 99	

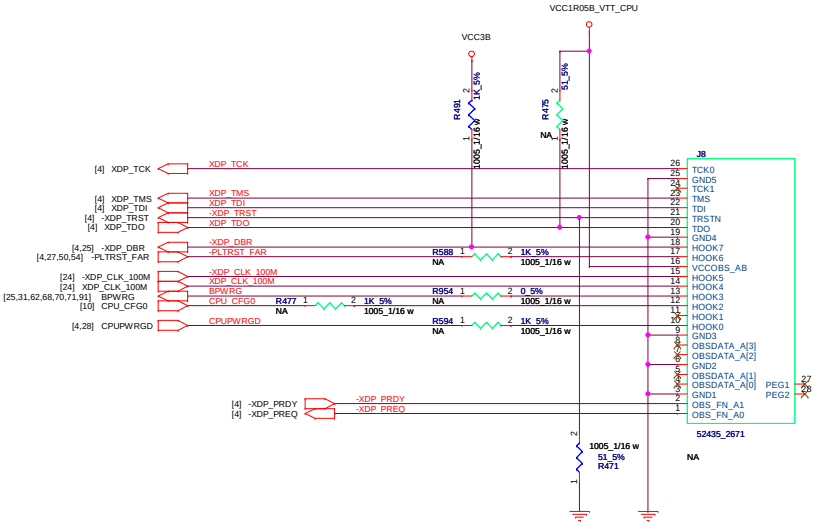


TABLE NOTE: J8 "ASM" FOR SDV1 ONLY.

SIGNAL	REF DES	ENABLE	DISABLE
TDO	R475	ASM	NO ASM
TRST#	R471	ASM	ASM
DBRST#	R491	ASM	ASM
RESET#	R588	ASM	NO ASM
CFG0	R477	ASM	NO ASM
PWRGD	R594	ASM	NO ASM
BPWRG	R954	ASM	NO ASM
	J8	ASM	NO ASM

LOGIC

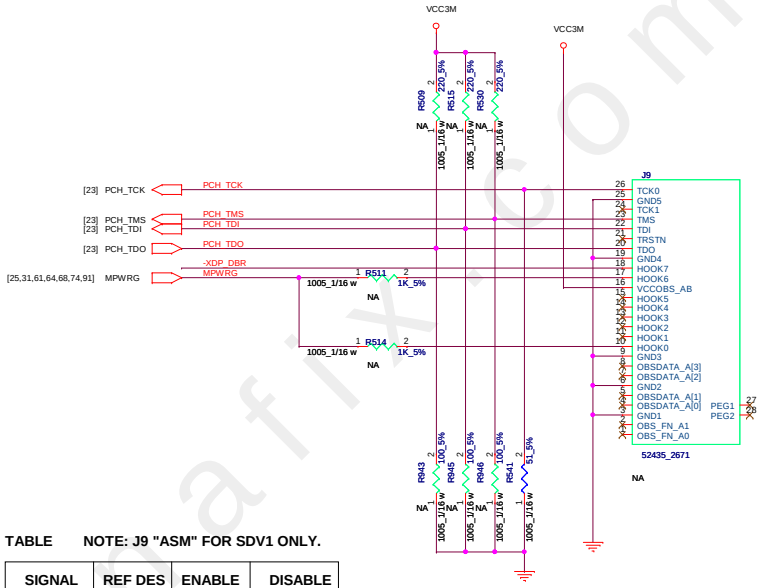


TABLE NOTE: J9 "ASM" FOR SDV1 ONLY.

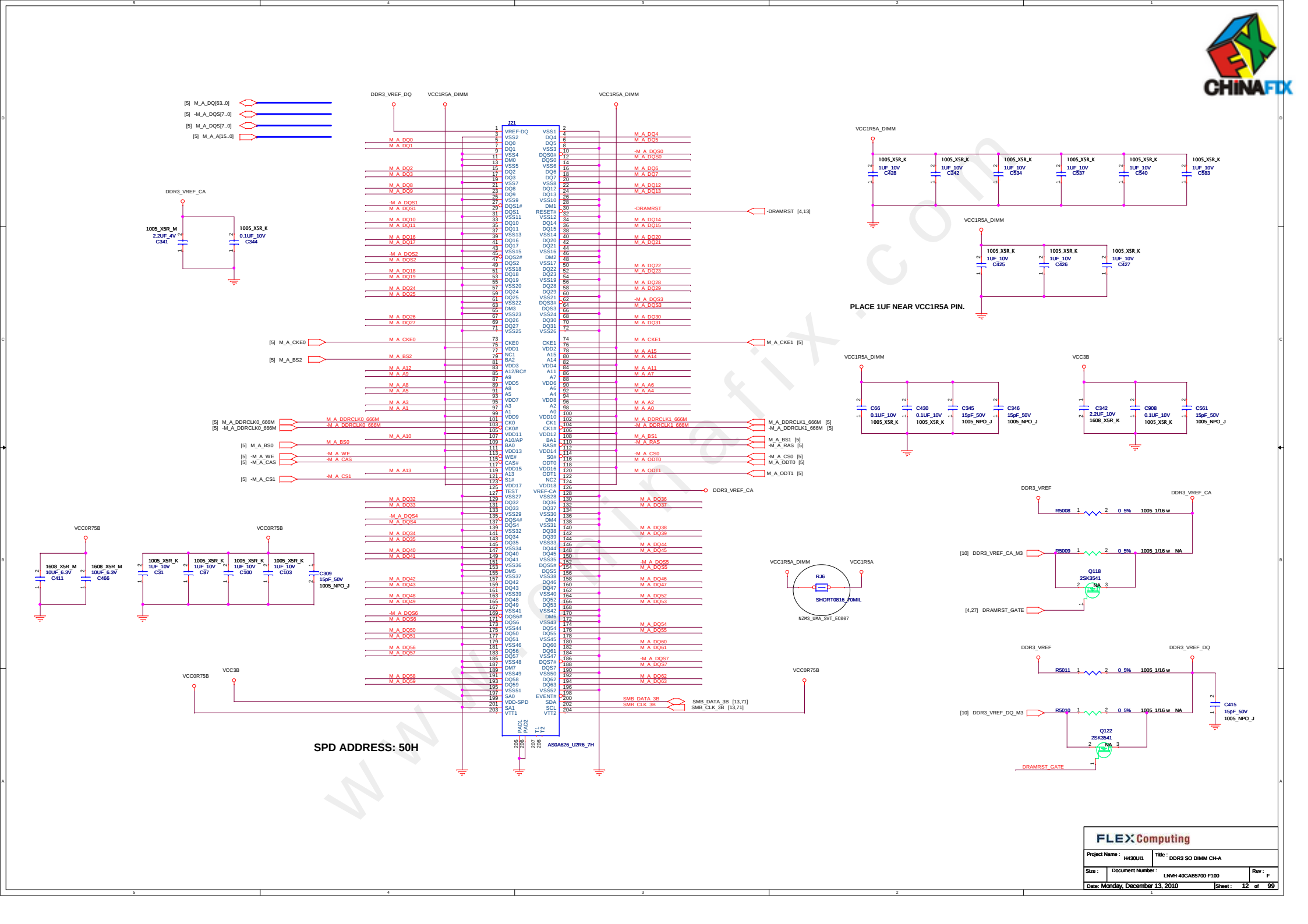
SIGNAL	REF DES	ENABLE	DISABLE
TDO	R509	200	NO ASM
	R943	100	NO ASM
TMS	R530	220	NO ASM
	R946	100	NO ASM
TDI	R515	220	NO ASM
	R945	100	NO ASM
TCK	R541	51	51
MPWRG	R511	ASM	NO ASM
	R514	ASM	NO ASM
	J9	ASM	NO ASM

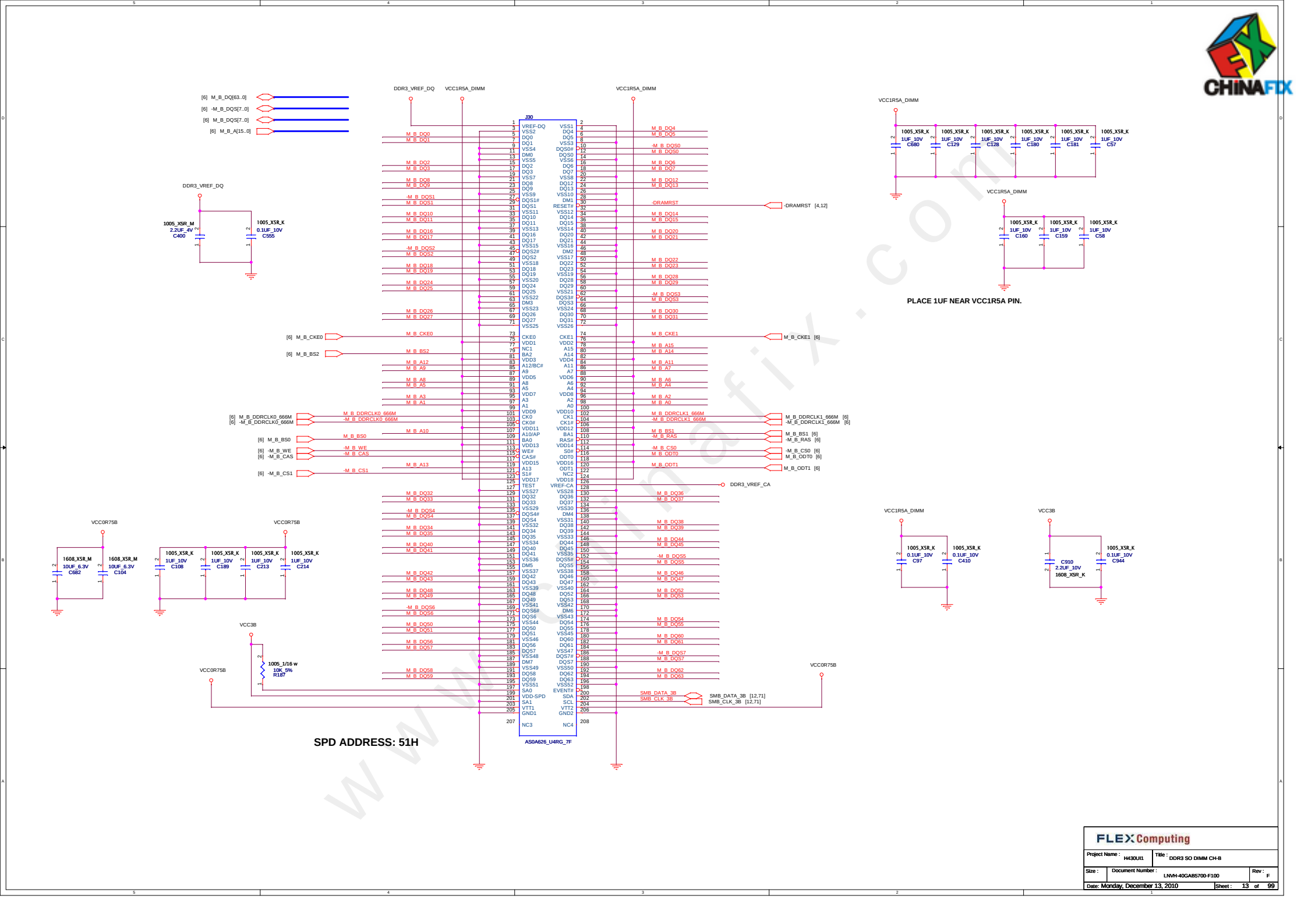
LOGIC

www.chinafix.com

FLEX Computing

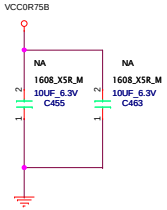
Project Name : H430UI1	Title : XDP CONNECTOR		
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F	
Date: Monday, December 13, 2010	Sheet : 11 of 99		

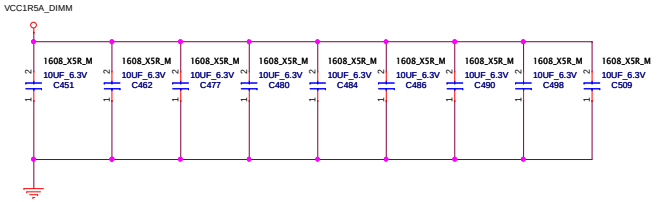

[5] M_A_DQ[63..0]
[5] -M_A_DQS[7..0]
[5] M_A_DQS[7..0]
[5] M_A_A[15..0]
DDR3_VREF_DQ
VCC1R5A_DIMM
VCC1R5A_DIMM
J21
AS0A626_U2R6_7H
DDR3_VREF_CA
VCC1R5A_DIMM
PLACE 1UF NEAR VCC1R5A PIN.
VCC1R5A_DIMM
VCC3B
VCC0R75B
VCC0R75B
VCC1R5A_DIMM
VCC1R5A
SHORT0816_70MIL
NZM3_UMA_SVT_EC007
DDR3_VREF
DDR3_VREF_CA
DDR3_VREF
DDR3_VREF_DQ
VCC0R75B
VCC3B
SPD ADDRESS: 50H
FLEX Computing
Project Name : H430UI1
Title : DDR3 SO DIMM CH-A
Size :
Document Number : LNVH-40GAB5700-F100
Rev : F
Date: Monday, December 13, 2010
Sheet : 12 of 99

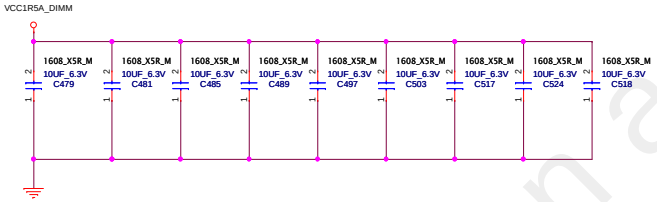


www.chinafix.com

FLEX Computing			
Project Name : H430UI1	Title : DDR3 SO DIMM CH-B		
Size :	Document Number : LNVH-40GAB5700-F100	Rev : F	
Date: Monday, December 13, 2010	Sheet : 13 of 99		







www.chinafix.com

FLEX Computing

Project Name : H430UI1	Title : DDR3 DECOUPLING		
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 14 of 99	

www.chinafix.com

FLEX Computing

Project Name : H430UI1	Title : BLANK	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 15 of 99	

www.chinafix.com

FLEX Computing

Project Name : H430UI1		Title : BLANK	
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 16 of 99	

www.chinafix.com

FLEX Computing

Project Name : H430UI1		Title : BLANK	
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 17 of 99	

www.chinafix.com

FLEX Computing

Project Name : H430UI1		Title : BLANK	
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 18 of 99	

www.chinafix.com

FLEX Computing

Project Name : H430UI1		Title : BLANK	
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 19 of 99	

www.chinafix.com

FLEX Computing

Project Name : H430UI1		Title : BLANK	
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 20 of 99	

www.chinafix.com

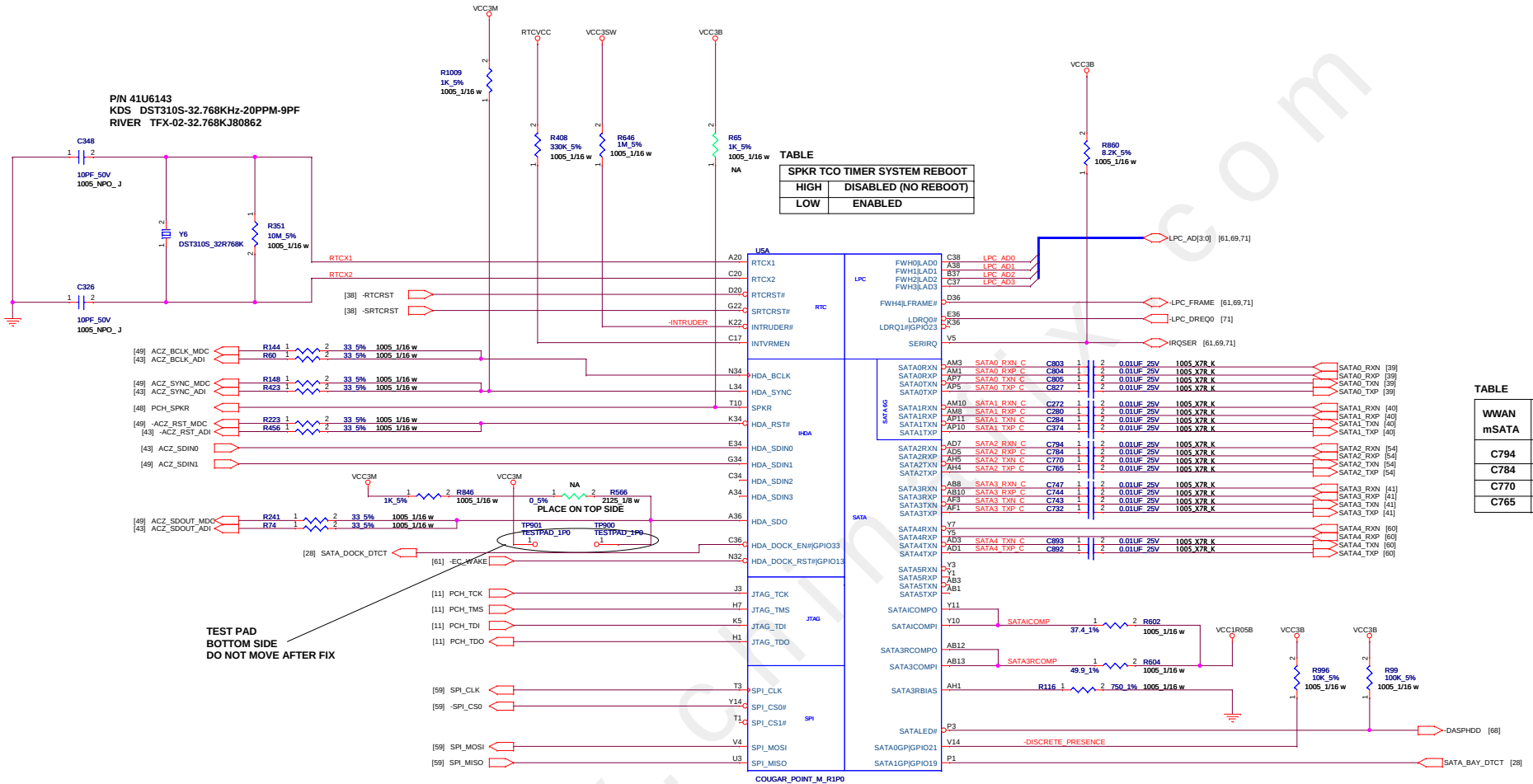
FLEX Computing

Project Name : H430UI1	Title : BLANK	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 21 of 99	

www.chinafix.com

FLEX Computing

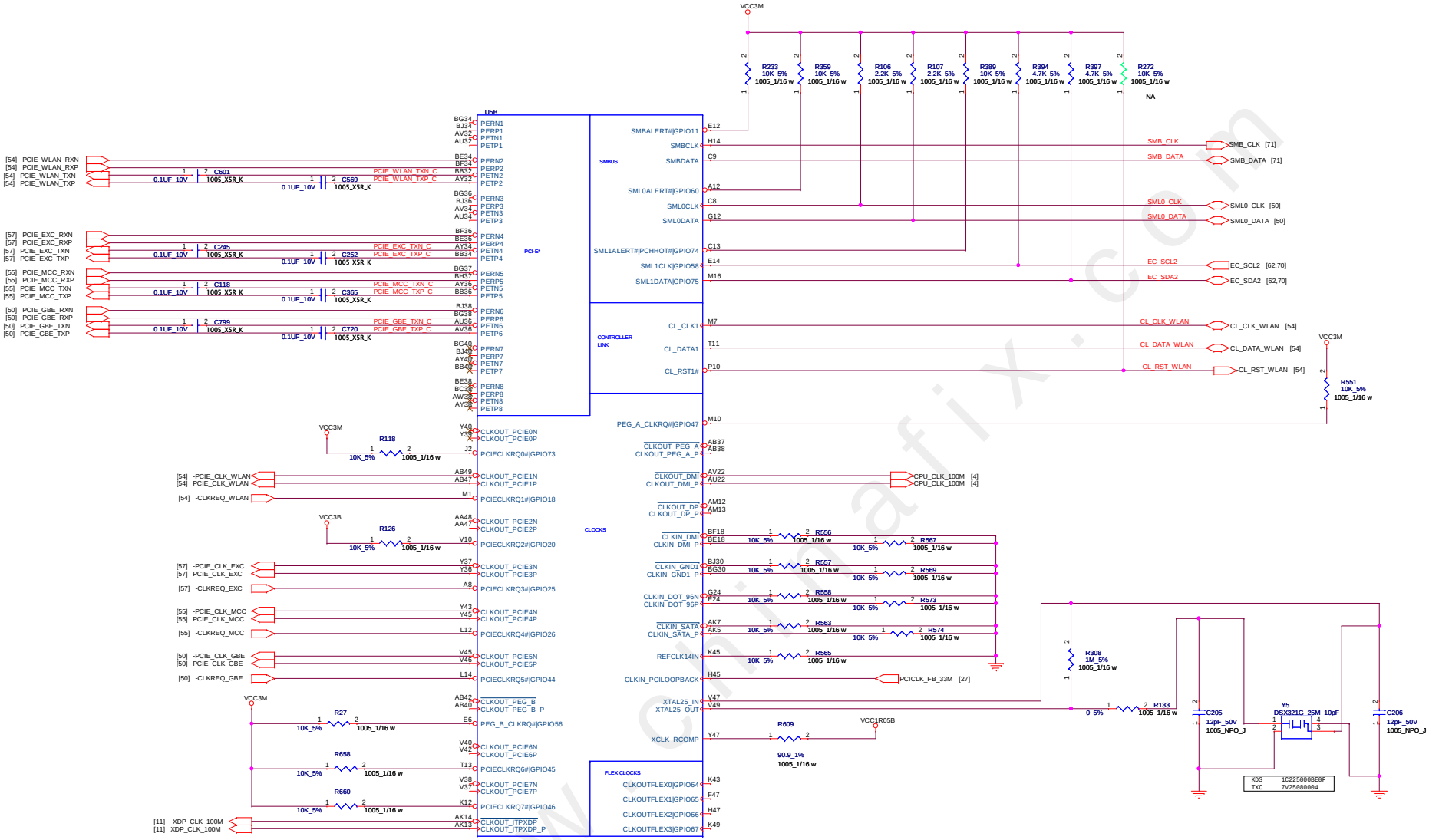
Project Name : H430UI1	Title : BLANK	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 22 of 99	

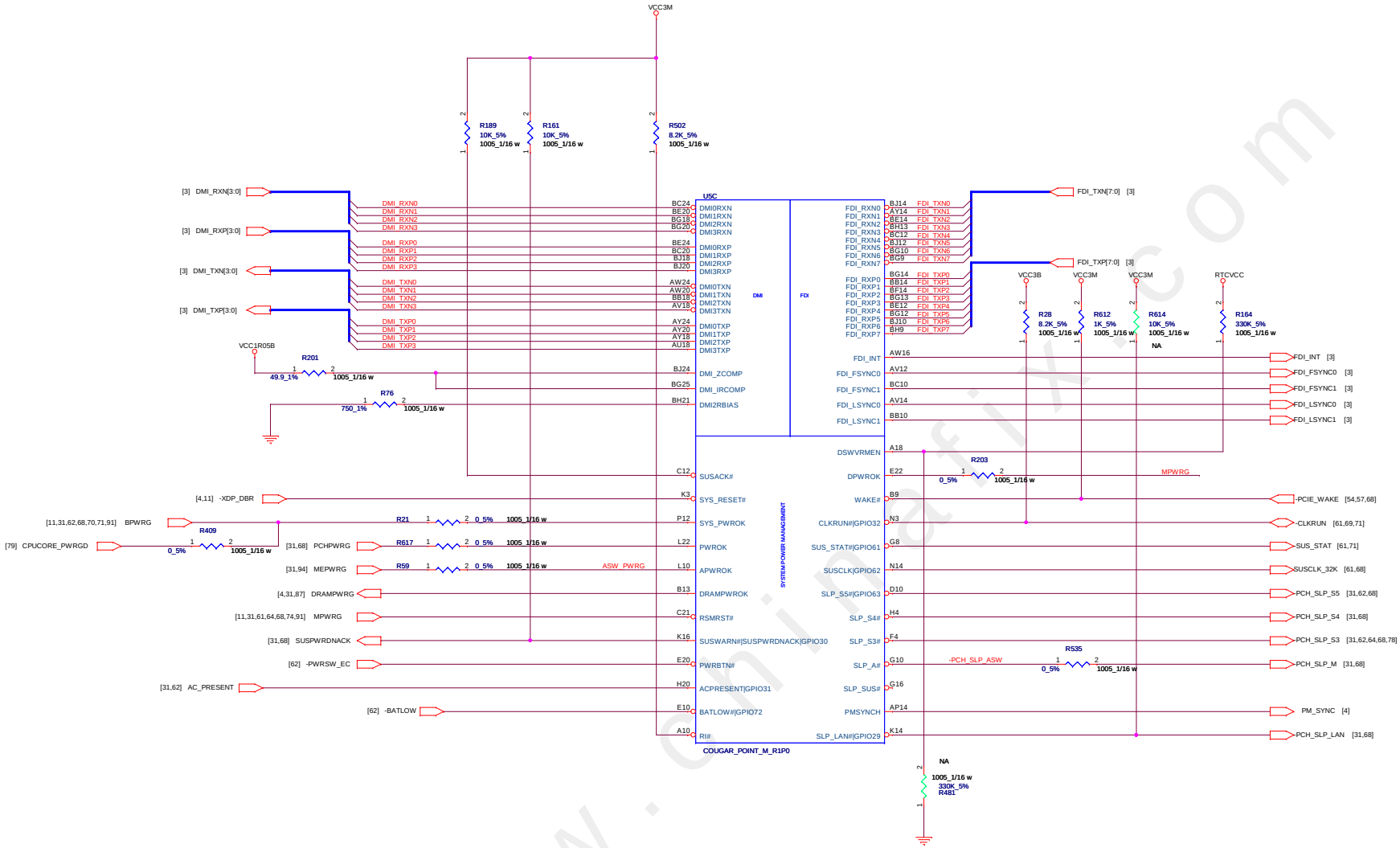


www.chinafix.com

FLEX Computing

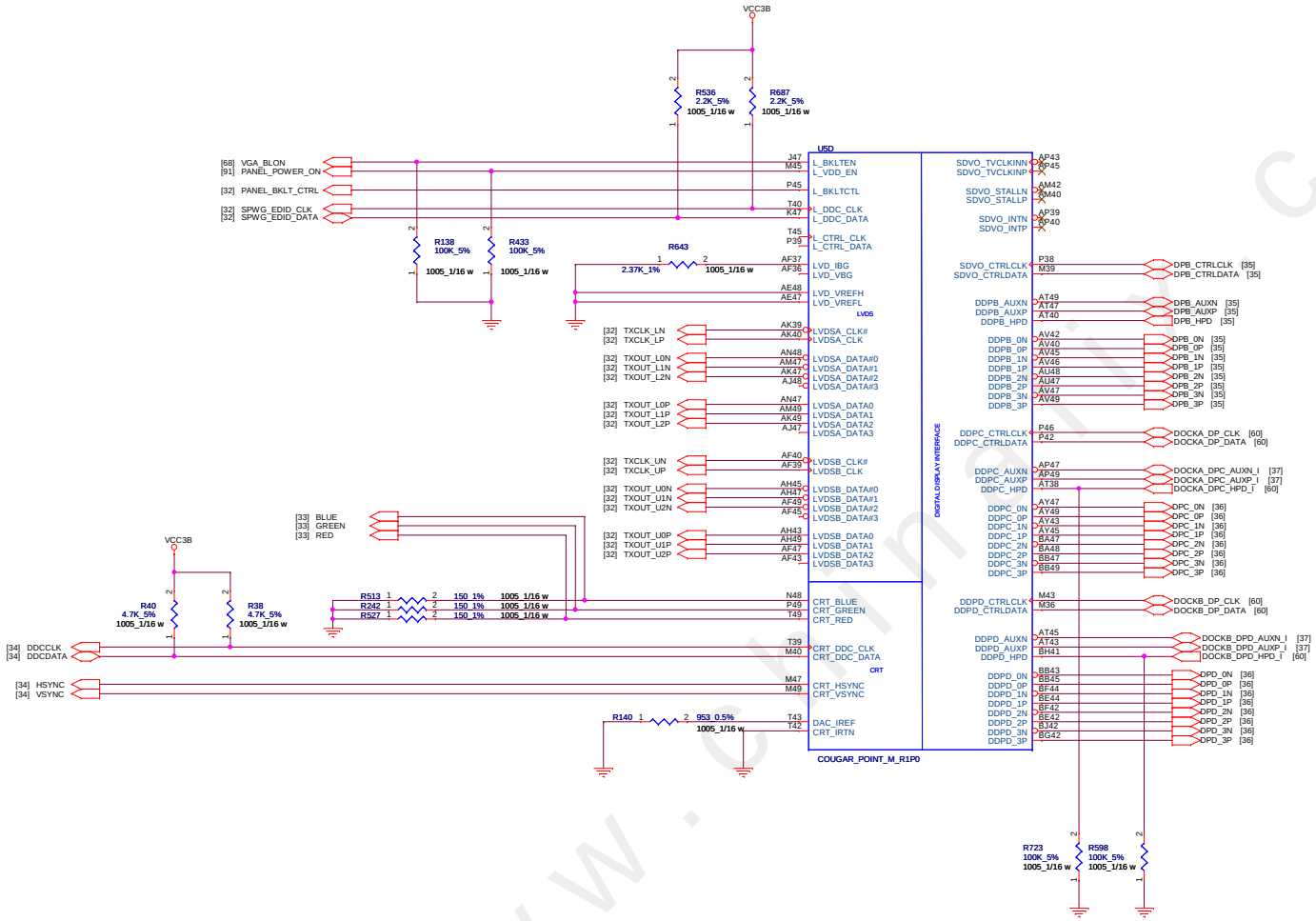
Project Name : H430UI1	Title : PCH(1/9):HDA/JTAG/SPI/SATA
Size : C	Document Number : LNVH-40GAB5700-F100
Rev : F	
Date: Monday, December 13, 2010	Sheet : 23 of 99


VCC3M
R233 10K_5% 1005_1/16 w
R359 10K_5% 1005_1/16 w
R106 2.2K_5% 1005_1/16 w
R107 2.2K_5% 1005_1/16 w
R389 10K_5% 1005_1/16 w
R394 4.7K_5% 1005_1/16 w
R397 4.7K_5% 1005_1/16 w
R272 10K_5% 1005_1/16 w
NA
USB
PCI-E*
SMBUS
CONTROLLER LINK
CLOCKS
FLEX CLOCKS
COUGAR_POINT_M_R1P0
SMBALERT#|GPIO11
SMBCLK
SMBDATA
SML0ALERT#|GPIO60
SML0CLK
SML0DATA
SML1ALERT#|PCHHOT#|GPIO74
SML1CLK|GPIO58
SML1DATA|GPIO75
SMB_CLK
SMB_DATA
SML0_CLK
SML0_DATA
EC_SCL2
EC_SDA2
CL_CLK1
CL_DATA1
CL_RST1#
CL_CLK_WLAN
CL_DATA_WLAN
CL_RST_WLAN
R551 10K_5% 1005_1/16 w
PEG_A_CLKRQ#|GPIO47
CLKOUT_PEG_A
CLKOUT_DMI
CLKOUT_DP
CLKIN_DMI
CLKIN_GND1
CLKIN_DOT_96N
CLKIN_SATA
REFCLK14IN
CLKIN_PCILOOPBACK
XTAL25_IN
XTAL25_OUT
XCLK_RCOMP
R609 90.9_1% 1005_1/16 w
R308 1M_5% 1005_1/16 w
R133 0_5% 1005_1/16 w
C205 12pF_50V 1005_NPO_J
C206 12pF_50V 1005_NPO_J
Y5 DSX321G_25M_10pF
KDS 1C225000BE0F
TXC 7V25000004
R118 R126 R27 R658 R660
CLKOUT_PCIE0N/P
PCIECLKRQ0#|GPIO73
CLKOUT_PCIE1N/P
PCIECLKRQ1#|GPIO18
CLKOUT_PCIE2N/P
PCIECLKRQ2#|GPIO20
CLKOUT_PCIE3N/P
PCIECLKRQ3#|GPIO25
CLKOUT_PCIE4N/P
PCIECLKRQ4#|GPIO26
CLKOUT_PCIE5N/P
PCIECLKRQ5#|GPIO44
CLKOUT_PEG_B
PEG_B_CLKRQ#|GPIO56
CLKOUT_PCIE6N/P
PCIECLKRQ6#|GPIO45
CLKOUT_PCIE7N/P
PCIECLKRQ7#|GPIO46
CLKOUT_ITPXDP
CLKOUT_ITPXDP_P
CLKOUTFLEX0|GPIO64
CLKOUTFLEX1|GPIO65
CLKOUTFLEX2|GPIO66
CLKOUTFLEX3|GPIO67
R556 R567 R557 R569 R558 R573 R563 R574 R565
10K_5%
1005_1/16 w
[54] PCIE_WLAN_RXN
[54] PCIE_WLAN_RXP
[54] PCIE_WLAN_TXN
[54] PCIE_WLAN_TXP
C601 C569
PCIE_WLAN_TXN_C
PCIE_WLAN_TXP_C
[57] PCIE_EXC_RXN
[57] PCIE_EXC_RXP
[57] PCIE_EXC_TXN
[57] PCIE_EXC_TXP
C245 C252
PCIE_EXC_TXN_C
PCIE_EXC_TXP_C
[55] PCIE_MCC_RXN
[55] PCIE_MCC_RXP
[55] PCIE_MCC_TXN
[55] PCIE_MCC_TXP
C118 C365
PCIE_MCC_TXN_C
PCIE_MCC_TXP_C
[50] PCIE_GBE_RXN
[50] PCIE_GBE_RXP
[50] PCIE_GBE_TXN
[50] PCIE_GBE_TXP
C799 C720
PCIE_GBE_TXN_C
PCIE_GBE_TXP_C
0.1UF_10V
1005_X5R_K
[54] -PCIE_CLK_WLAN
[54] PCIE_CLK_WLAN
[54] -CLKREQ_WLAN
[57] -PCIE_CLK_EXC
[57] PCIE_CLK_EXC
[57] -CLKREQ_EXC
[55] -PCIE_CLK_MCC
[55] PCIE_CLK_MCC
[55] -CLKREQ_MCC
[50] -PCIE_CLK_GBE
[50] PCIE_CLK_GBE
[50] -CLKREQ_GBE
[11] -XDP_CLK_100M
[11] XDP_CLK_100M
CPU_CLK_100M [4]
PCICLK_FB_33M [27]
VCC3B
VCC1R05B
FLEX Computing
Project Name : H430UI1
Title : PCH(2/9):PCI-E/SMBUS/CLK
Size : C
Document Number : LNVH-40GAB5700-F100
Rev : F
Date: Monday, December 13, 2010
Sheet : 24 of 99



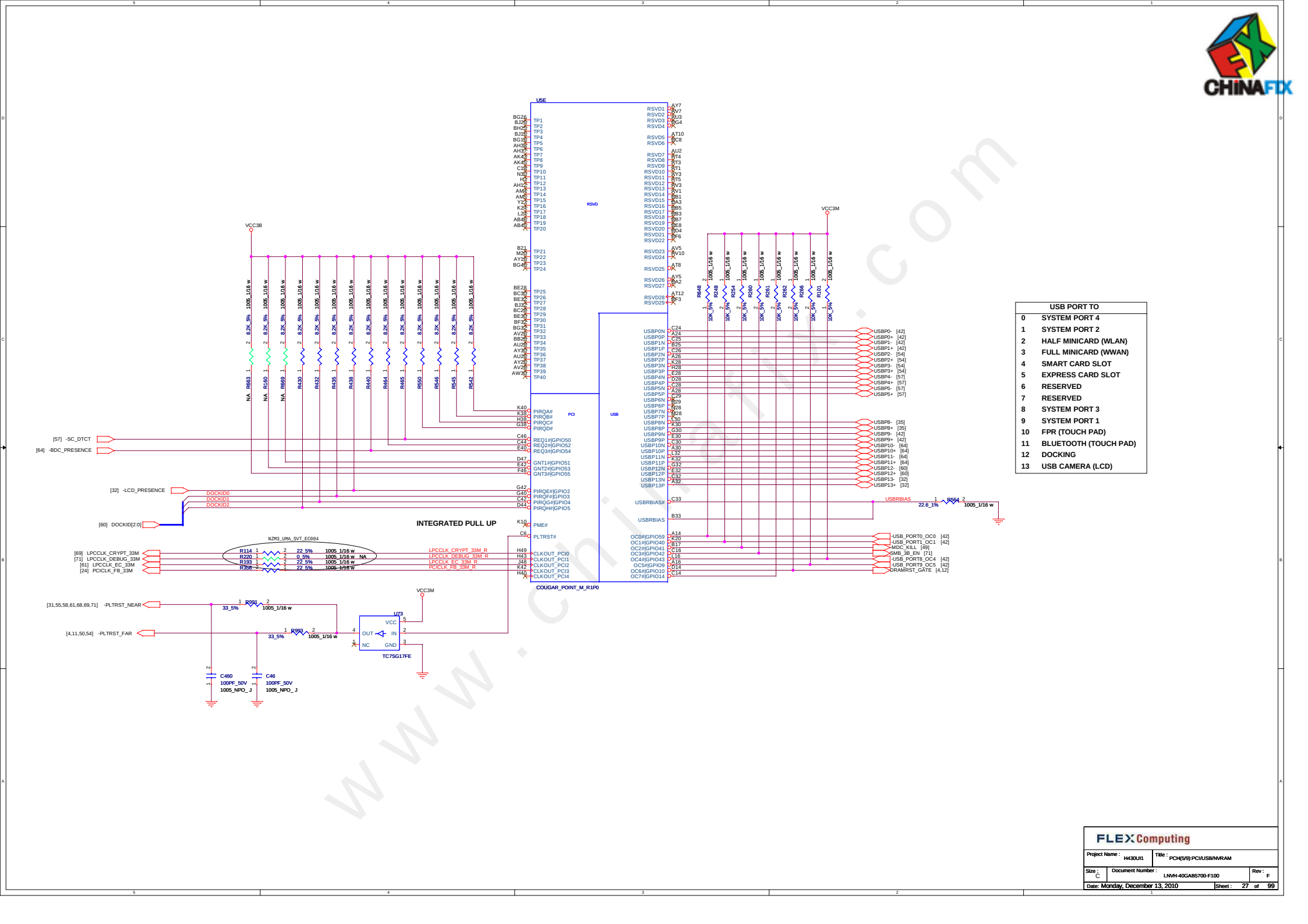
www.chinafix.com

FLEXComputing			
Project Name : H430UI1	Title : PCH(3/9):DMI/FDI/PM		
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F	
Date: Monday, December 13, 2010	Sheet : 25 of 99		



www.chinafix.com

FLEX Computing			
Project Name : H430UI1	Title : PCH(4/9):LVDS/CRT/DDI		
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 26 of 99	



USB PORT TO	
0	SYSTEM PORT 4
1	SYSTEM PORT 2
2	HALF MINICARD (WLAN)
3	FULL MINICARD (WWAN)
4	SMART CARD SLOT
5	EXPRESS CARD SLOT
6	RESERVED
7	RESERVED
8	SYSTEM PORT 3
9	SYSTEM PORT 1
10	FPR (TOUCH PAD)
11	BLUETOOTH (TOUCH PAD)
12	DOCKING
13	USB CAMERA (LCD)

FLEX Computing

Project Name : H430UI1	Title : PCH(5/9):PCI/USB/NVRAM		
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 27 of 99	

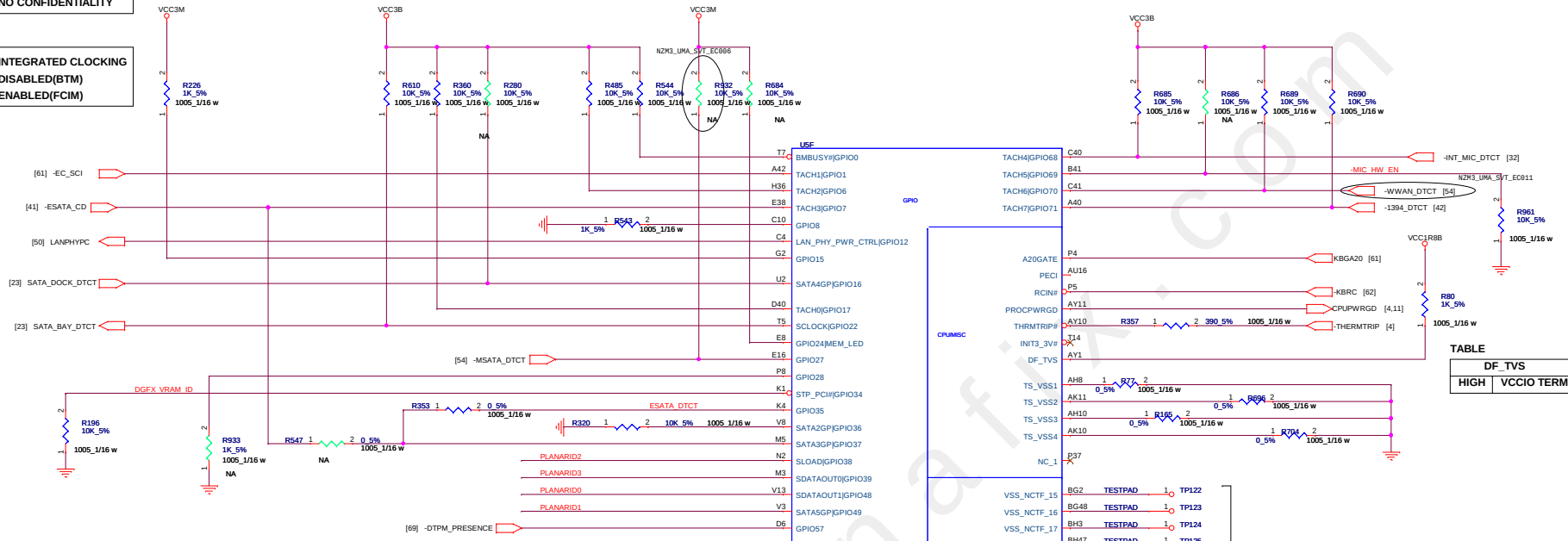
www.chinafix.com

TABLE

GPIO15	ME CRYPTO STRAP
HIGH	WITH CONFIDENTIALITY
LOW	NO CONFIDENTIALITY

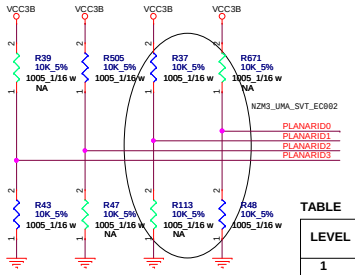
TABLE

GPIO8	INTEGRATED CLOCKING
HIGH	DISABLED(BTM)
LOW	ENABLED(FCIM)



TABLE

DF_TVS	
HIGH	VCCIO TERMINATION



TABLE

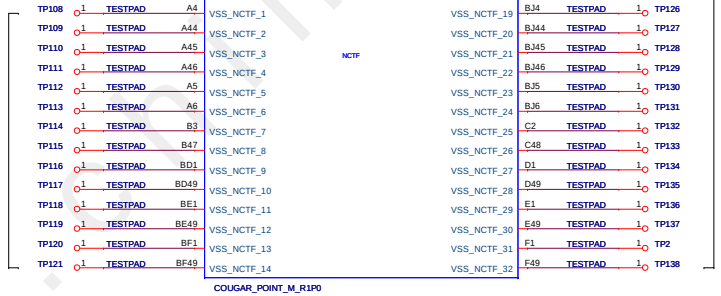
LEVEL	PLANAR ID			
	3	2	1	0
1	R39	R505	R37	R671
0	R43	R47	R113	R48

TABLE

LEVEL	PLANARID[3..0]
PDV	0000B
SDV	0000B/0001B
SDV2	0010B
FVT2	0011B
MSIT	0100B
SIT	0101B
SVT	0110B

NZM3_UMA_SVT_EC002

FOR SOLDER CRACK DETECTION

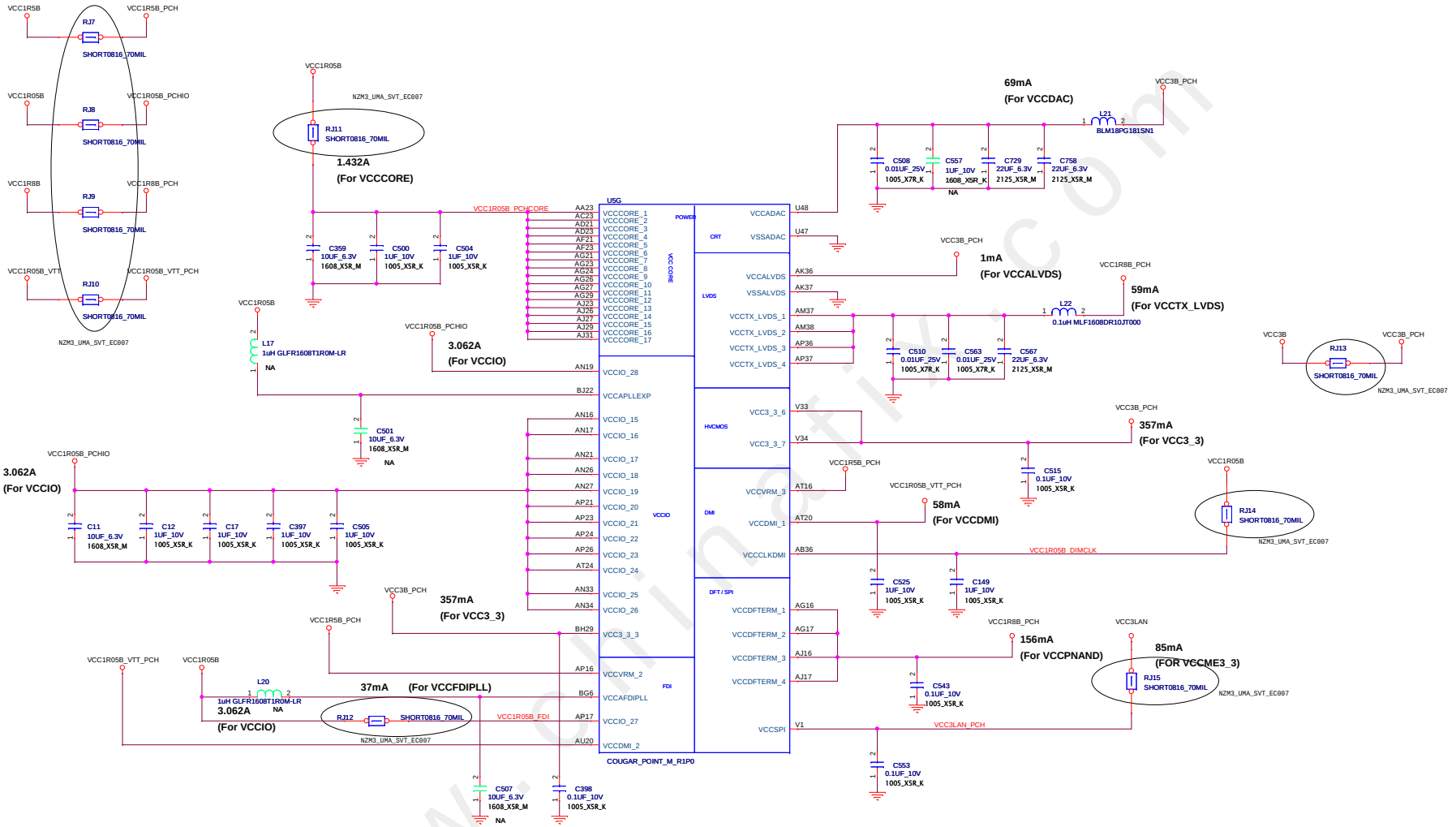


FOR SOLDER CRACK DETECTION

www.chinafix.com

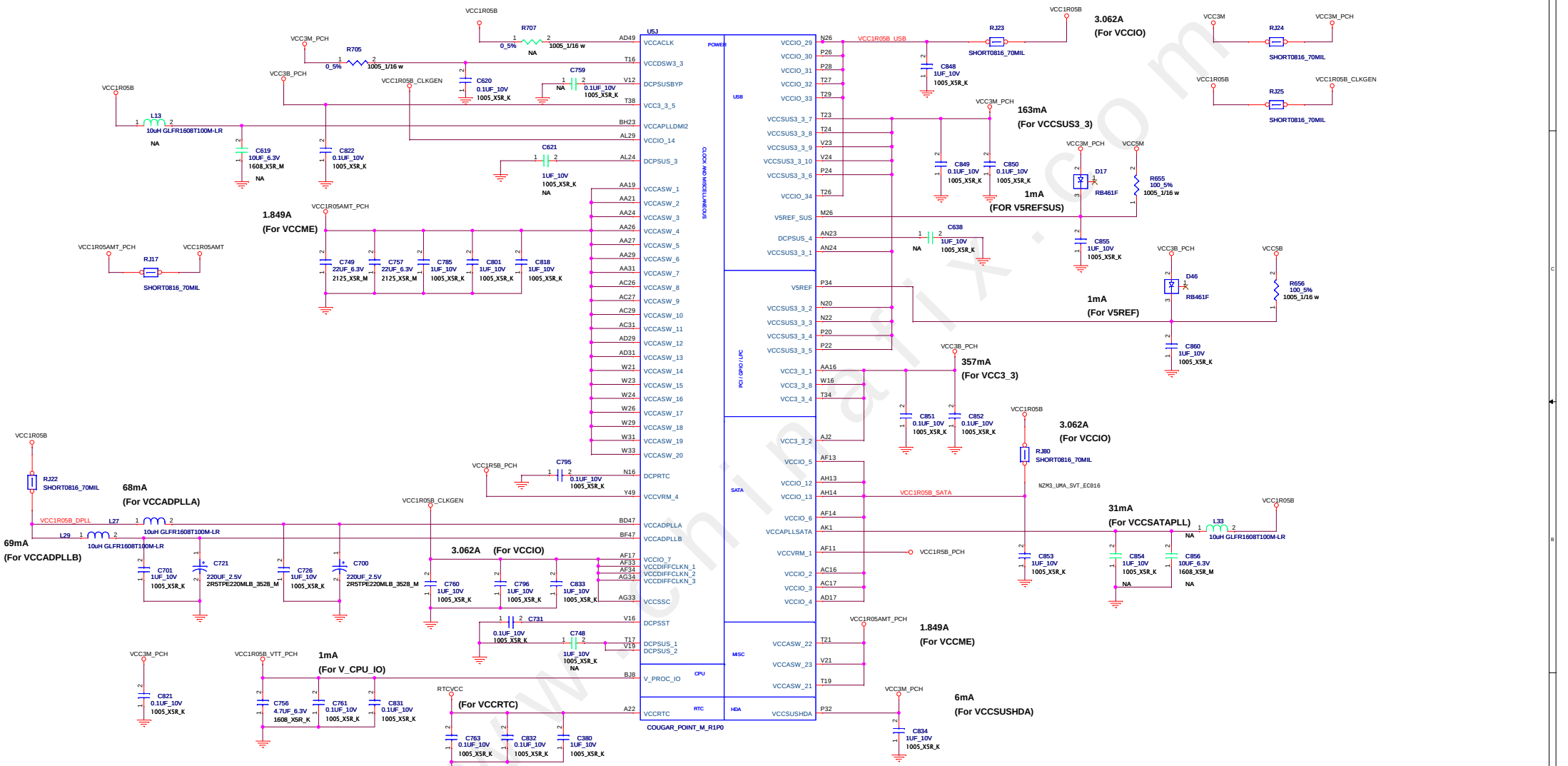
FLEX Computing

Project Name : H430UI1	Title : PCH(6/9):GPIO/NCTF/RSVD	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 28 of 99	

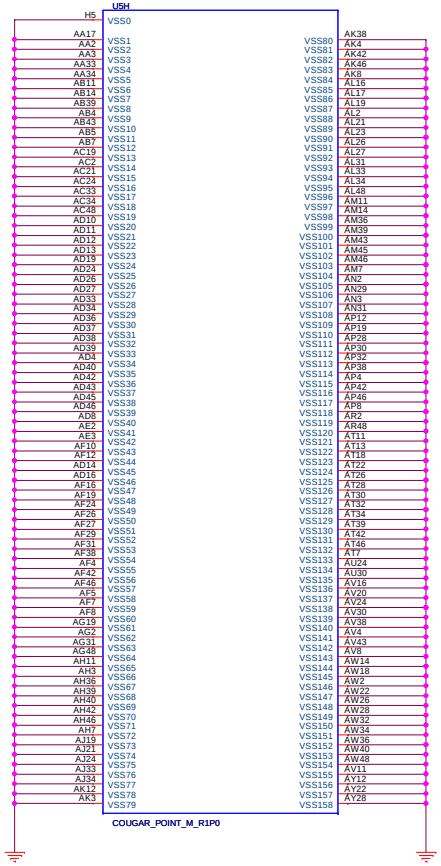


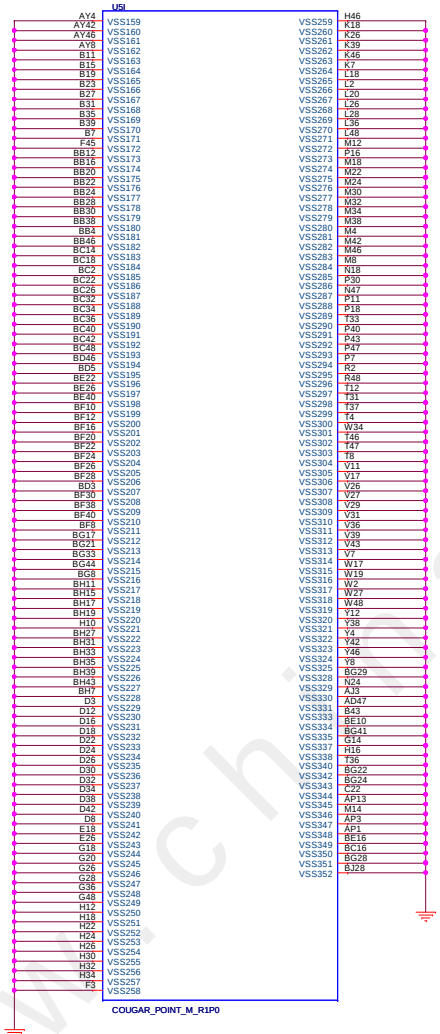
www.chinafix.com

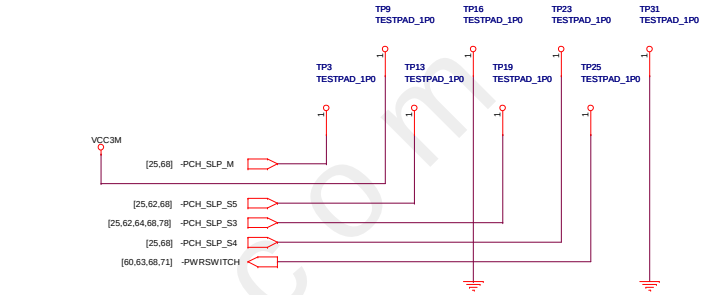
FLEX Computing			
Project Name : H430UI1	Title : PCH(7/9):POWER		
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 29 of 99	

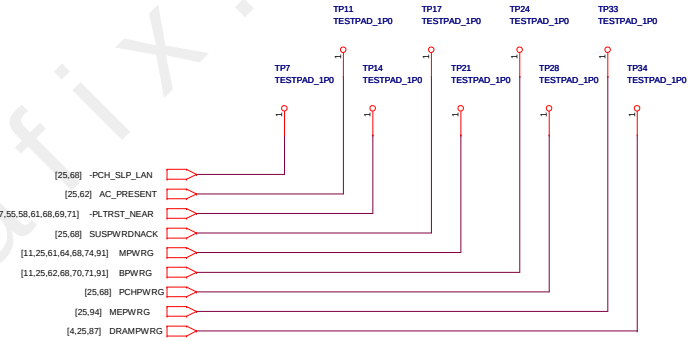

U5J
VCCACLK
VCCDSW3_3
DCPSUSBYP
VCC3_3_5
VCCAPLLDMI2
VCCIO_14
DCPSUS_3
VCCASW_1
VCCASW_2
VCCASW_3
VCCASW_4
VCCASW_5
VCCASW_6
VCCASW_7
VCCASW_8
VCCASW_9
VCCASW_10
VCCASW_11
VCCASW_12
VCCASW_13
VCCASW_14
VCCASW_15
VCCASW_16
VCCASW_17
VCCASW_18
VCCASW_19
VCCASW_20
DCPRTC
VCCVRM_4
VCCADPLLA
VCCADPLLB
VCCIO_7
VCCDIFFCLKN_1
VCCDIFFCLKN_2
VCCDIFFCLKN_3
VCCSSC
DCPSST
DCPSUS_1
DCPSUS_2
V_PROC_IO
VCCRTC
POWER
USB
CLOCK AND MISCELLANEOUS
SATA
MISC
CPU
RTC
HDA
COUGAR_POINT_M_R1P0
VCCIO_29
VCCIO_30
VCCIO_31
VCCIO_32
VCCIO_33
VCCSUS3_3_7
VCCSUS3_3_8
VCCSUS3_3_9
VCCSUS3_3_10
VCCSUS3_3_6
VCCIO_34
V5REF_SUS
DCPSUS_4
VCCSUS3_3_1
V5REF
VCCSUS3_3_2
VCCSUS3_3_3
VCCSUS3_3_4
VCCSUS3_3_5
VCC3_3_1
VCC3_3_8
VCC3_3_4
VCC3_3_2
VCCIO_5
VCCIO_12
VCCIO_13
VCCIO_6
VCCAPLLSATA
VCCVRM_1
VCCIO_2
VCCIO_3
VCCIO_4
VCCASW_22
VCCASW_23
VCCASW_21
VCCSUSHDA
VCC1R05B_USB
VCC1R05B_SATA
VCC1R5B_PCH
VCC1R05AMT_PCH
VCC3M_PCH
VCC3B_PCH
VCC1R05B_CLKGEN
VCC1R05B_VTT_PCH
VCC1R05B_DPLL
RTCVCC
VCC1R05B
VCC1R05AMT
VCC5M
R707
R705
C620
C759
C621
C619
C822
C749
C757
C785
C801
C818
C795
C701
C721
C726
C700
C760
C796
C833
C731
C748
C821
C756
C761
C831
C763
C832
C380
L13
L27
L29
L33
RJ17
RJ22
RJ23
RJ24
RJ25
RJ80
C848
C849
C850
C638
C851
C852
C853
C854
C855
C856
C860
C834
D17
D46
R655
R656
SHORT0816_70MIL
RB461F
NZM3_UMA_SVT_EC016
1.849A
(For VCCME)
68mA
(For VCCADPLLA)
69mA
(For VCCADPLLB)
3.062A
(For VCCIO)
1mA
(For V_CPU_IO)
(For VCCRTC)
163mA
(For VCCSUS3_3)
1mA
(FOR V5REFSUS)
1mA
(For V5REF)
357mA
(For VCC3_3)
31mA
(For VCCSATAPLL)
6mA
(For VCCSUSHDA)
FLEXComputing
Project Name : H430UI1
Title : PCH(8/9):POWER
Size : C
Document Number : LNVH-40GAB5700-F100
Rev : F
Date: Monday, December 13, 2010
Sheet : 30 of 99

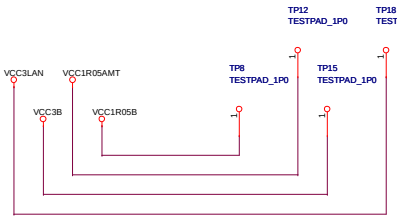
TEST PAD FOR METS/APS







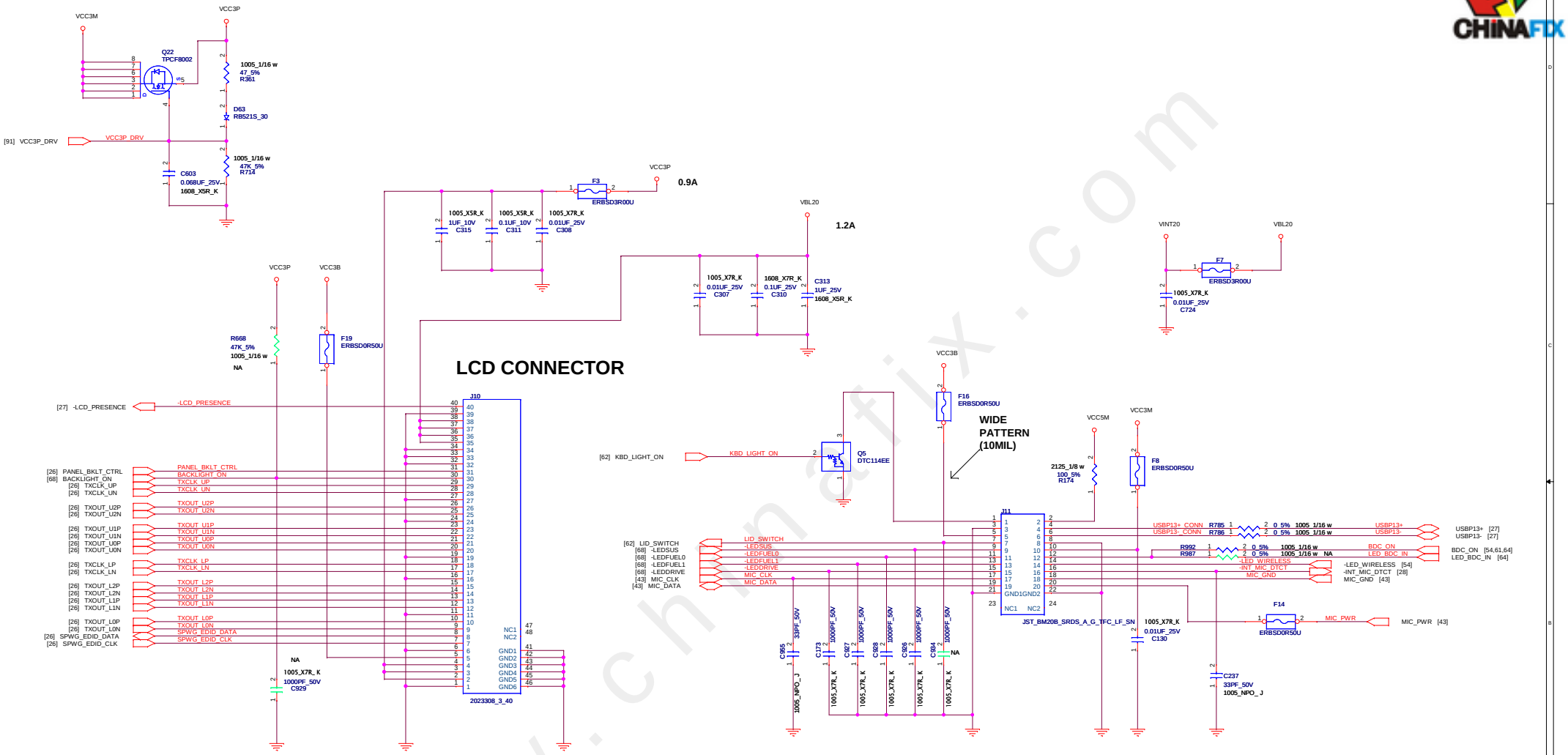




www.chinafix.com

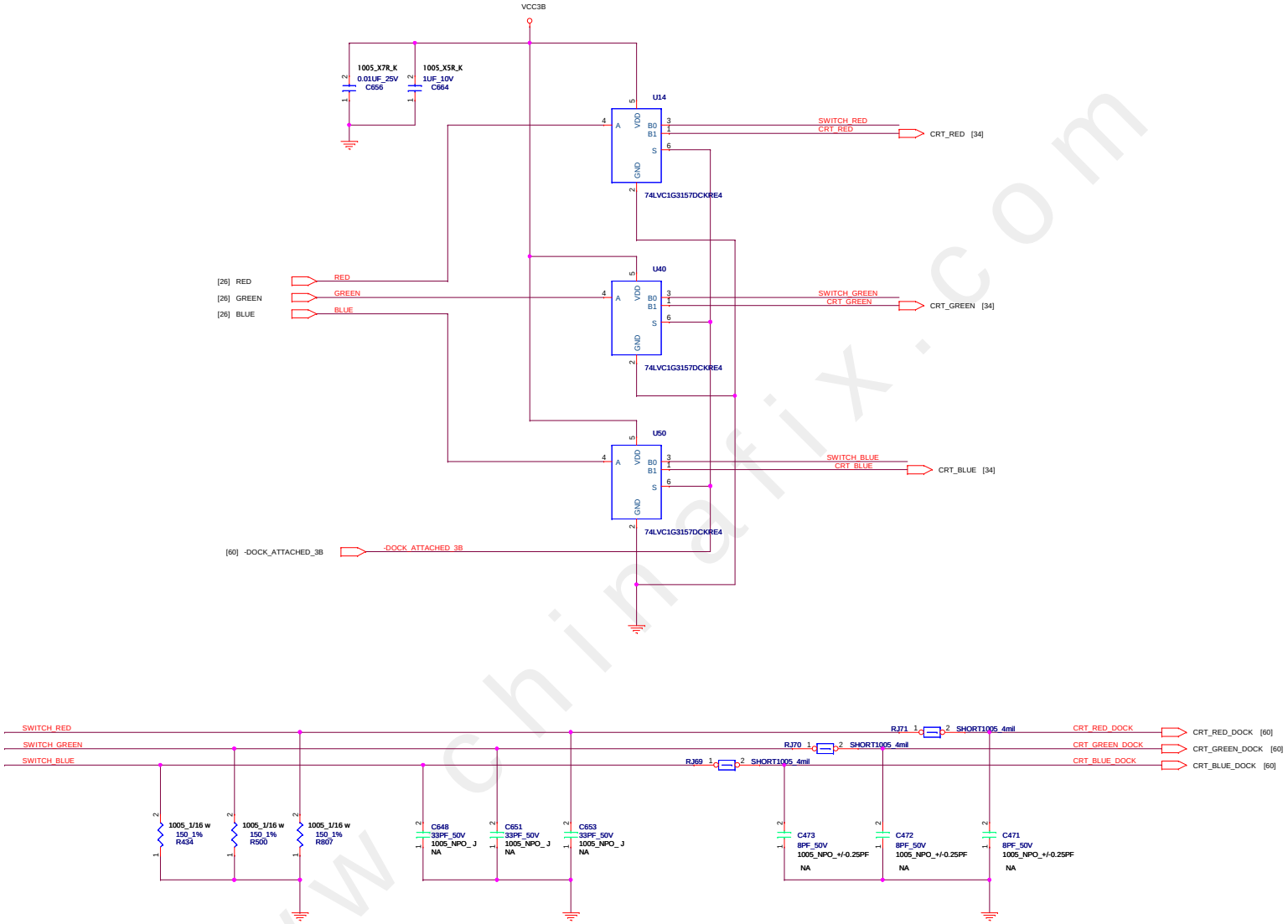
FLEX Computing

Project Name : H430UI1	Title : PCH(9/9):GND
Size : C	Document Number : LNVH-40GAB5700-F100
Rev : F	
Date: Monday, December 13, 2010	Sheet : 31 of 99



www.chinafix.com

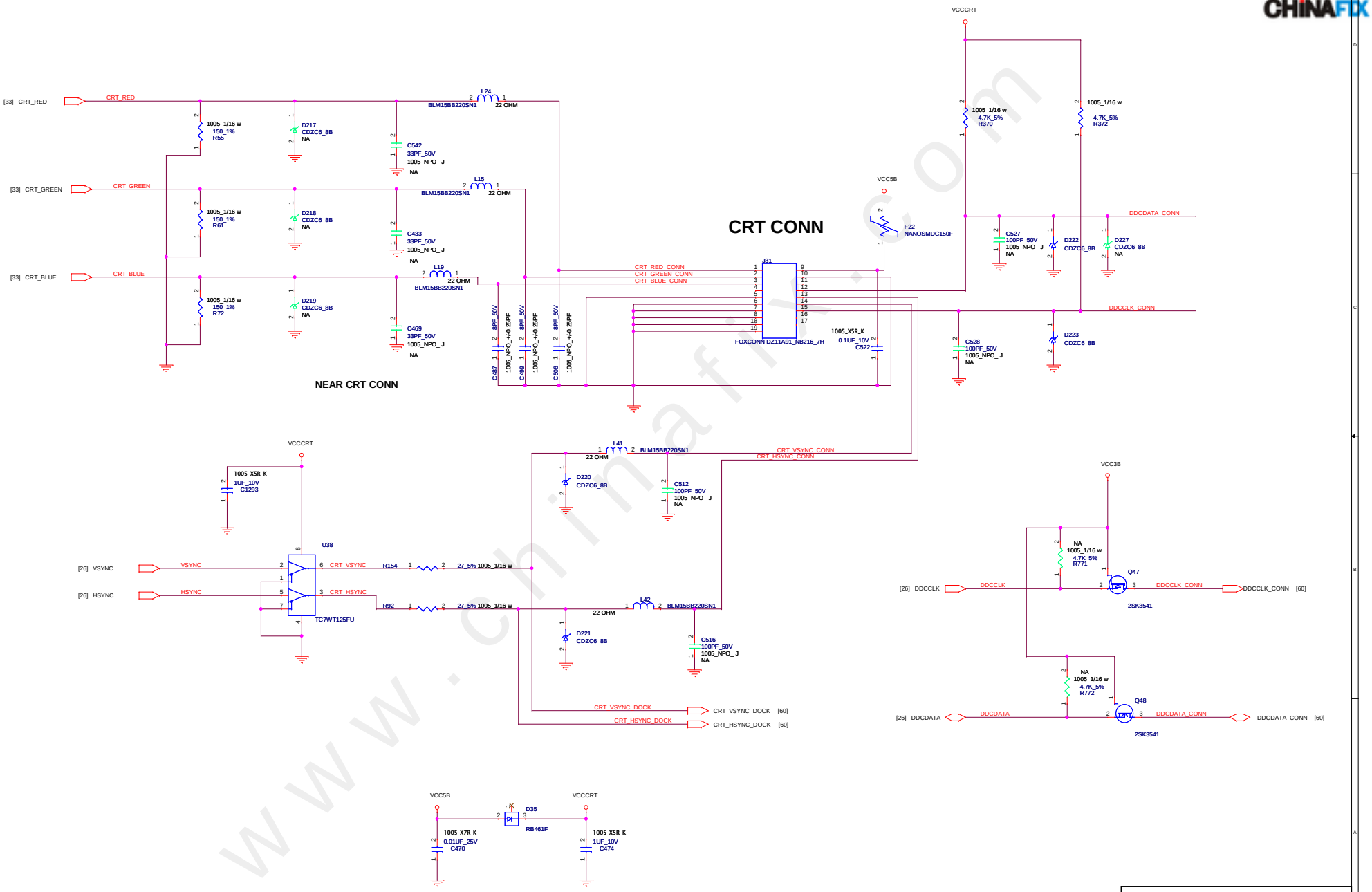
FLEXComputing			
Project Name : H430UI1	Title : LCD CONNECTOR		
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 32 of 99	



www.chinafix.com

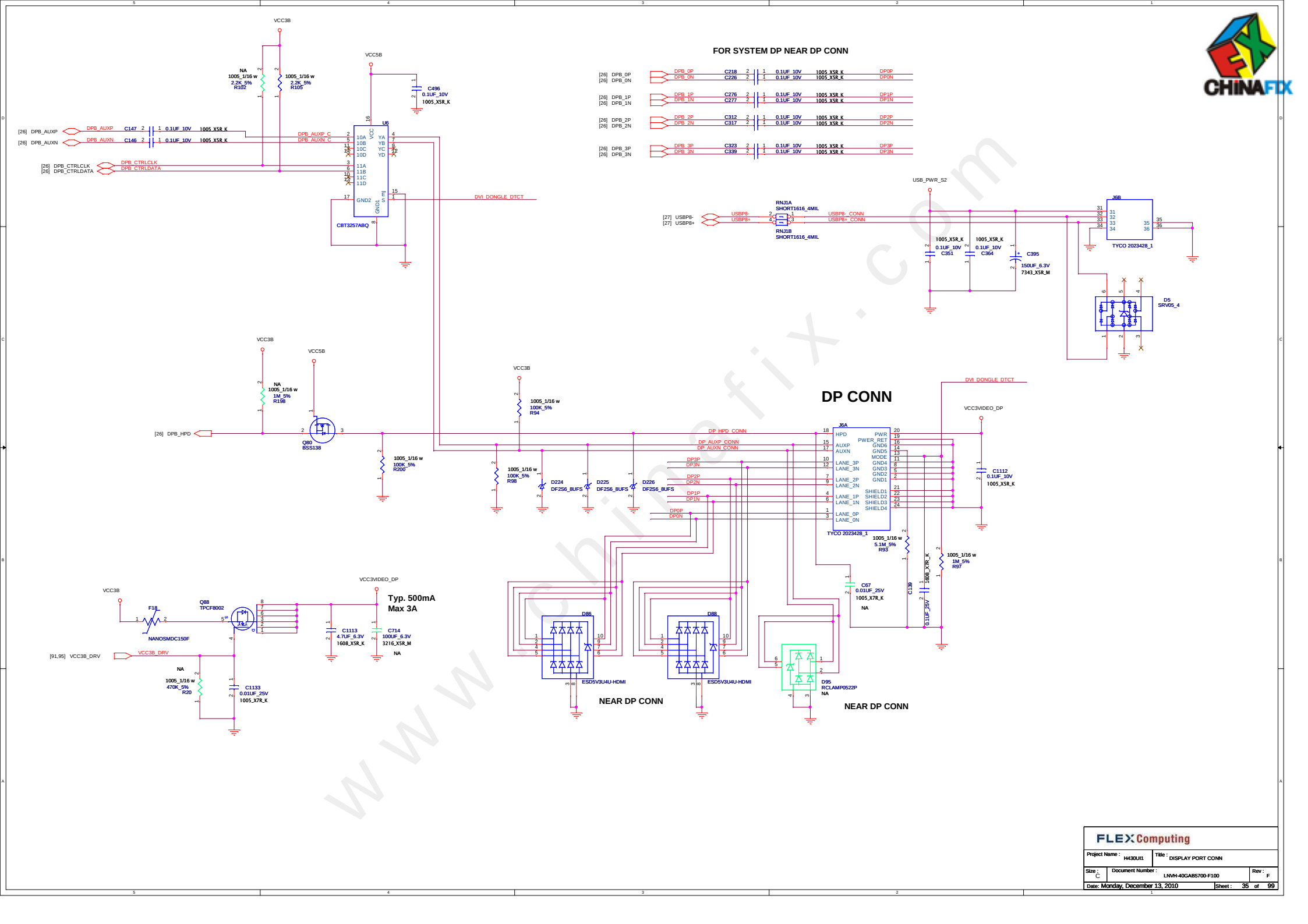
FLEX Computing

Project Name : H430UI1	Title : RGB SWITCH	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 33 of 99	

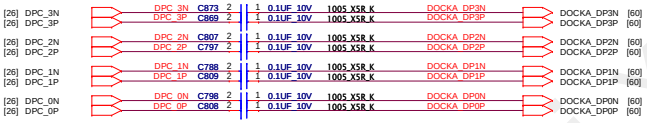


www.chinafix.com

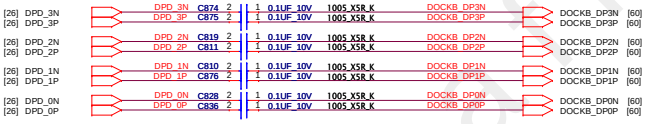
FLEX Computing	
Project Name : H430UI1	Title : EXT CRT I/F
Size : C	Document Number : LNVH-40GAB5700-F100
Rev : F	
Date: Monday, December 13, 2010	Sheet : 34 of 99


FOR SYSTEM DP NEAR DP CONN
DP CONN
NEAR DP CONN
NEAR DP CONN
Typ. 500mA
Max 3A
U6
CBT3257ABQ
J6A
J6B
TYCO 2023428_1
Q80
BSS138
Q88
TPCF8002
D224
D225
D226
DF2S6_8UFS
D86
D88
ESD5V3U4U-HDMI
D95
RCLAMP0522P
D5
SRV05_4
RNJ1A
RNJ1B
SHORT1616_4MIL
F18
NANOSMDC150F
DVI_DONGLE_DTCT
VCC3VIDEO_DP
VCC3B_DRV
DP_HPD_CONN
DP_AUXP_CONN
DP_AUXN_CONN
FLEXComputing
Project Name : H430UI1
Title : DISPLAY PORT CONN
Size : C
Document Number : LNVH-40GAB5700-F100
Rev : F
Date: Monday, December 13, 2010
Sheet : 35 of 99

NEAR DOCK CONN



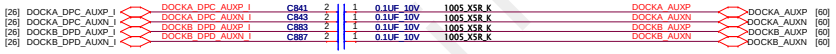
NEAR DOCK CONN



www.chinafix.com

FLEX Computing

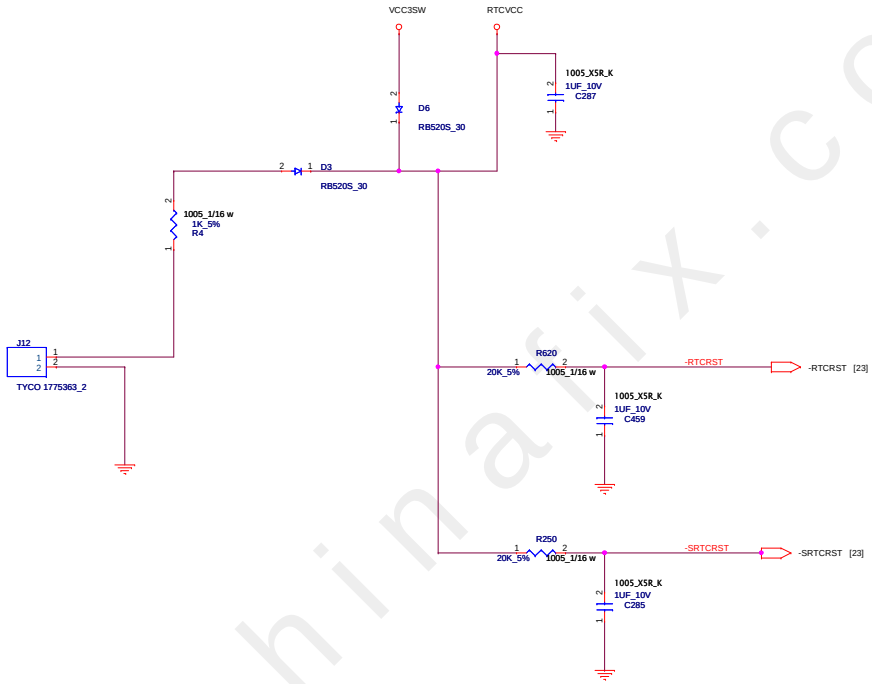
Project Name : H430UI1	Title : DOCK DISPLAY PORT	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 36 of 99	



www.chinafix.com

FLEX Computing

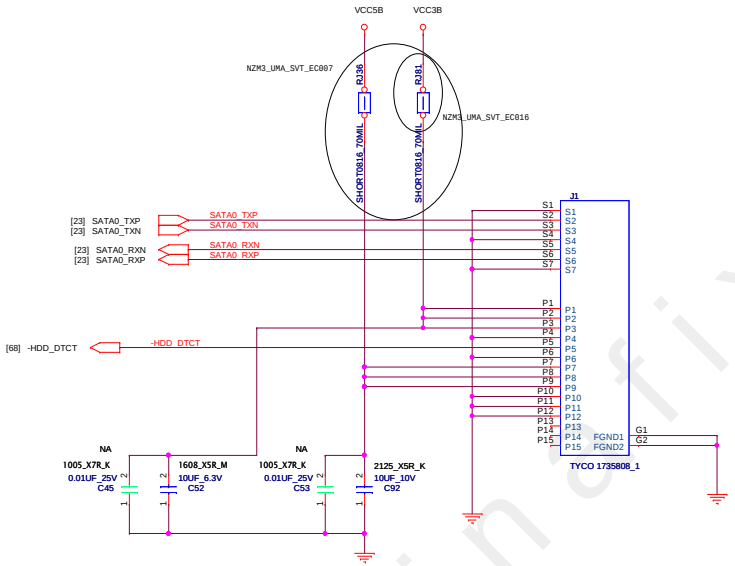
Project Name : H430UI1	Title : DISPLAY PORT MUX		
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F	
Date: Monday, December 13, 2010	Sheet : 37 of 99		



www.chinafix.com

FLEX Computing

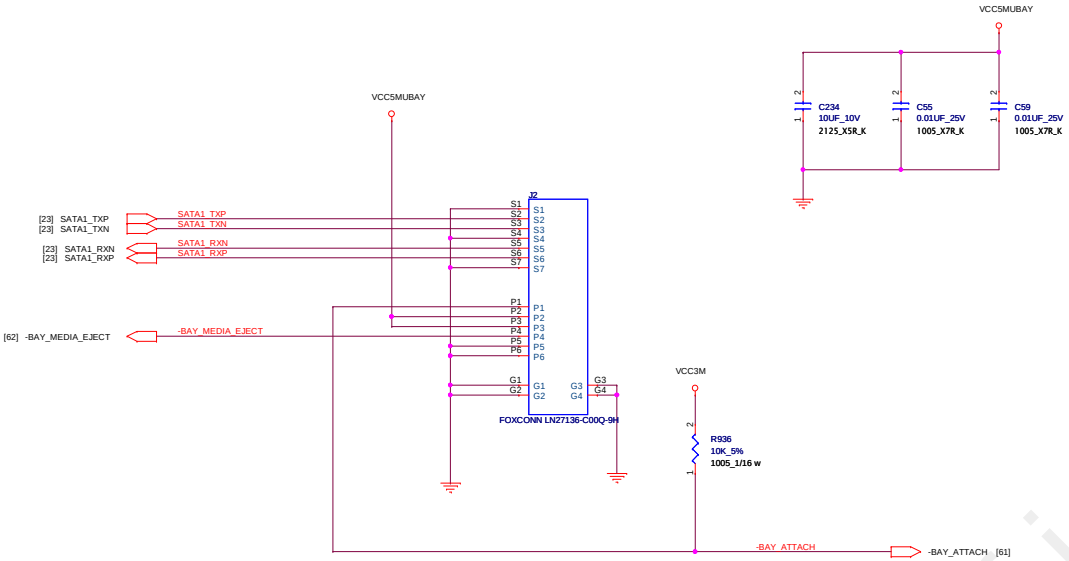
Project Name : H430UI1	Title : RTC BATTERY	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 38 of 99	



www.chinafix.com

FLEX Computing

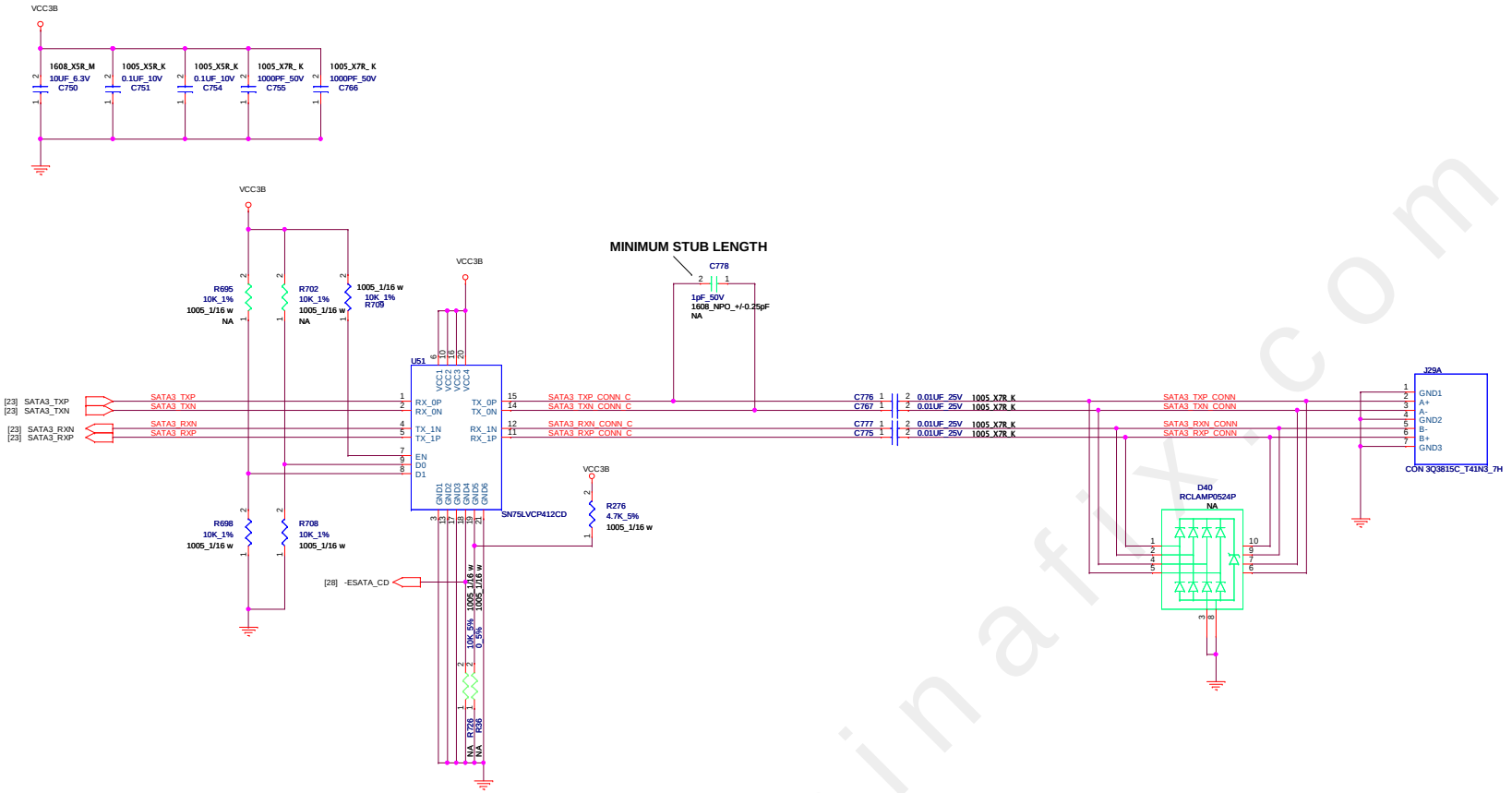
Project Name : H430UI1	Title : SATA HDD CONN	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 39 of 99	



www.chinafix.com

FLEX Computing

Project Name : H430UI1	Title : SATA BAY I/F CONN	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 40 of 99	



TABLE

ESATA REDRIVER CHANNEL BOOST ENABLE OPTION

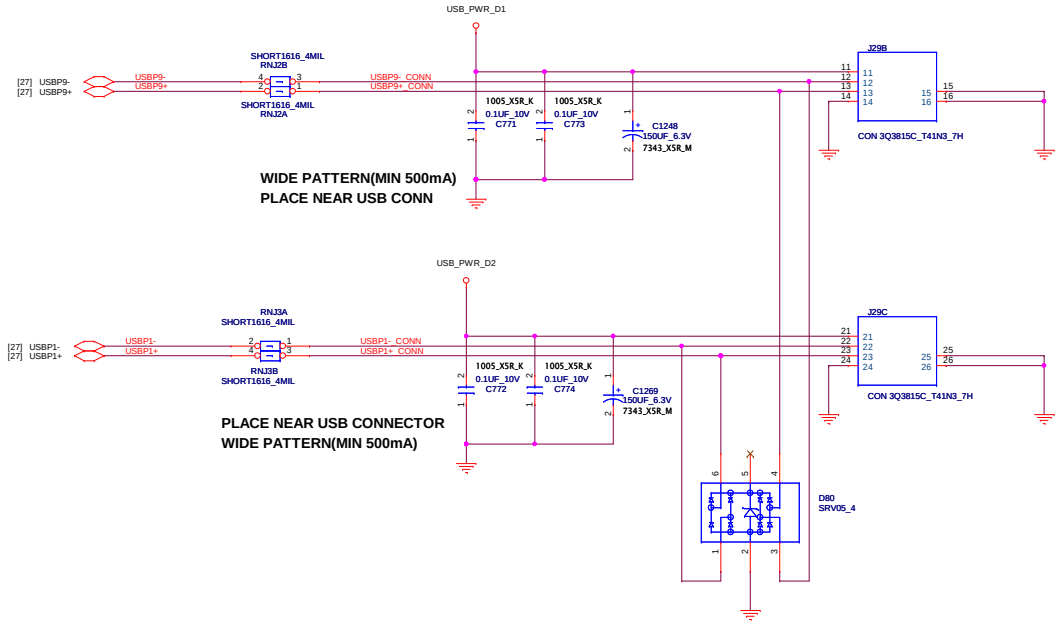
EN	D0	D1	CH-0	CH-1
0	X	X	STANDBY	STANDBY
1	0	0	STANDARD	STANDARD
1	1	0	BOOST	STANDARD
1	0	1	STANDARD	BOOST
1	1	1	BOOST	BOOST

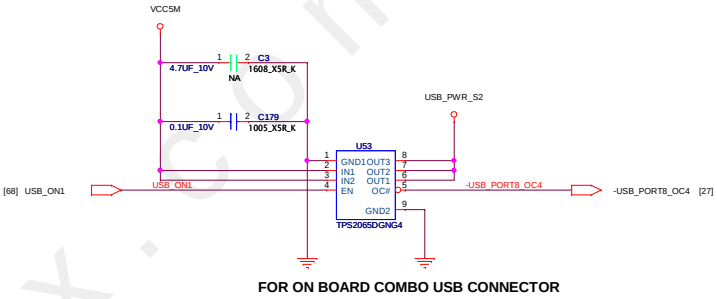
← LOGIC

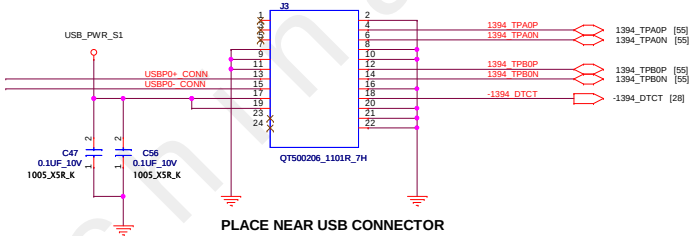
www.chinafix.com

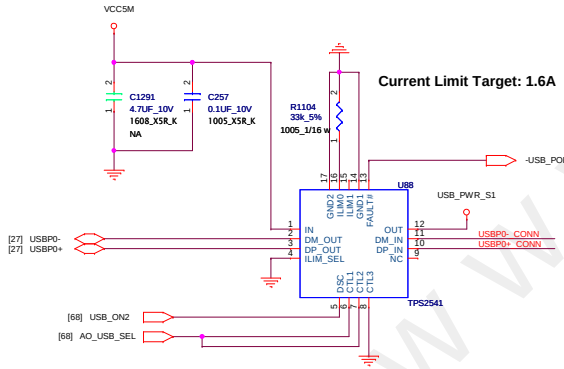
FLEX Computing

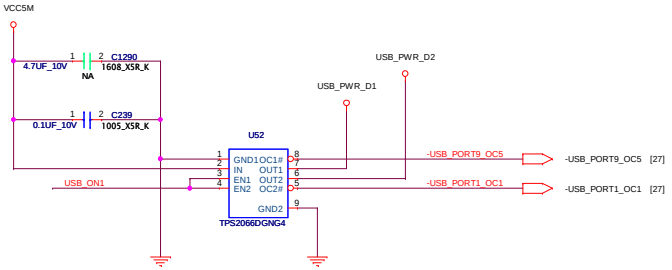
Project Name : H430UI1	Title : ESATA CONN		
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F	
Date: Monday, December 13, 2010	Sheet : 41 of 99		











FLEXComputing

Project Name : H430UI1	Title : USB POWER/CONN	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 42 of 99	

www.chinafix.com

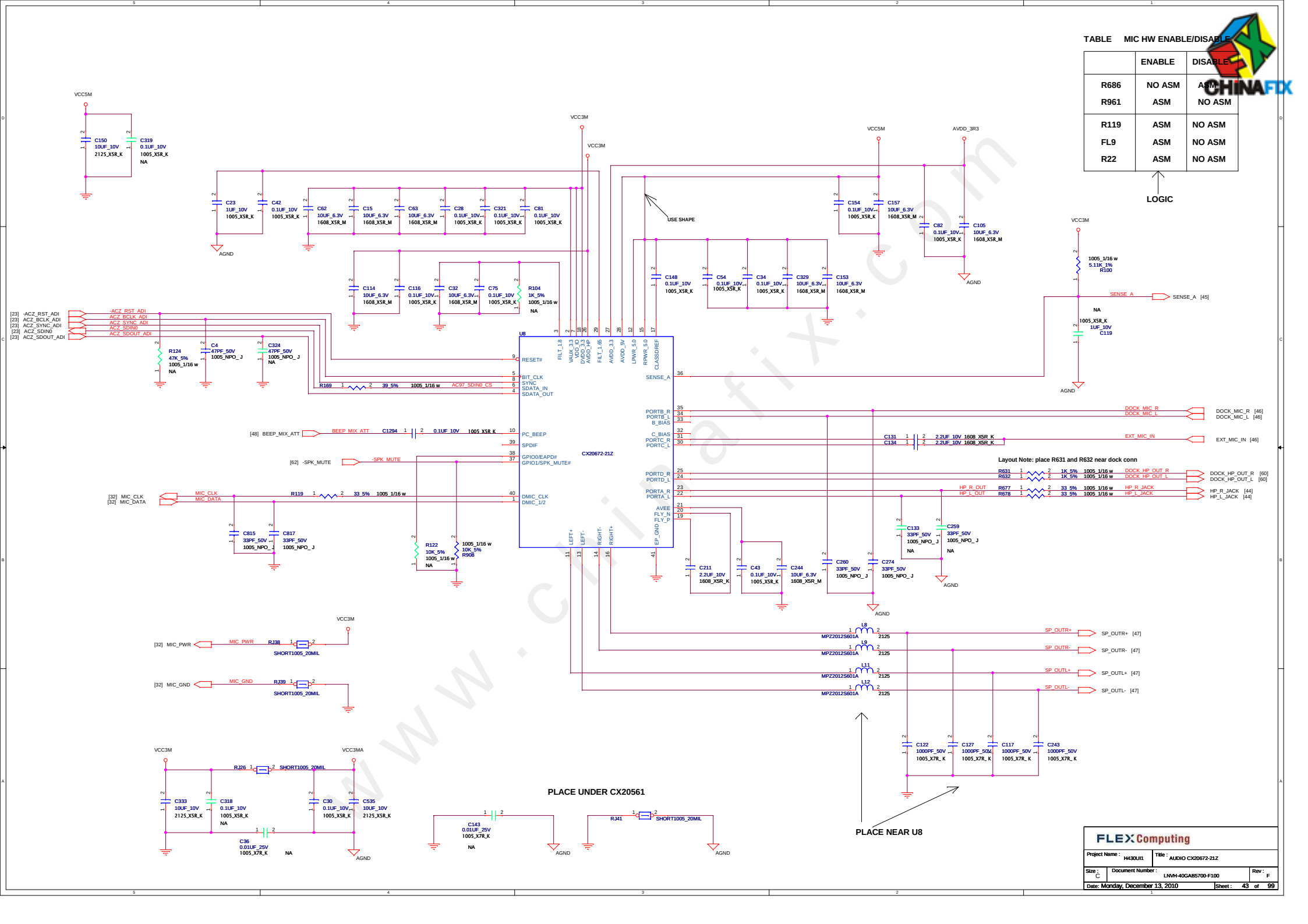
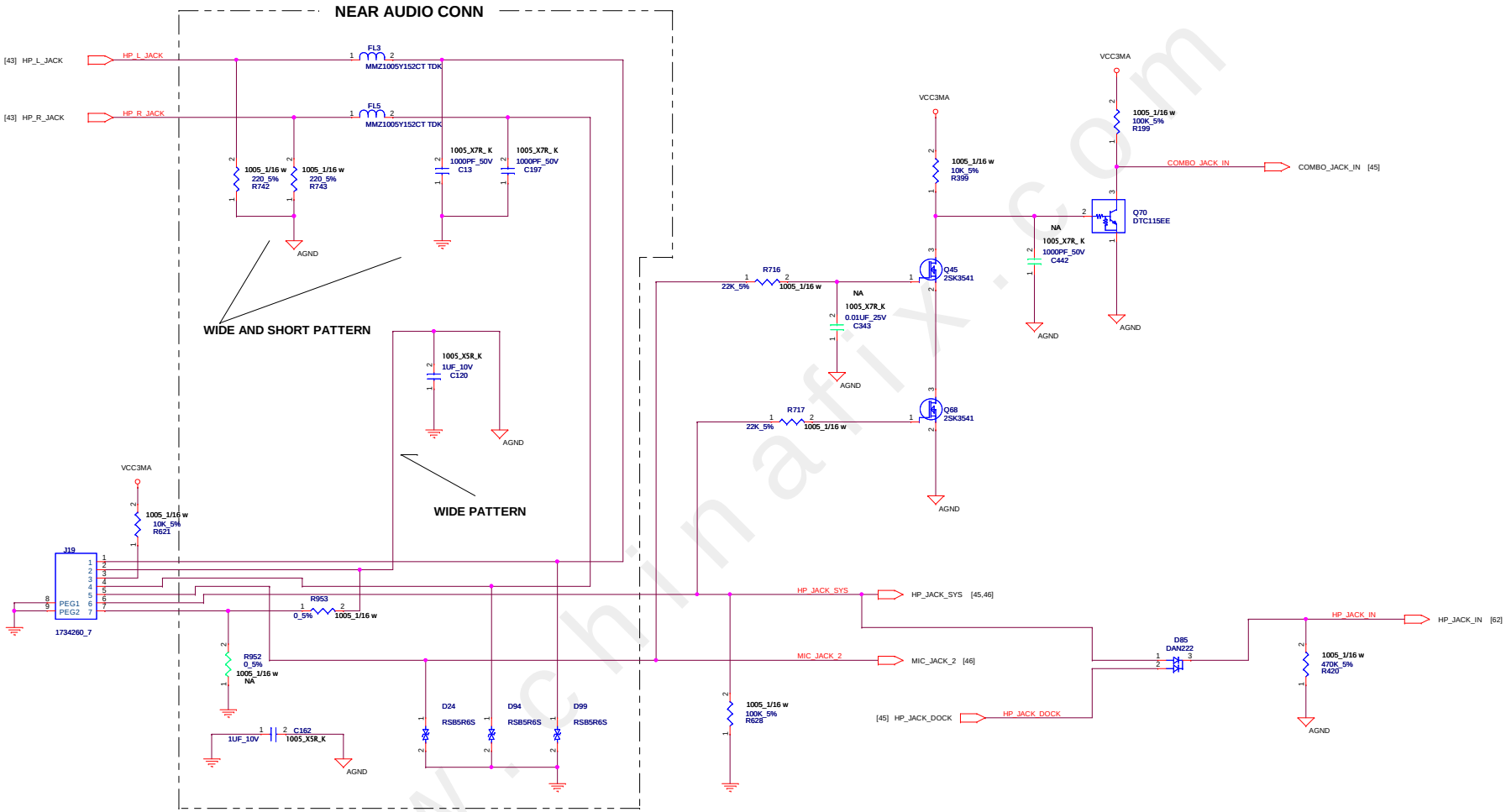
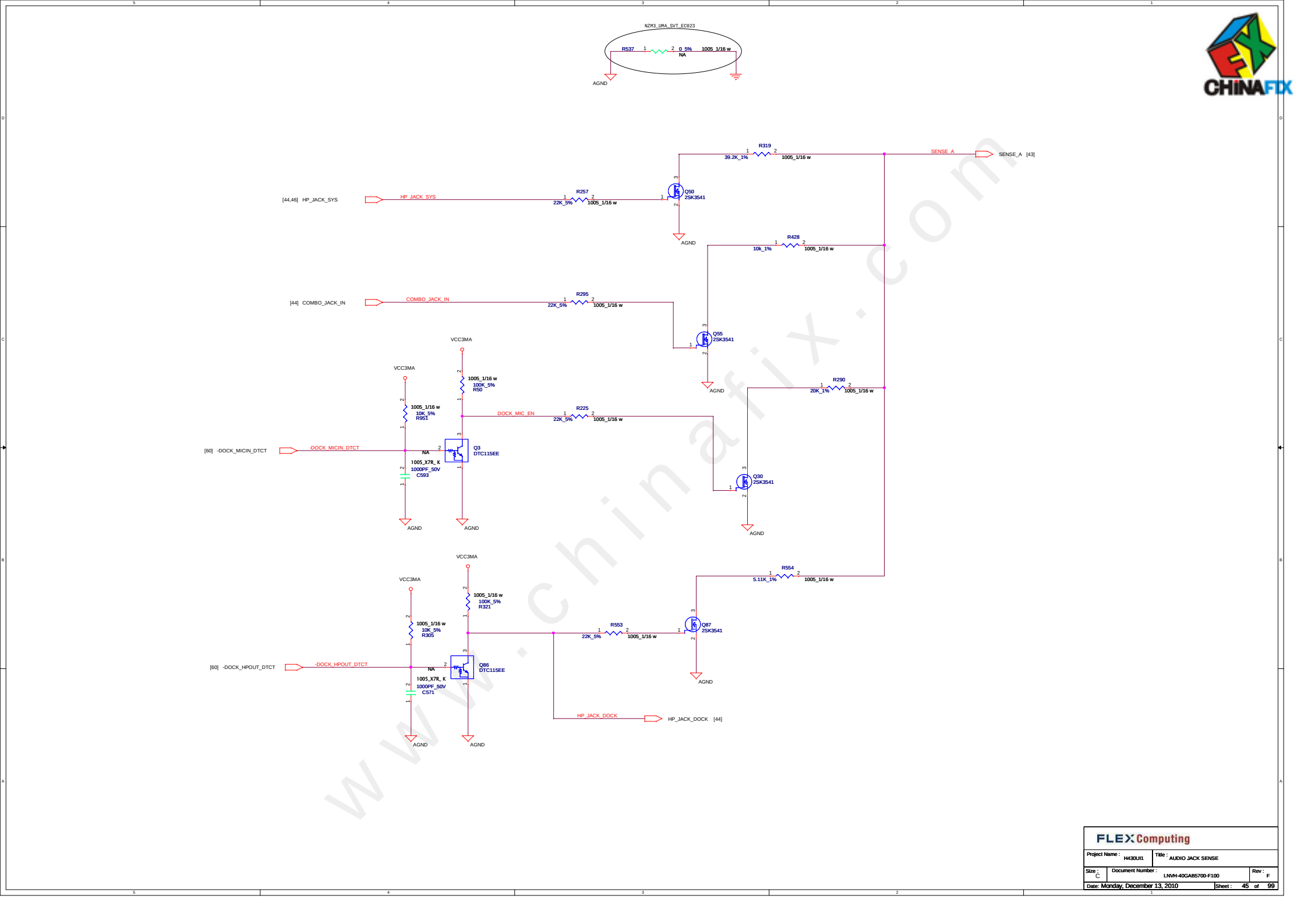


TABLE MIC HW ENABLE/DISABLE
ENABLE
DISABLE
R686 NO ASM ASM
R961 ASM NO ASM
R119 ASM NO ASM
FL9 ASM NO ASM
R22 ASM NO ASM
LOGIC
CX20672-21Z
PLACE UNDER CX20561
PLACE NEAR U8
Layout Note: place R631 and R632 near dock conn
FLEX Computing
Project Name : H430UI1
Title : AUDIO CX20672-21Z
Size : C
Document Number : LNVH-40GAB5700-F100
Rev : F
Date: Monday, December 13, 2010
Sheet : 43 of 99



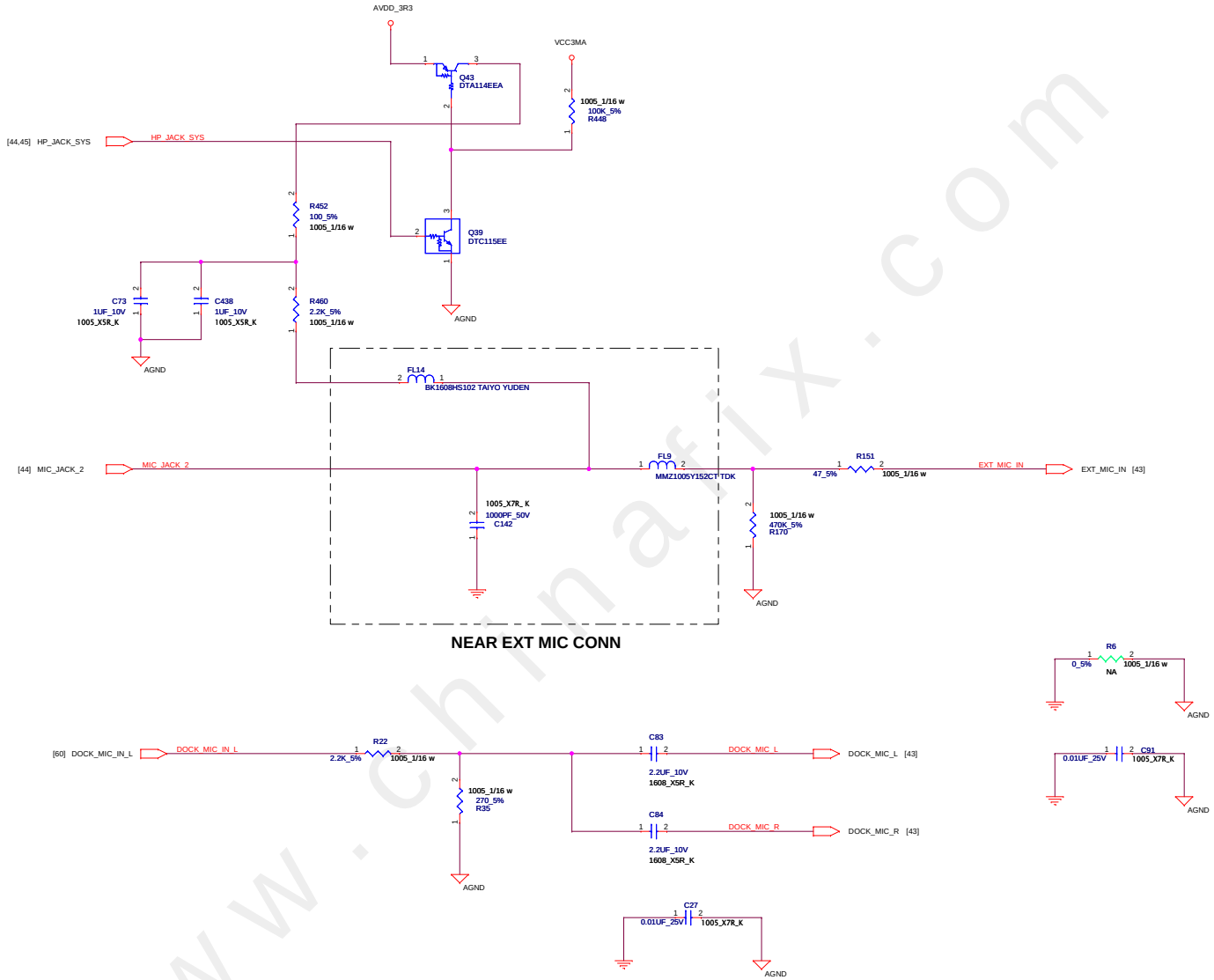
www.chinafix.com

FLEXComputing			
Project Name : H430UI1	Title : AUDIO CONN		
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 44 of 99	



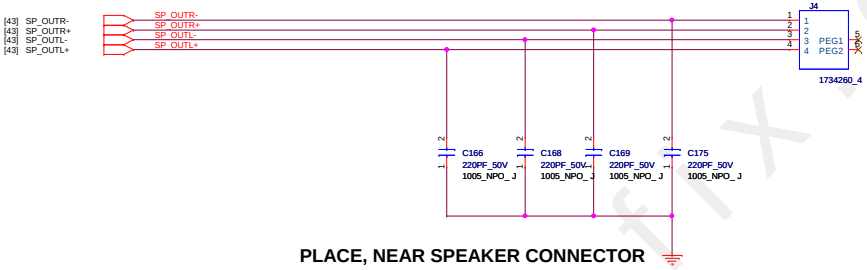
www.chinafix.com

FLEXComputing			
Project Name : H430UI1	Title : AUDIO JACK SENSE		
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 45 of 99	



www.chinafix.com

FLEXComputing			
Project Name : H430UI1	Title : AUDIO EXT MIC I/F		
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 46 of 99	

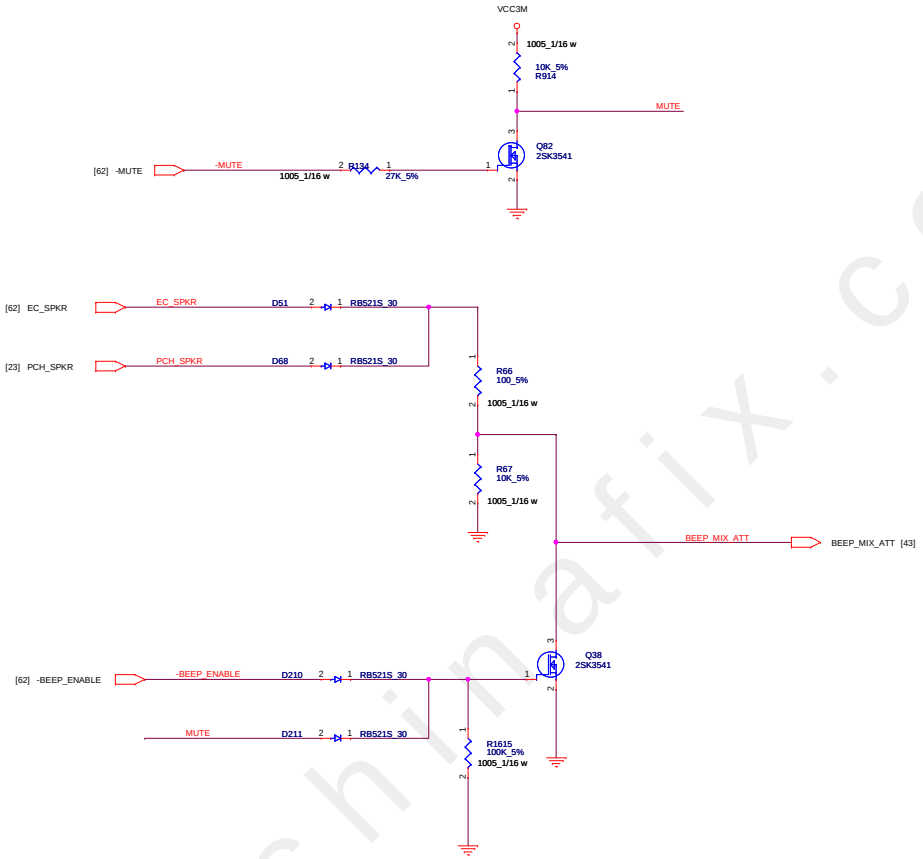


PLACE, NEAR SPEAKER CONNECTOR

www.chinafix.com

FLEX Computing

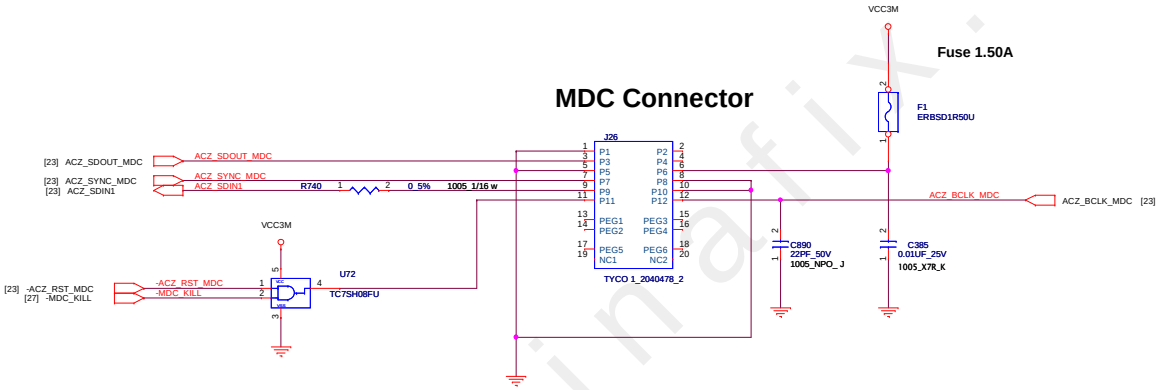
Project Name : H430UI1	Title : AUDIO SPEAKER	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 47 of 99	



www.chinafix.com

FLEX Computing

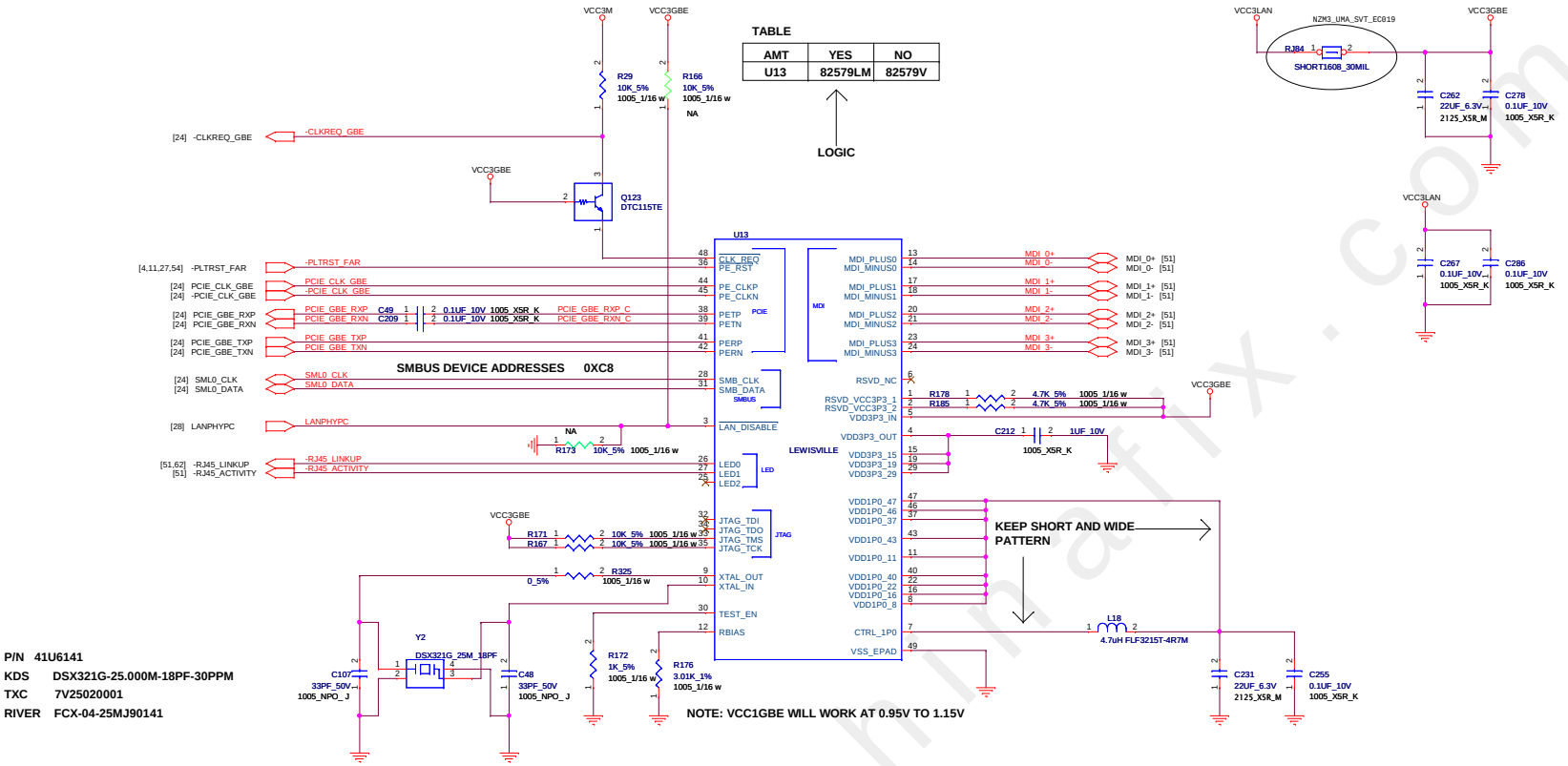
Project Name : H430UI1	Title : AUDIO BEEP	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 48 of 99	



www.chinafix.com

FLEX Computing

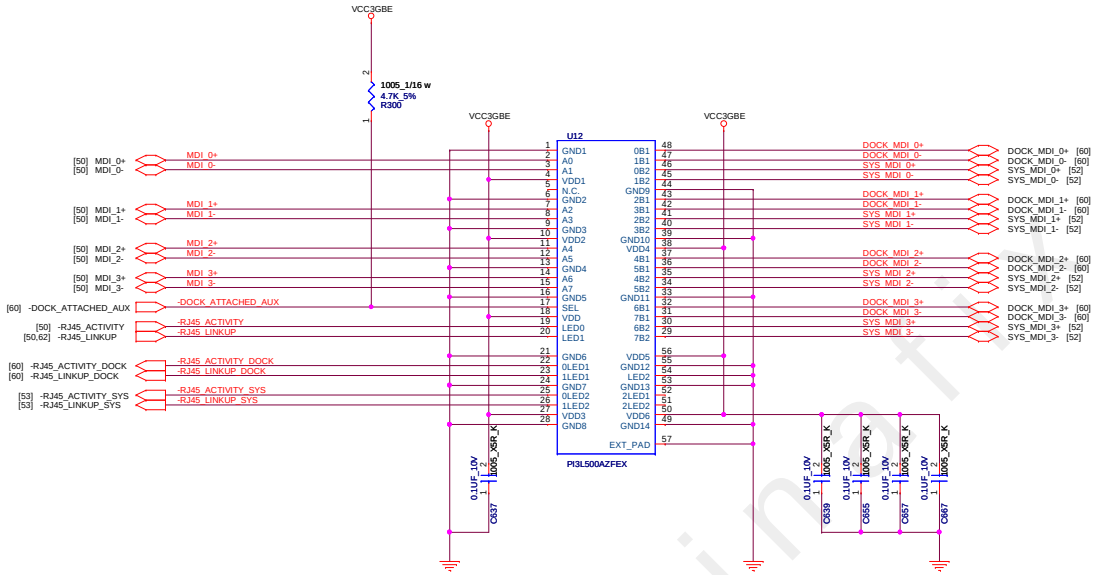
Project Name : H430UI1	Title : MDC CONN	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 49 of 99	



P/N 41U6141
KDS DSX321G-25.000M-18PF-30PPM
TXC 7V25020001
RIVER FCX-04-25MJ90141

www.chinafix.com

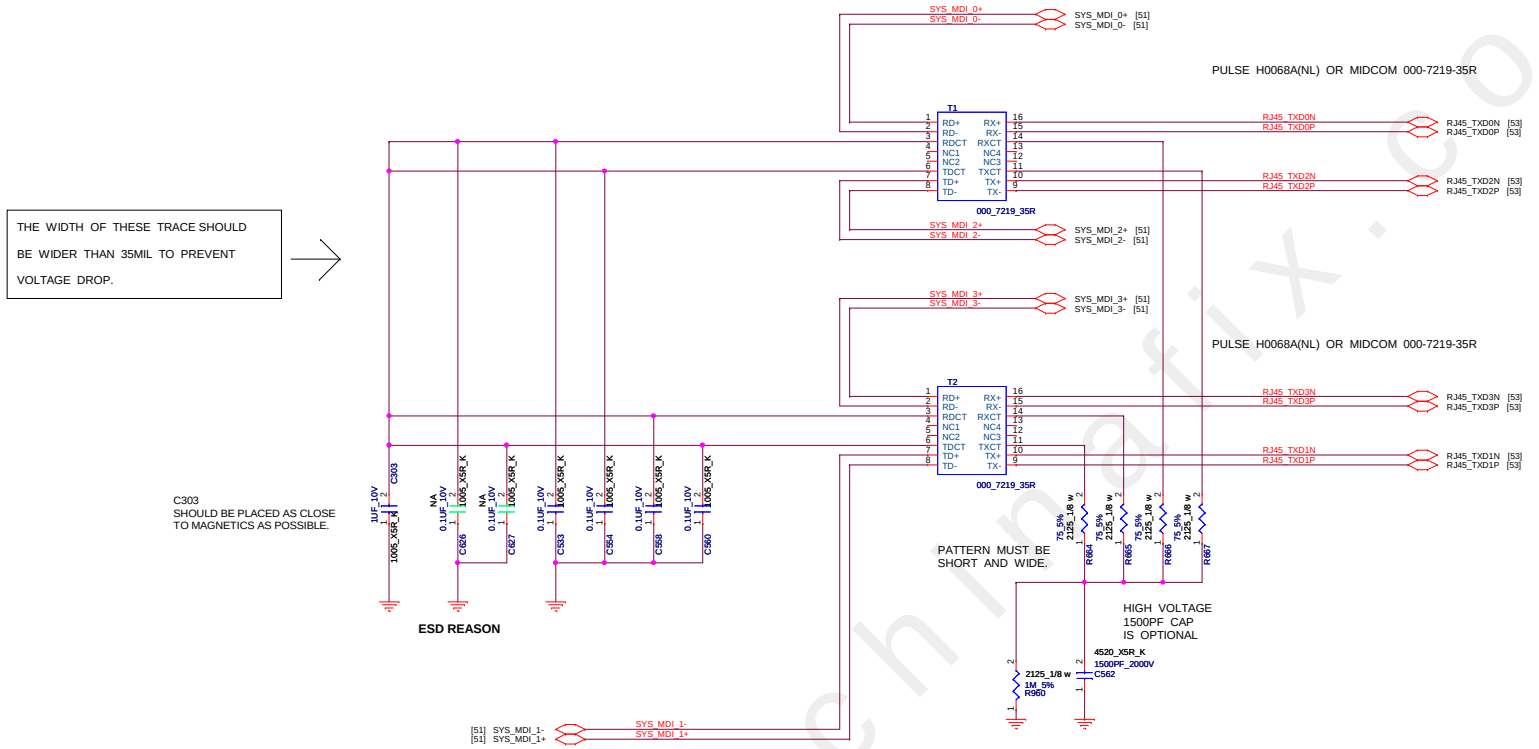
Project Name : H430UI1	Title : GBE LEWISVILLE		
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F	
Date: Monday, December 13, 2010	Sheet : 50 of 99		



www.chinafix.com

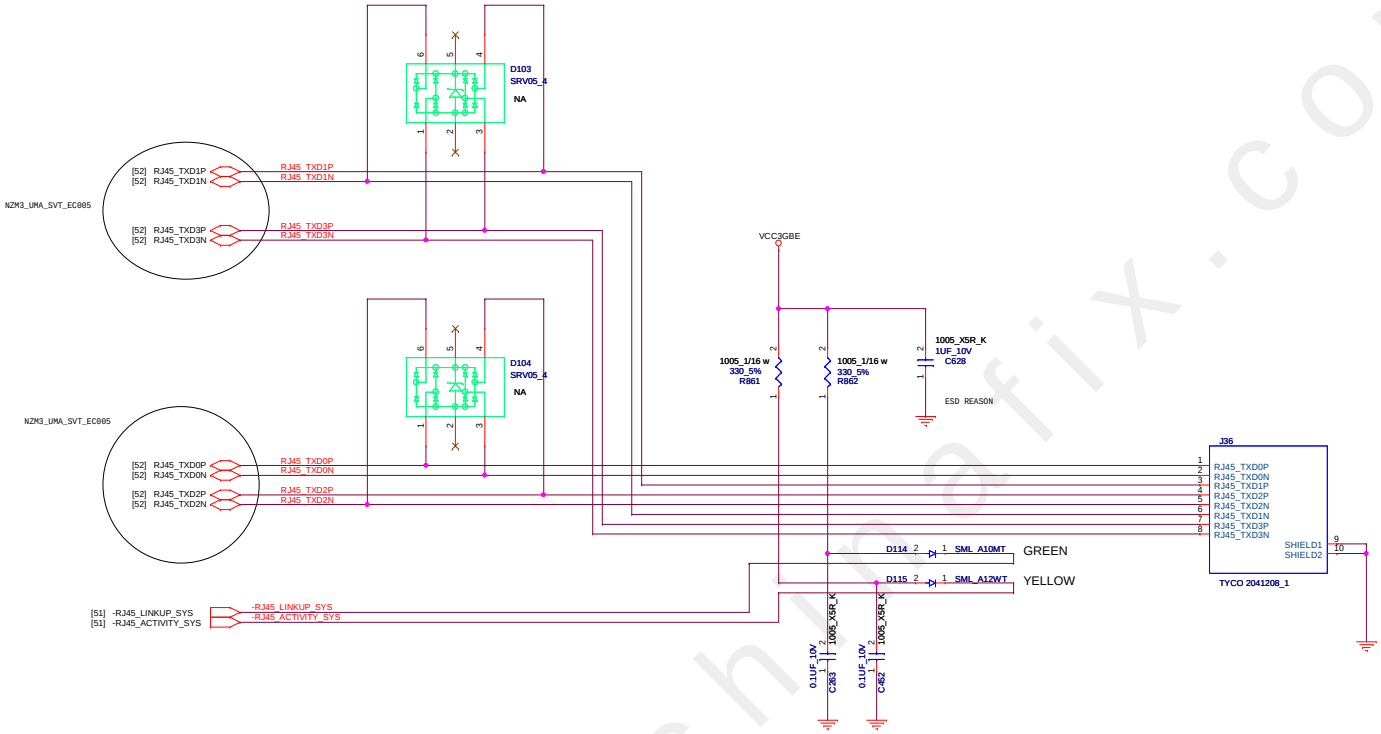
FLEX Computing

Project Name : H430UI1	Title : GBE LAN SWITCH		
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 51 of 99	



www.chinafix.com

FLEX Computing			
Project Name : H430UI1	Title : GBE MAGNETICS		
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 52 of 99	



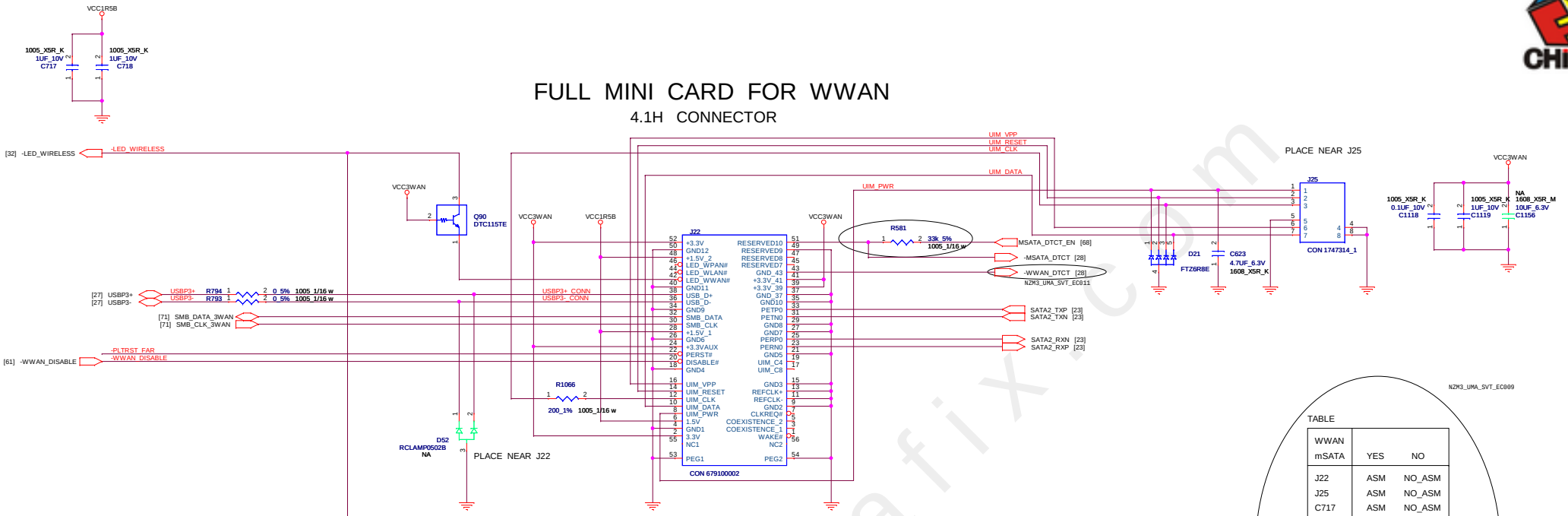
www.chinafix.com

FLEX Computing

Project Name : H430UI1	Title : RJ45 CONNECTOR		
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F	
Date: Monday, December 13, 2010	Sheet : 53 of 99		

FULL MINI CARD FOR WWAN

4.1H CONNECTOR



TABLE

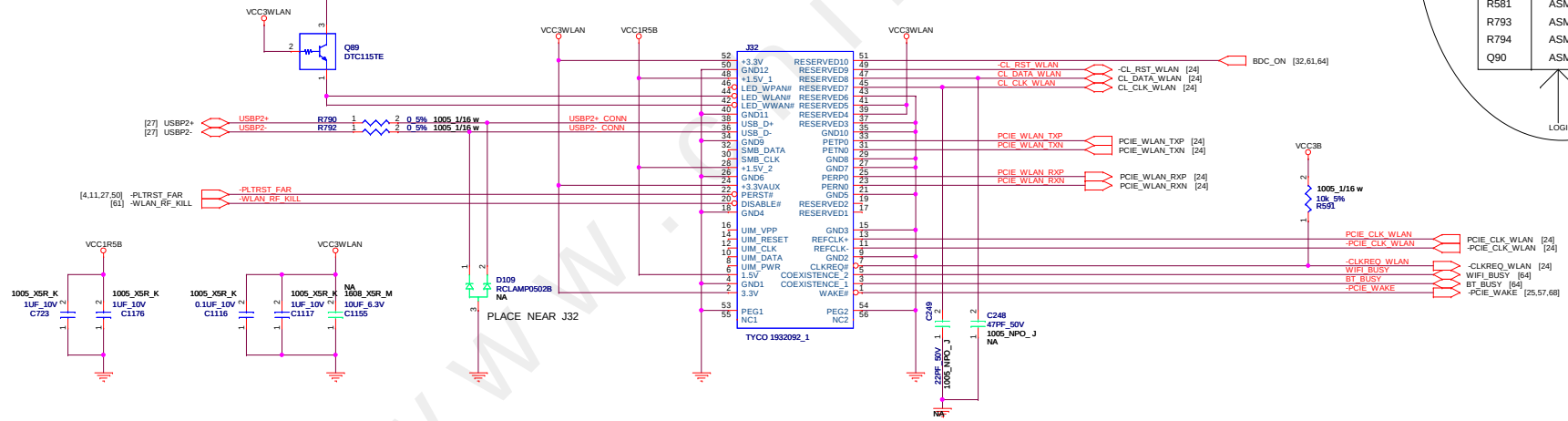
WWAN mSATA	YES	NO
J22	ASM	NO_ASM
J25	ASM	NO_ASM
C717	ASM	NO_ASM
C718	ASM	NO_ASM
C1118	ASM	NO_ASM
C1119	ASM	NO_ASM
R1066	ASM	NO_ASM
C623	ASM	NO_ASM
D21	ASM	NO_ASM
R581	ASM	NO_ASM
R793	ASM	NO_ASM
R794	ASM	NO_ASM
Q90	ASM	NO_ASM

LOGIC

NZM3_UMA_SVT_EC809

HALF MINI CARD FOR WLAN

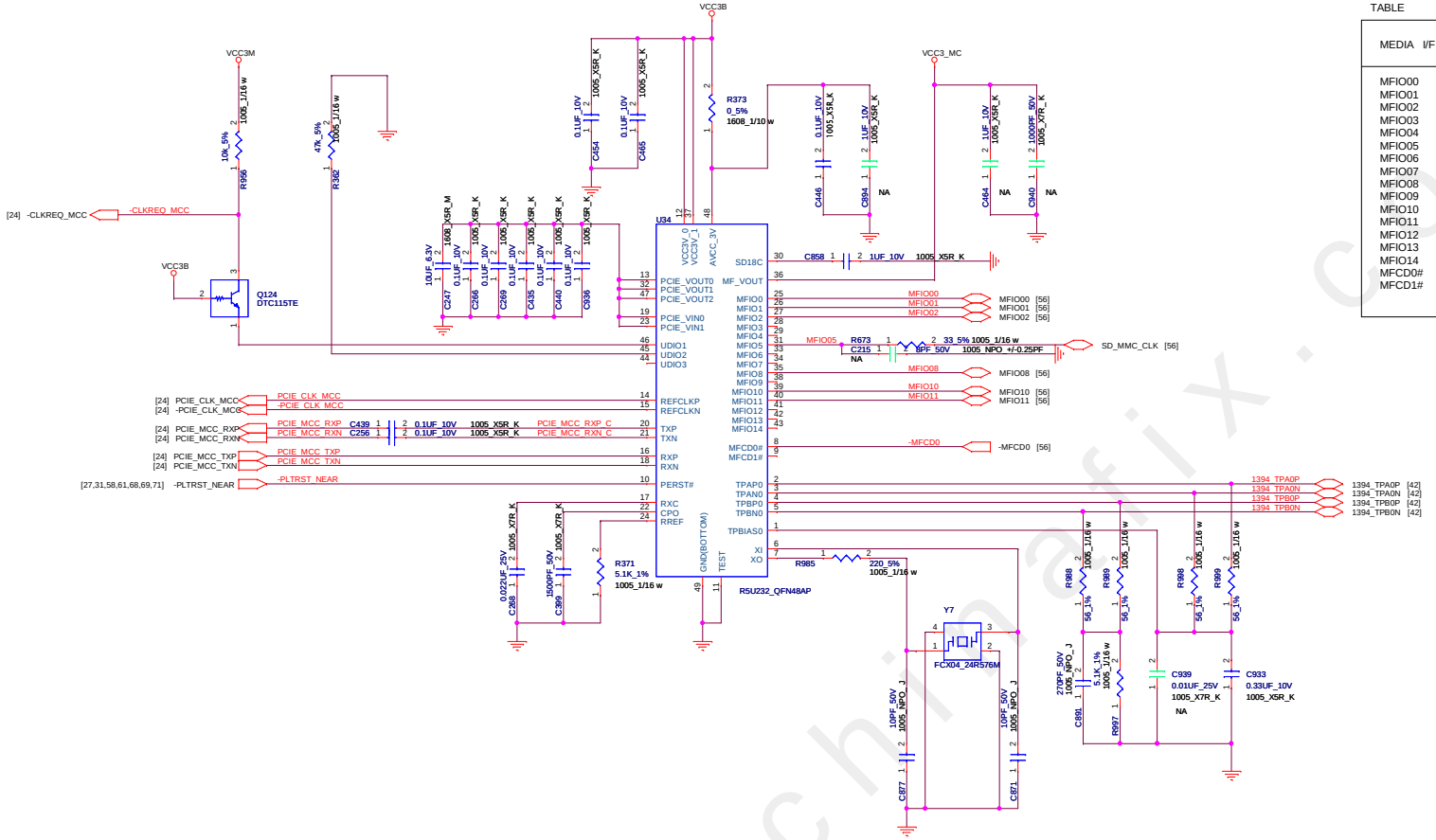
7.0H CONNECTOR



www.chinafix.com

FLEX Computing

Project Name : H430UI1	Title : PCIE MINI CARD SLOT		
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 54 of 99	



TABLE

MEDIA I/F	SD/MMC	MEMORSTICK	XD
MFIO00	SDWP#	MSBS	XD_D7
MFIO01	SD_D1		XD_D6
MFIO02	SD_D0	MS_D1	XD_D5
MFIO03	(SD_D7)		XD_D4
MFIO04	(SD_D6)	(MS_D5)	XD_D3
MFIO05	SD_CLK	MS_D0	XD_D2
MFIO06			XD_D1
MFIO07	(SD_D5)	(MS_D4)	XD_D0
MFIO08	SD_CMD	MS_D2	XD_WP#
MFIO09	(SD_D4)	(MS_D6)	XD_WE#
MFIO10	SD_D3	MS_D3	XD_ALE
MFIO11	SD_D2		XD_CLE
MFIO12			XD_CE#
MFIO13		(MS_D7)	XD_RE#
MFIO14		MS_CLK	XD_R/B#
MFCD0#	SDCD#		XDCD0#
MFCD1#		MSINS#	XDCD1#

UDIO Pin Assignment Table

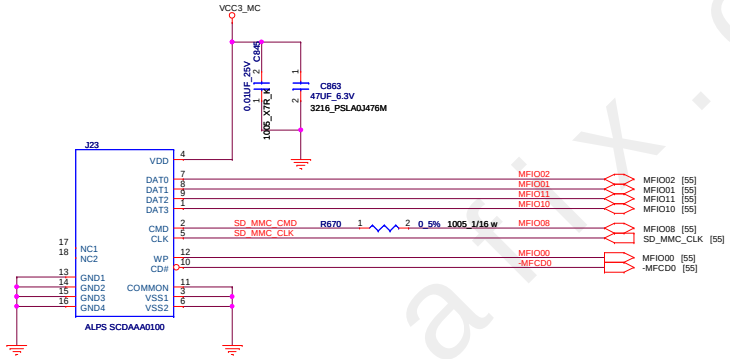
UDIO	Default
01	CLKREQ#
02	SCL/SROM_EN
03	SDA

MFCDxN Detection Table

MFCDxN		Card Type
1	0	
H	H	(No Card)
H	L	SD Card/MMC
L	H	MemoryStick
L	L	XD Card

FLEXComputing			
Project Name : H430UI1	Title : 1394/MEDIA CARD CONTROLLER		
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F	
Date: Monday, December 13, 2010	Sheet : 55 of 99		

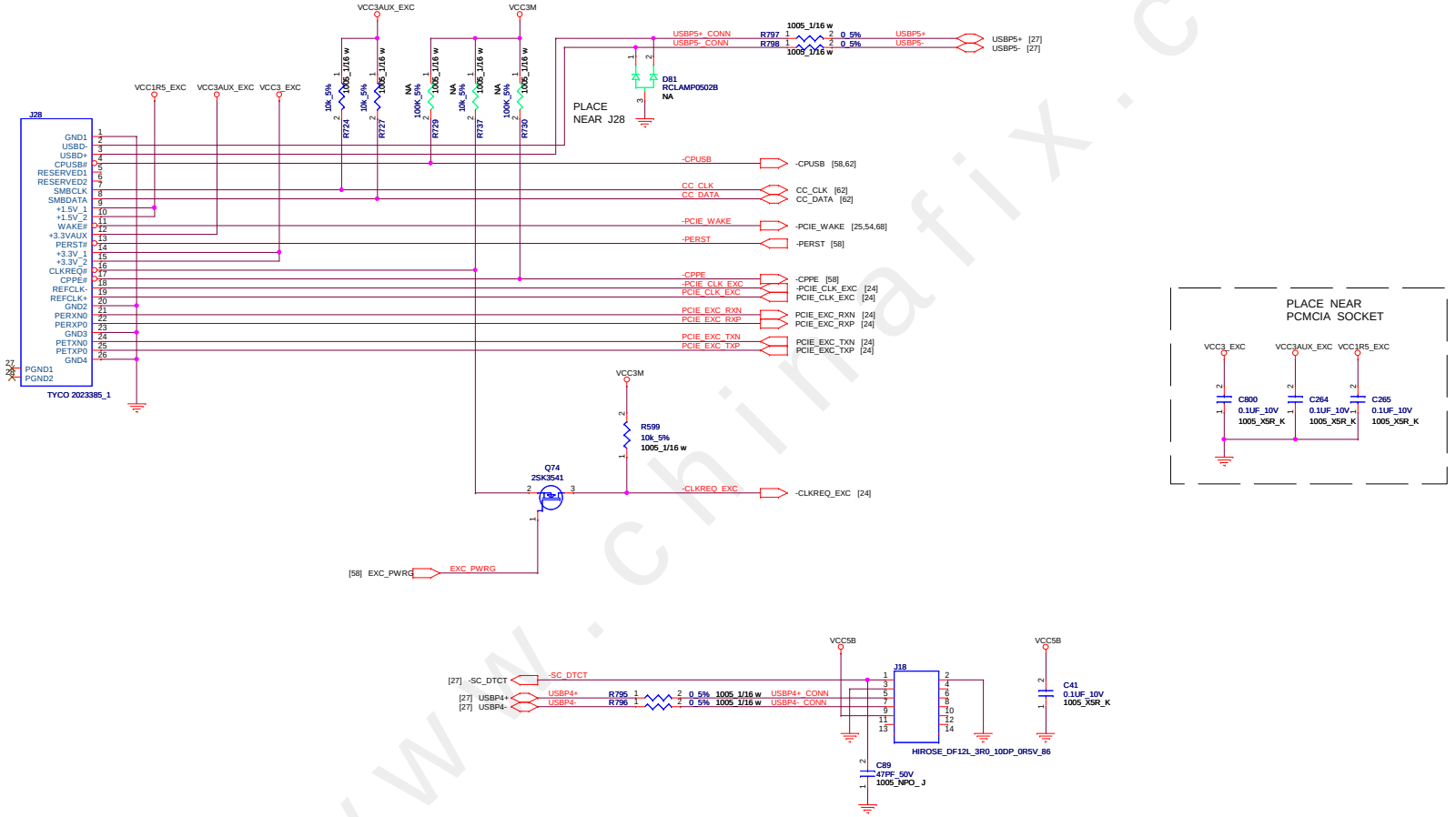
www.chinafix.com



www.chinafix.com

FLEX Computing

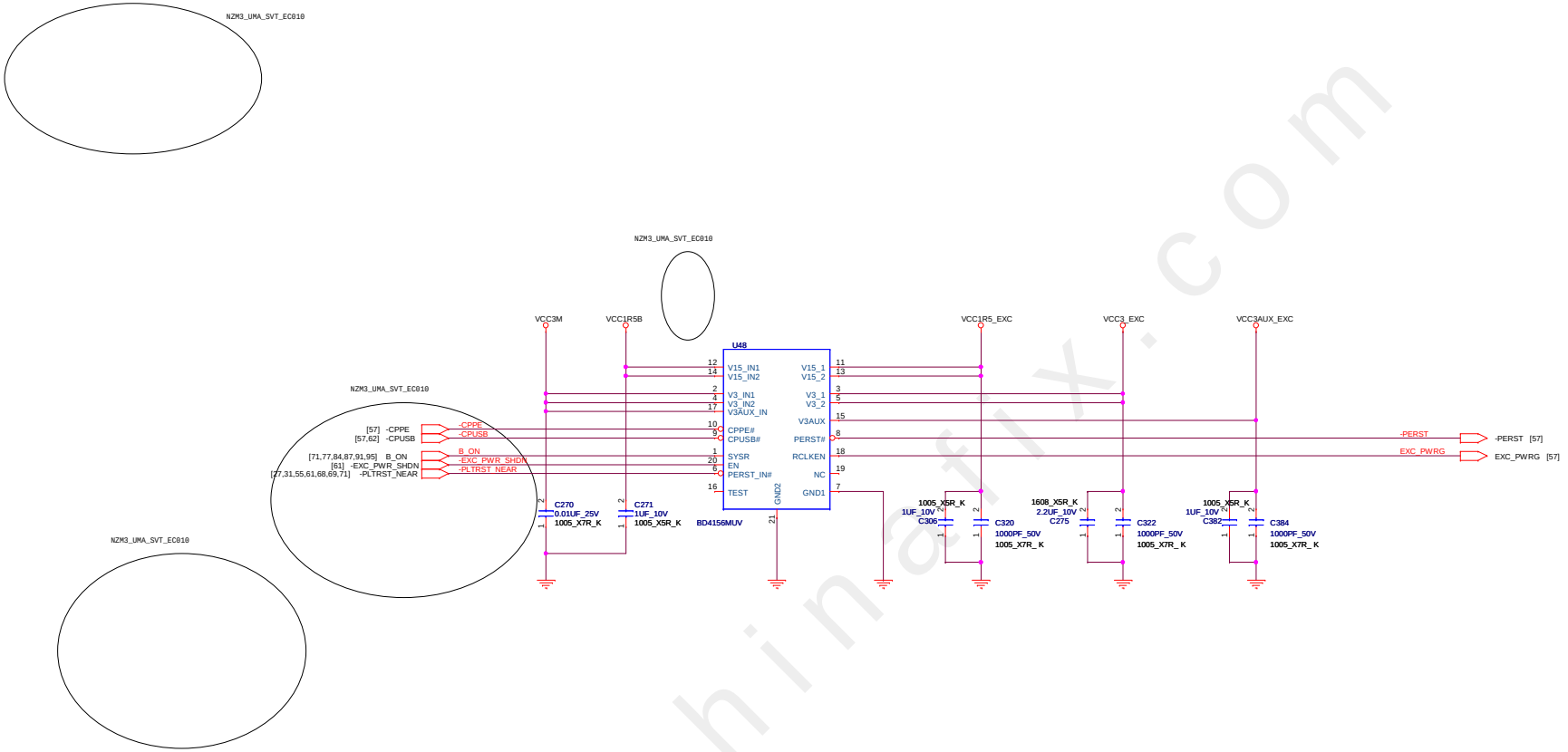
Project Name : H430UI1		Title : MEDIA CARD INTERFACE	
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 56 of 99	



www.chinafix.com

FLEX Computing

Project Name : H430UI1	Title : EXPRESS CARD/SMART CARD I/F		
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F	
Date: Monday, December 13, 2010	Sheet : 57 of 99		



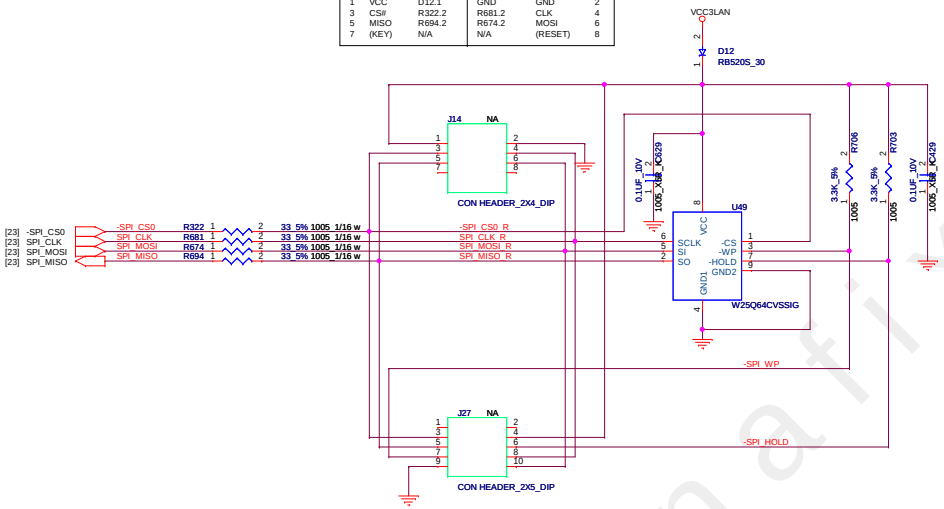
www.chinafix.com

FLEX Computing

Project Name : H430UI1	Title : SLOT POWER CONTROL	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 58 of 99	

TABLE

SF100 PIN HEADER INTERFACE (TOP VIEW)					
1	VCC	D12.1	GND	GND	2
3	CS#	R322.2	R681.2	CLK	4
5	MISO	R694.2	R674.2	MOSI	6
7	(KEY)	N/A	N/A	(RESET)	8



8MB SOIC8
MACRONIX MX25L6436EM2I-10G
MACRONIX MX25L6406EM2I-12G
WINBOND W25Q64CVSSIG

8MB WSON8
NUMONYX M25PX64-VMD6TG

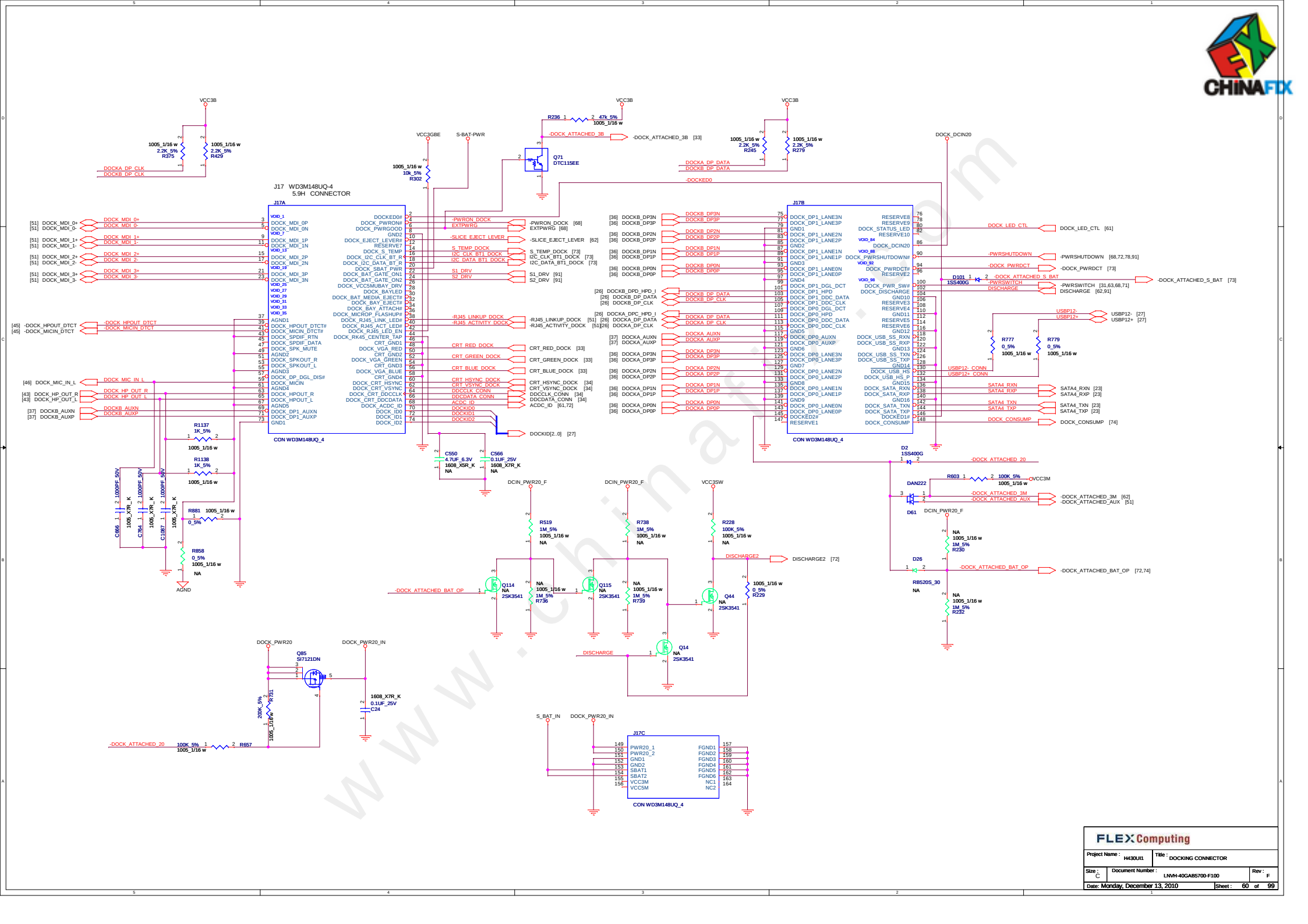
TABLE

EM100 PIN HEADER INTERFACE (TOP VIEW)			
1	(HOLD1#)	(CS1#)	2
3	CS0#	VCC	4
5	MISO	HOLD0#	6
7	WP0#	CLK	8
9	GND	MOSI	10

FLEXComputing

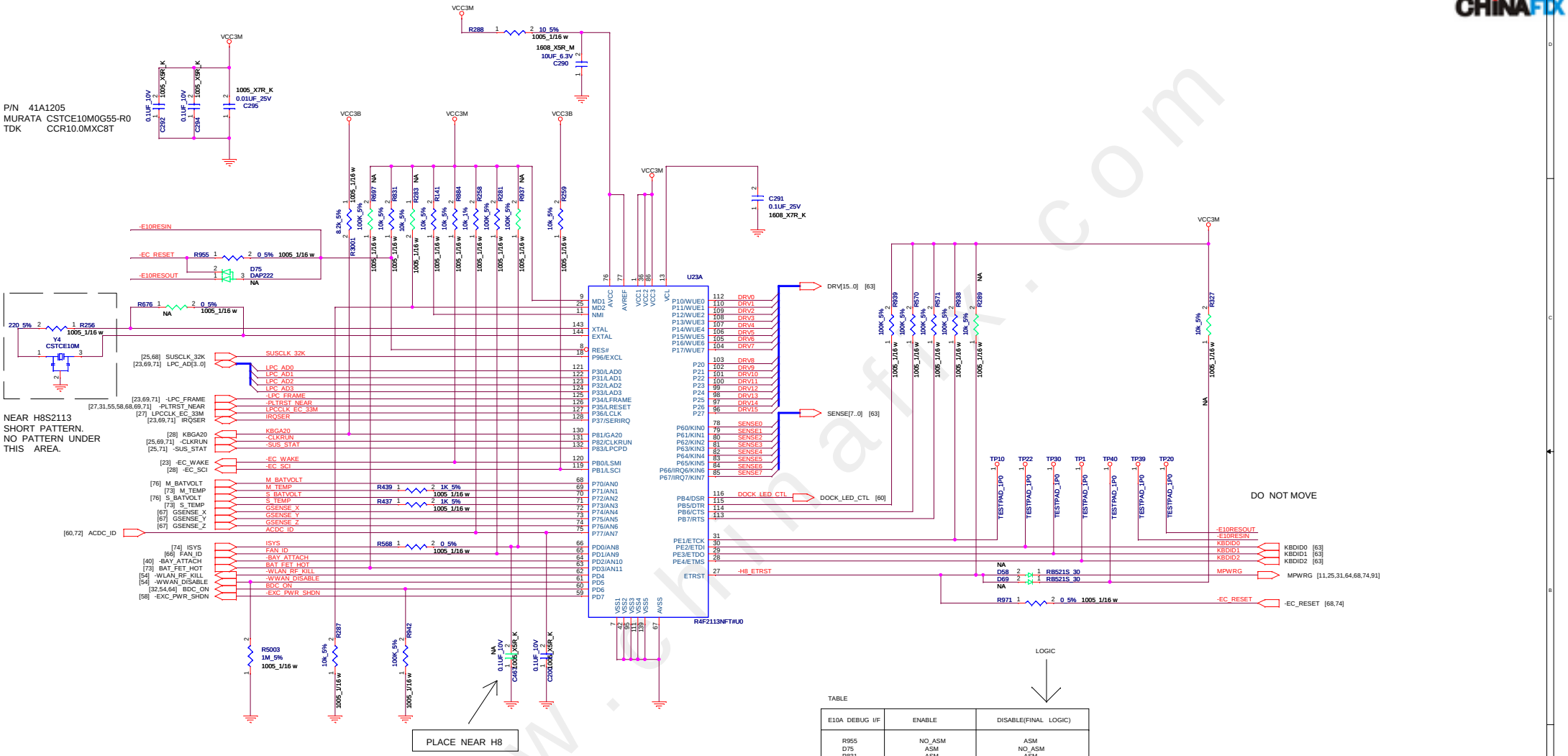
Project Name : H430UI1	Title : SPI FLASH	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 59 of 99	

www.chinafix.com



www.chinafix.com

FLEX Computing			
Project Name : H430UI1	Title : DOCKING CONNECTOR		
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010	Sheet : 60 of 99		

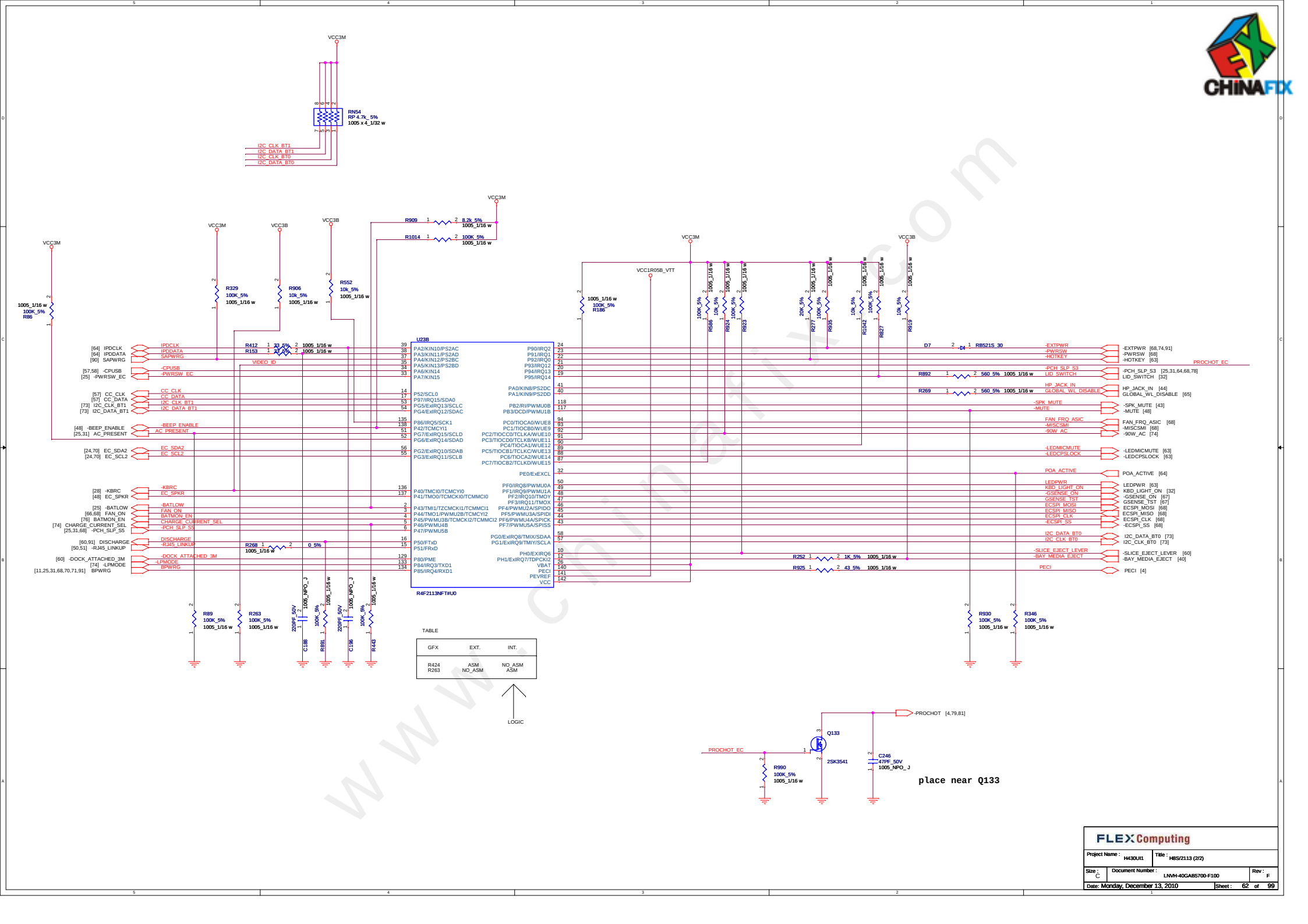


TABLE

E10A DEBUG I/F	ENABLE	DISABLE(FINAL LOGIC)
R955 D75 R831	NO_ASM ASM ASM	ASM NO_ASM ASM
R971 D58 D69 R289 R327	NO_ASM ASM ASM ASM ASM	ASM NO_ASM NO_ASM NO_ASM NO_ASM
R283 R287	ASM NO_ASM	NO_ASM ASM
R881 R218	ASM NO_ASM	NO_ASM ASM
RN25	NO_ASM	ASM

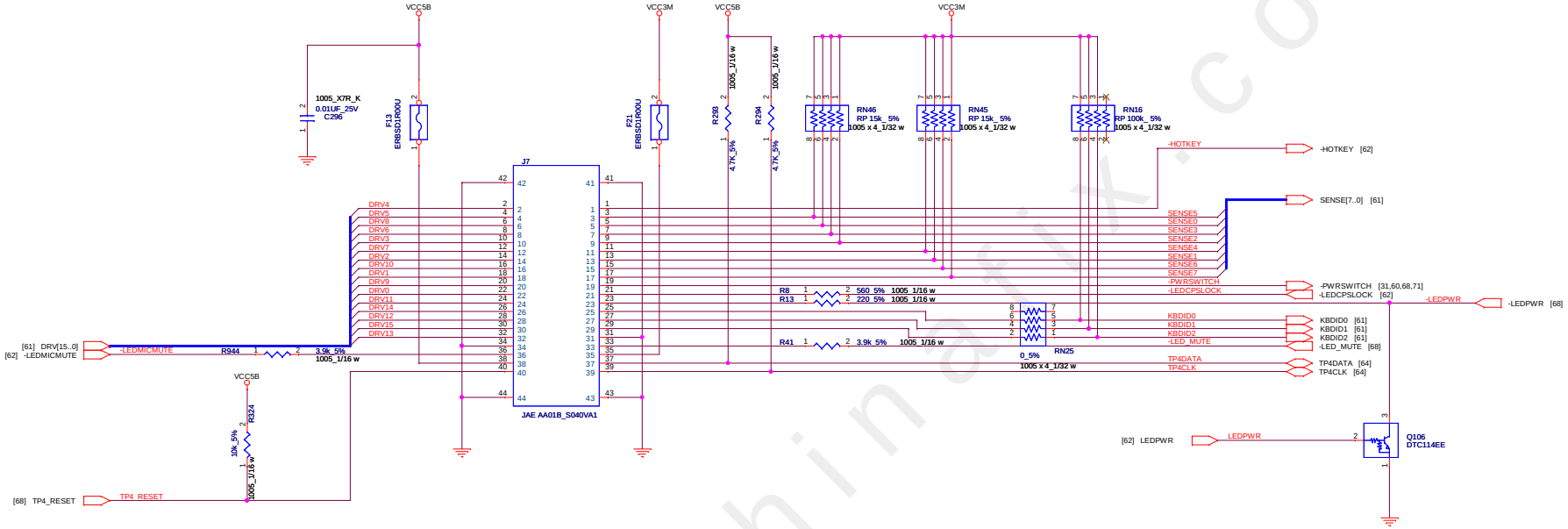
FLEX Computing			
Project Name : H430UI1	Title : H8S/2113 (1/2)		
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 61 of 99	

www.chinafix.com



www.chinafix.com

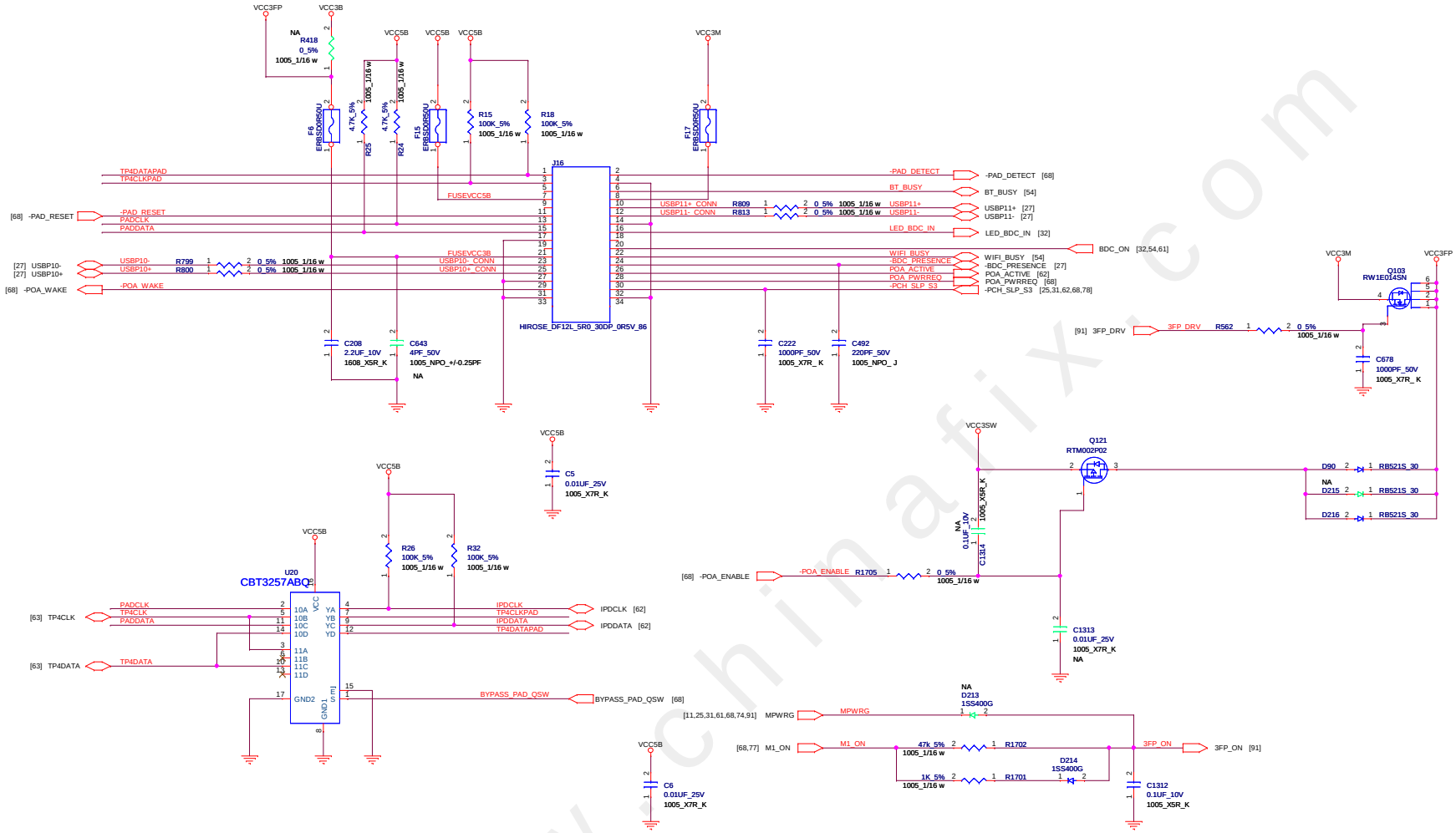
Project Name : H430UI1	Title : HBS/2113 (2/2)
Size : C	Document Number : LNVH-40GAB5700-F100
Rev : F	
Date: Monday, December 13, 2010	Sheet : 62 of 99



www.chinafix.com

FLEX Computing

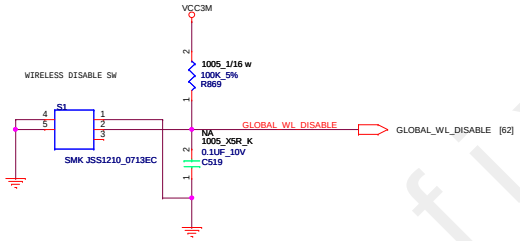
Project Name : H430UI1	Title : KEYBOARD CONNECTOR	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 63 of 99	



www.chinafix.com

FLEX Computing

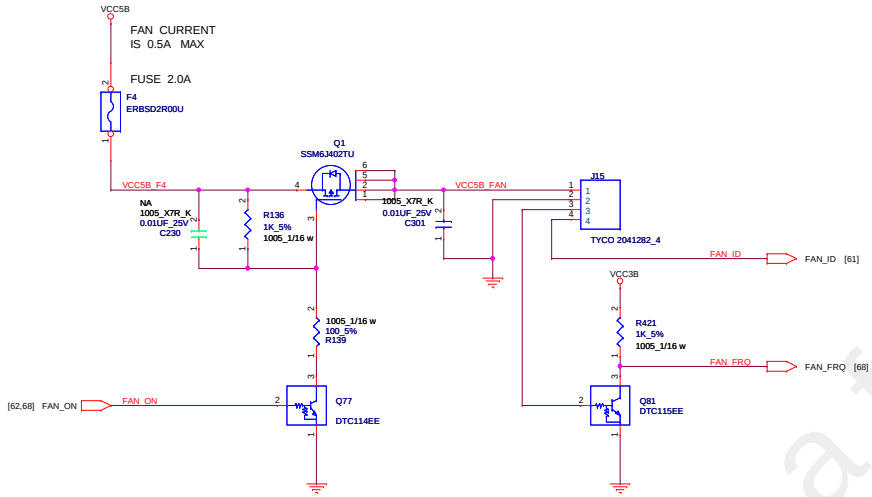
Project Name : H430UI1	Title : TOUCH PAD CONNECTOR
Size : C	Document Number : LNVH-40GAB5700-F100
Rev : F	
Date: Monday, December 13, 2010	Sheet : 64 of 99



www.chinafix.com

FLEX Computing

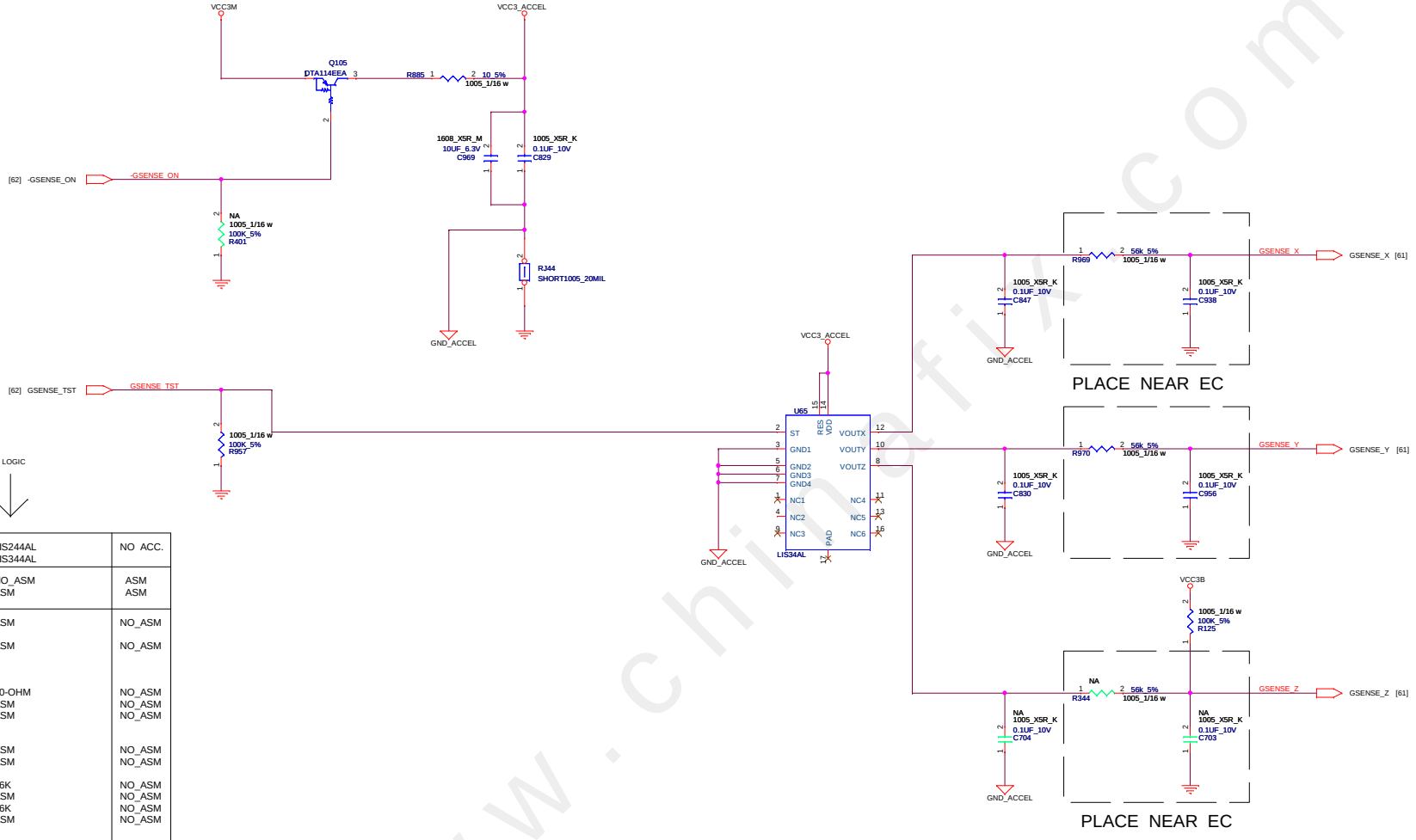
Project Name : H430UI1	Title : WIRELESS DISABLE SW	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 65 of 99	



www.chinafix.com

FLEX Computing

Project Name : H430UI1	Title : FAN CONNECTOR		
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 66 of 99	



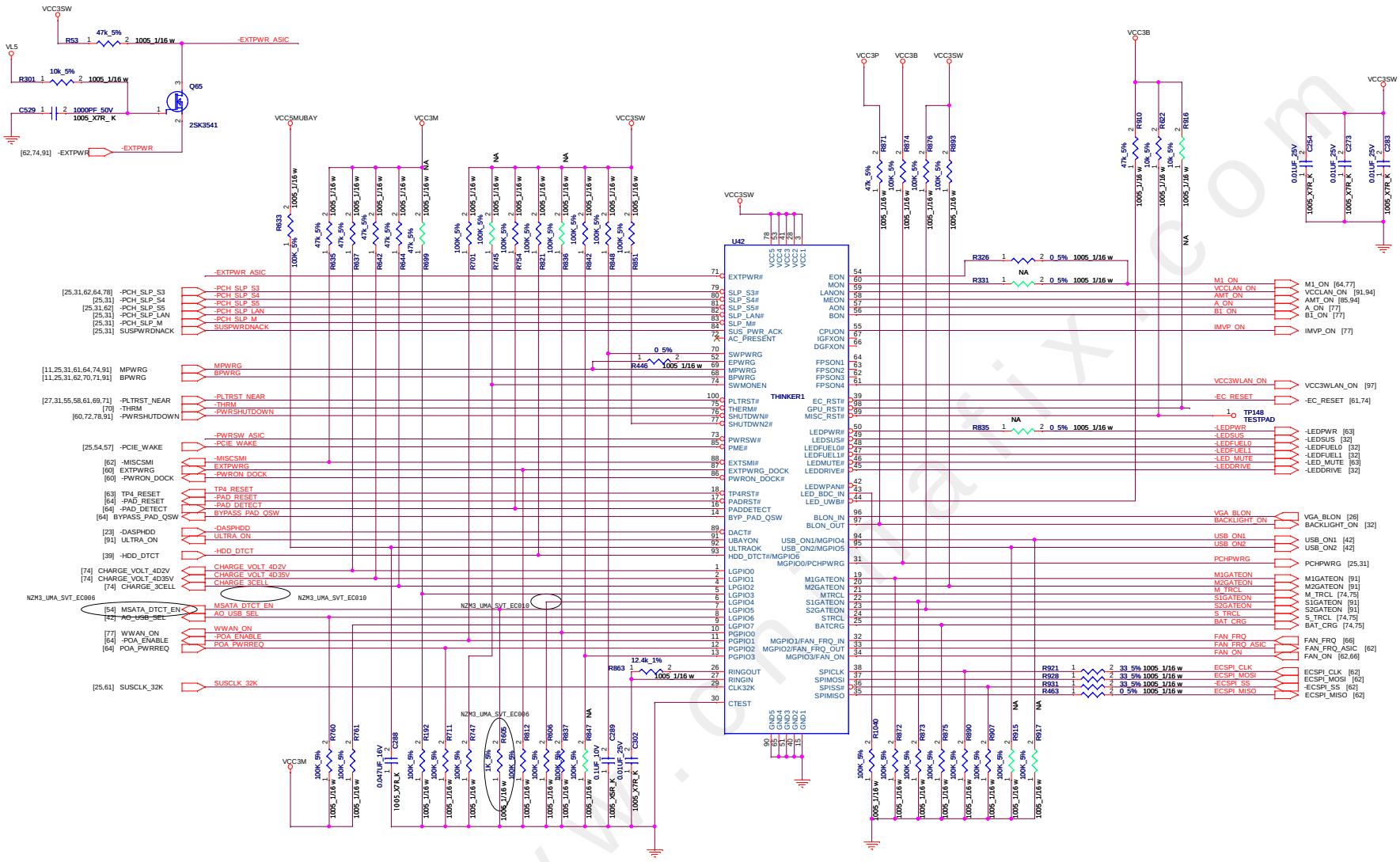
TABLE

	LIS244AL LIS344AL	NO ACC.
R401 R957	NO_ASM ASM	ASM ASM
U65	ASM	NO_ASM
Q105	ASM	NO_ASM
R885 C829 C969	10-OHM ASM ASM	NO_ASM NO_ASM NO_ASM
C830 C847	ASM ASM	NO_ASM NO_ASM
R969 C938 R970 C956	56K ASM 56K ASM	NO_ASM NO_ASM NO_ASM NO_ASM
C704 R344 C703	NO_ASM NO_ASM NO_ASM	NO_ASM NO_ASM NO_ASM
R125	ASM	ASM

www.chinafix.com

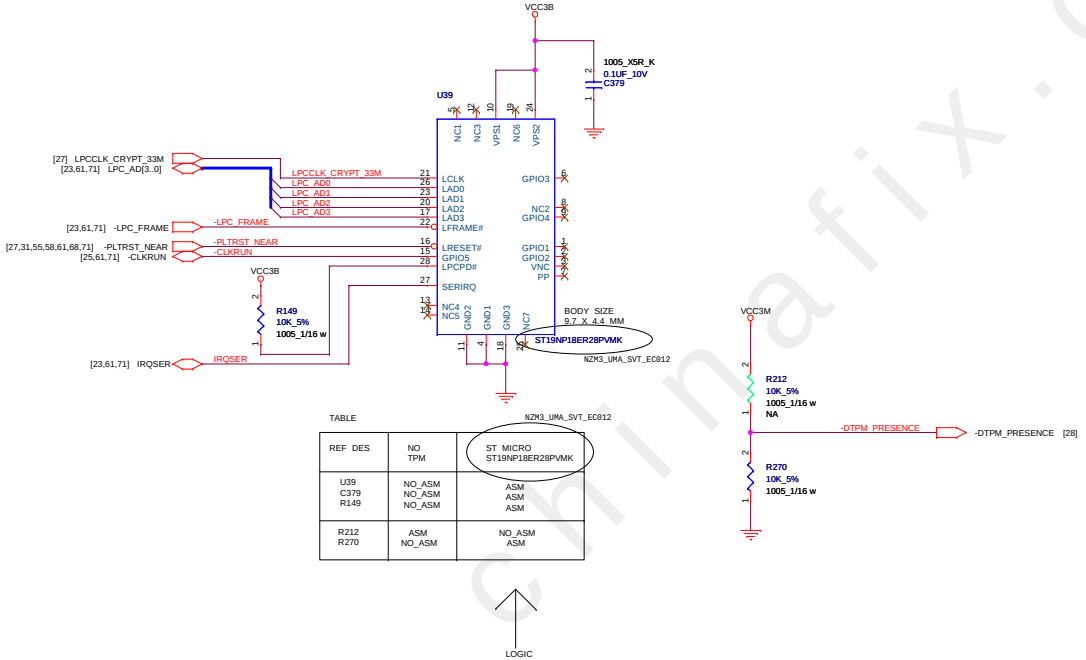
FLEX Computing

Project Name : H430UI1	Title : G-SENSOR	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 67 of 99	



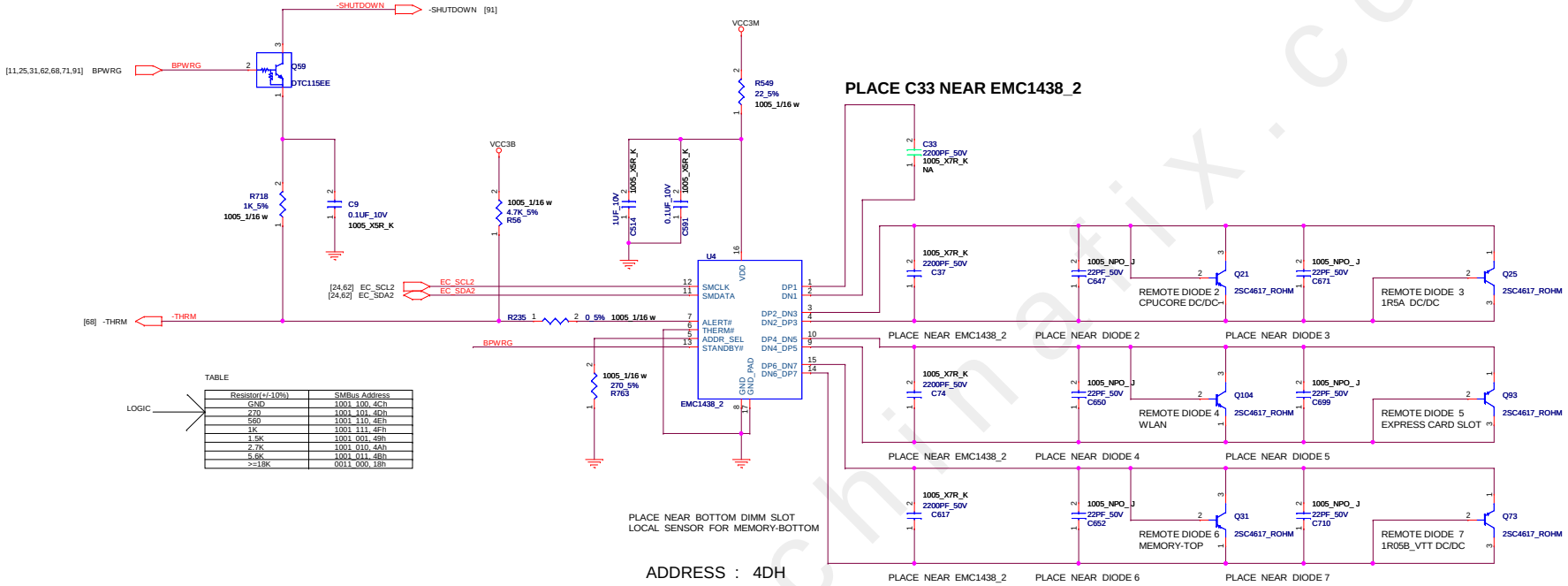
www.chinafix.com

FLEX Computing			
Project Name : H430UI1	Title : THINKER-1		
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 68 of 99	



www.chinafix.com

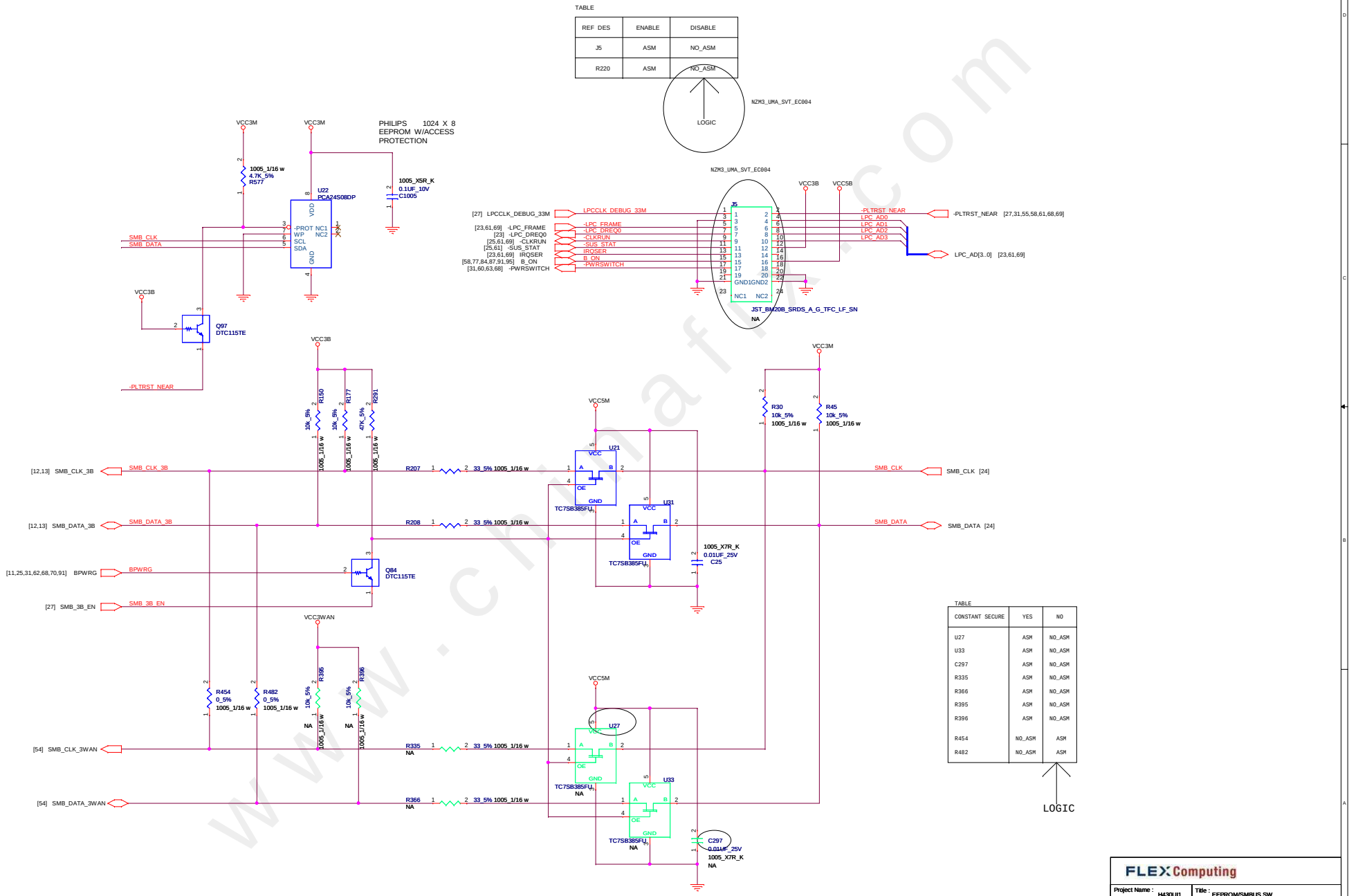
FLEX Computing		
Project Name : H430UI1	Title : TPM	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 69 of 99	



www.chinafix.com

FLEX Computing

Project Name : H430UI1	Title : THERMAL SENSOR		
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F	
Date: Monday, December 13, 2010	Sheet : 70 of 99		

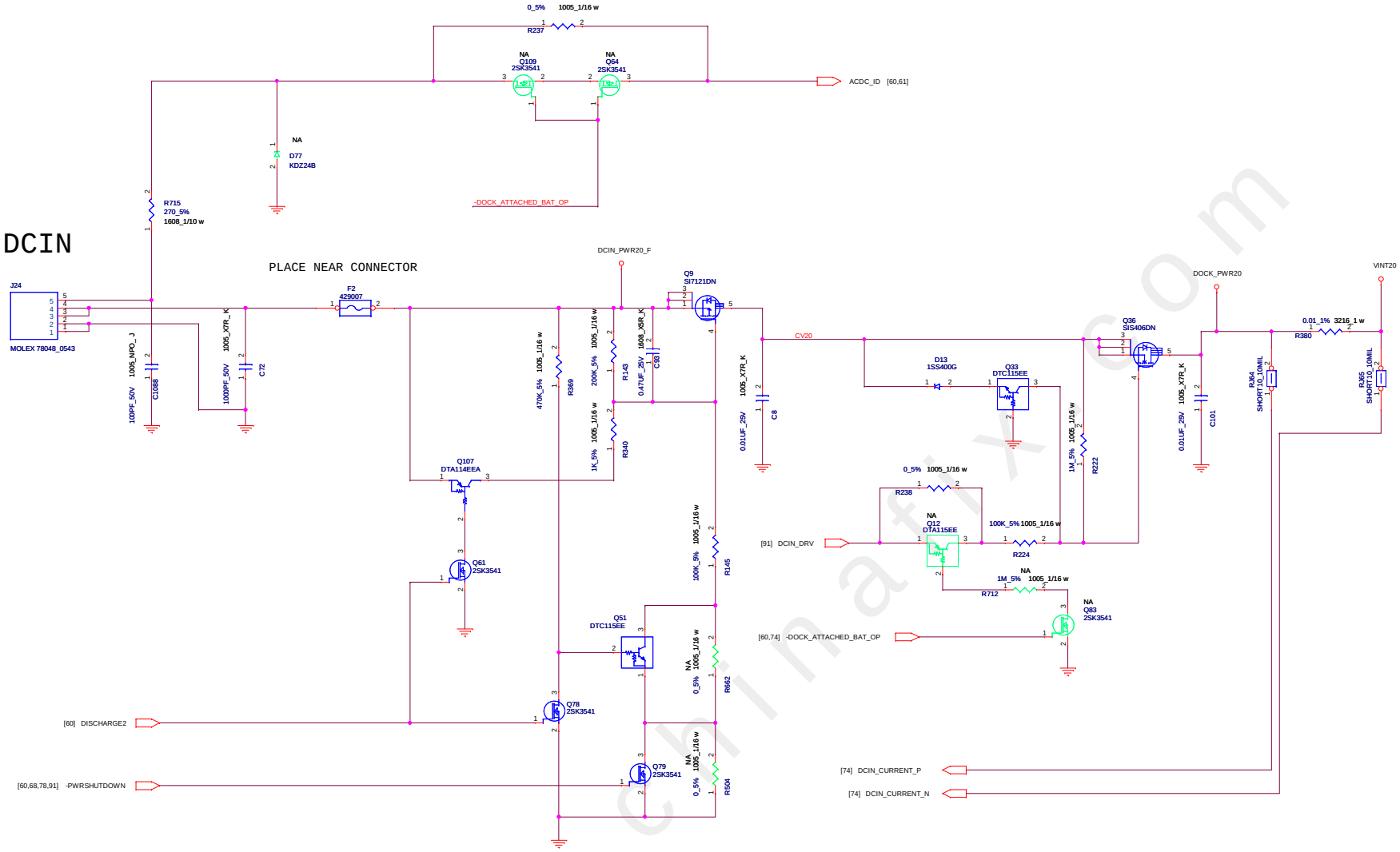


FLEX Computing

Project Name : H430UI1	Title : EEPROM/SMBUS SW	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 71 of 99	

www.chinafix.com

DCIN



TABLE

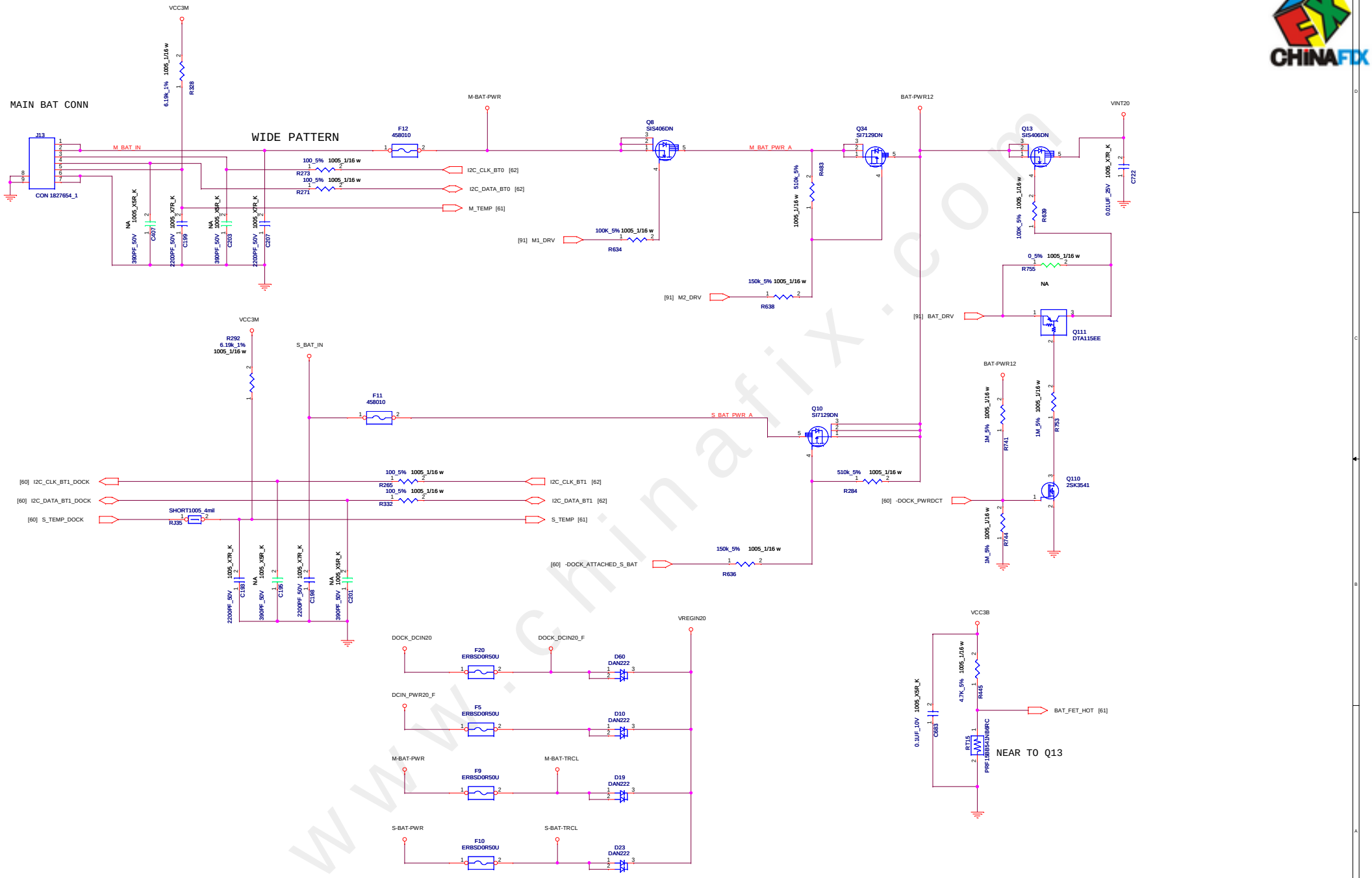
PEAK SHIFT	YES	NO
R662	NO-ASM	ASM
R369	ASM	NO-ASM
Q78	ASM	NO-ASM
Q51	ASM	NO-ASM

LOGIC

www.chinafix.com

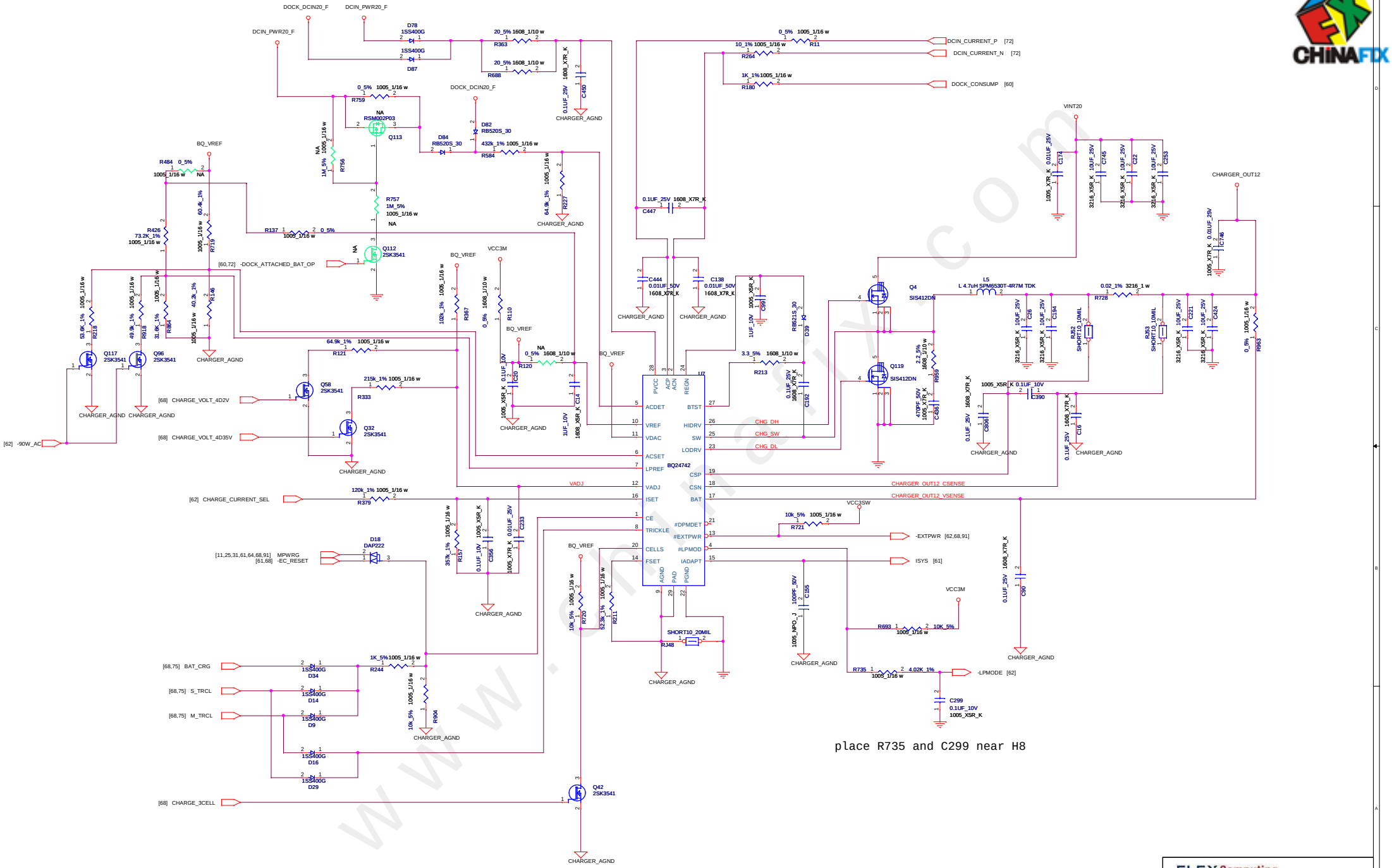
FLEX Computing

Project Name : H430UI1	Title : DC-IN		
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 72 of 99	



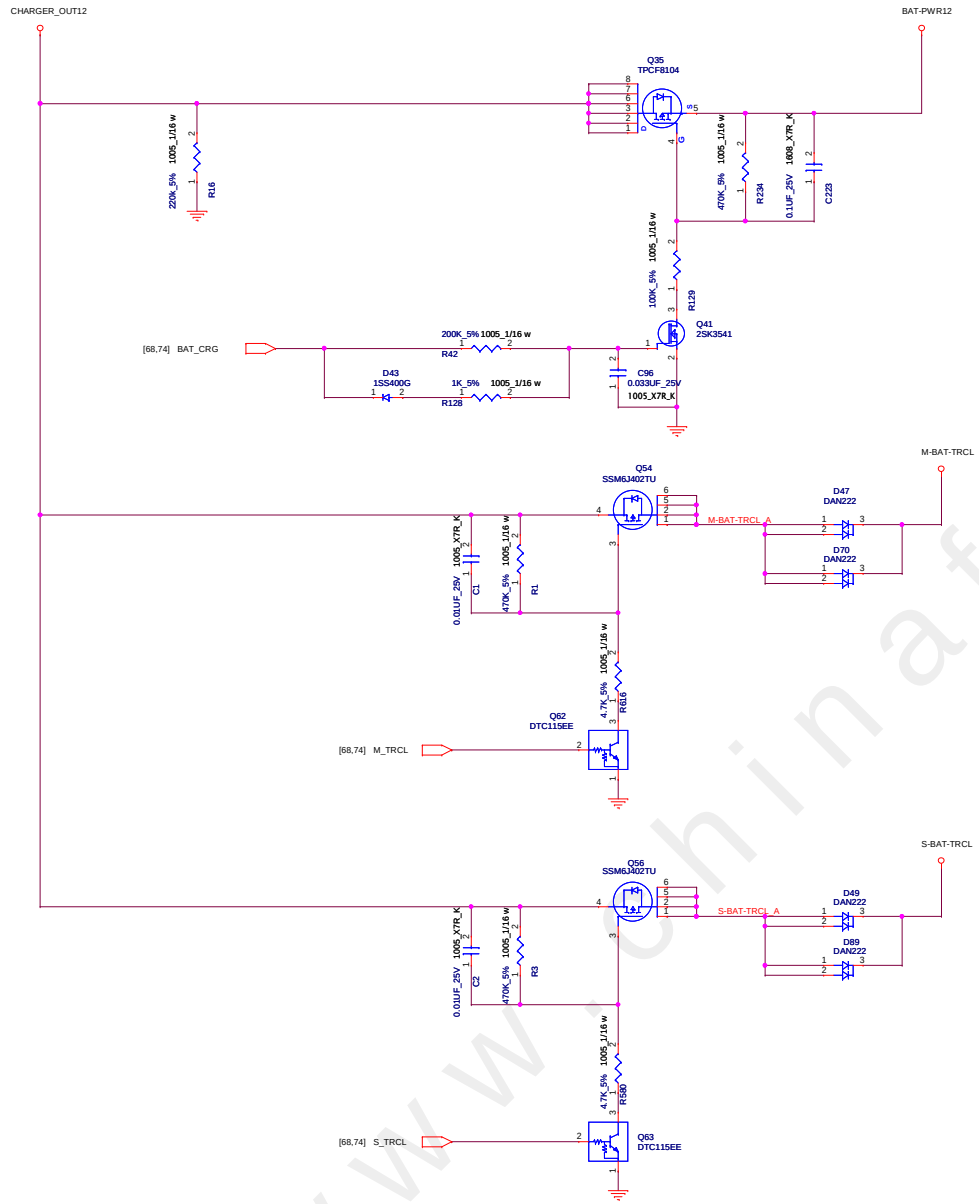
www.chinafix.com

FLEX Computing			
Project Name : H430UI1	Title : BATTERY INPUT		
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 73 of 99	



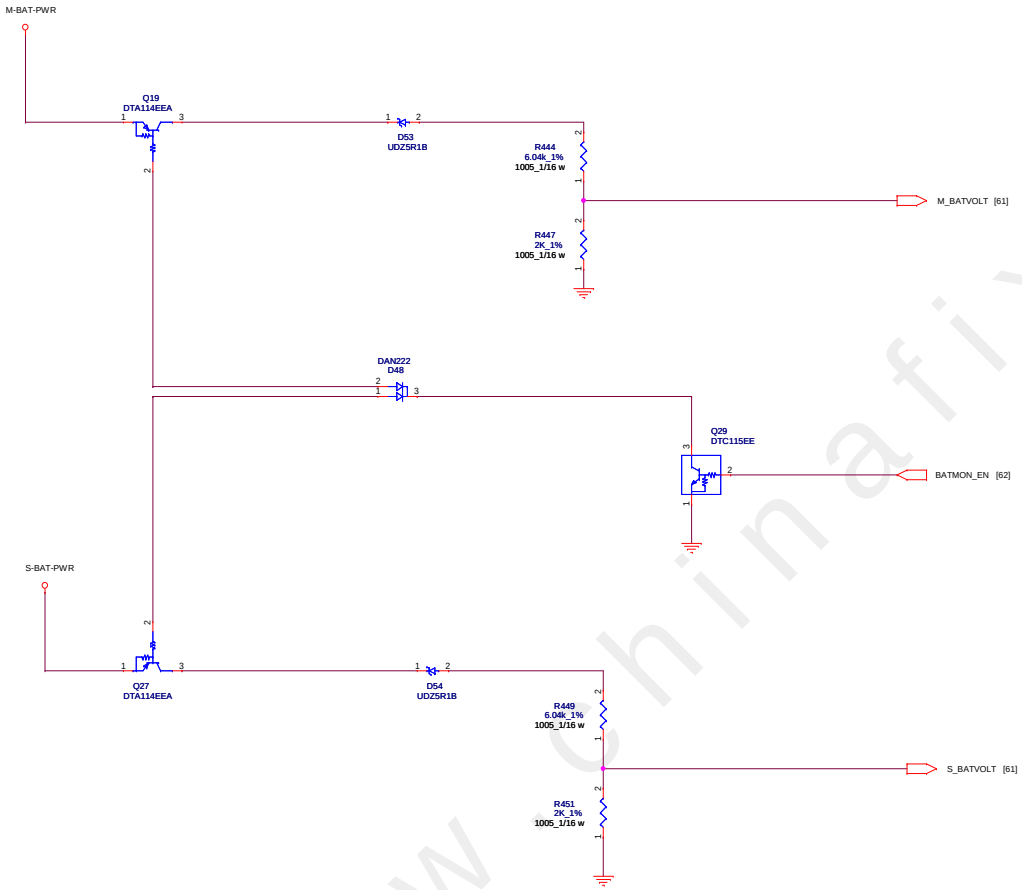
www.chinafix.com

FLEX Computing		
Project Name : H430UI1	Title : BATTERY CHARGER	
Size :	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 74 of 99	



www.chinafix.com

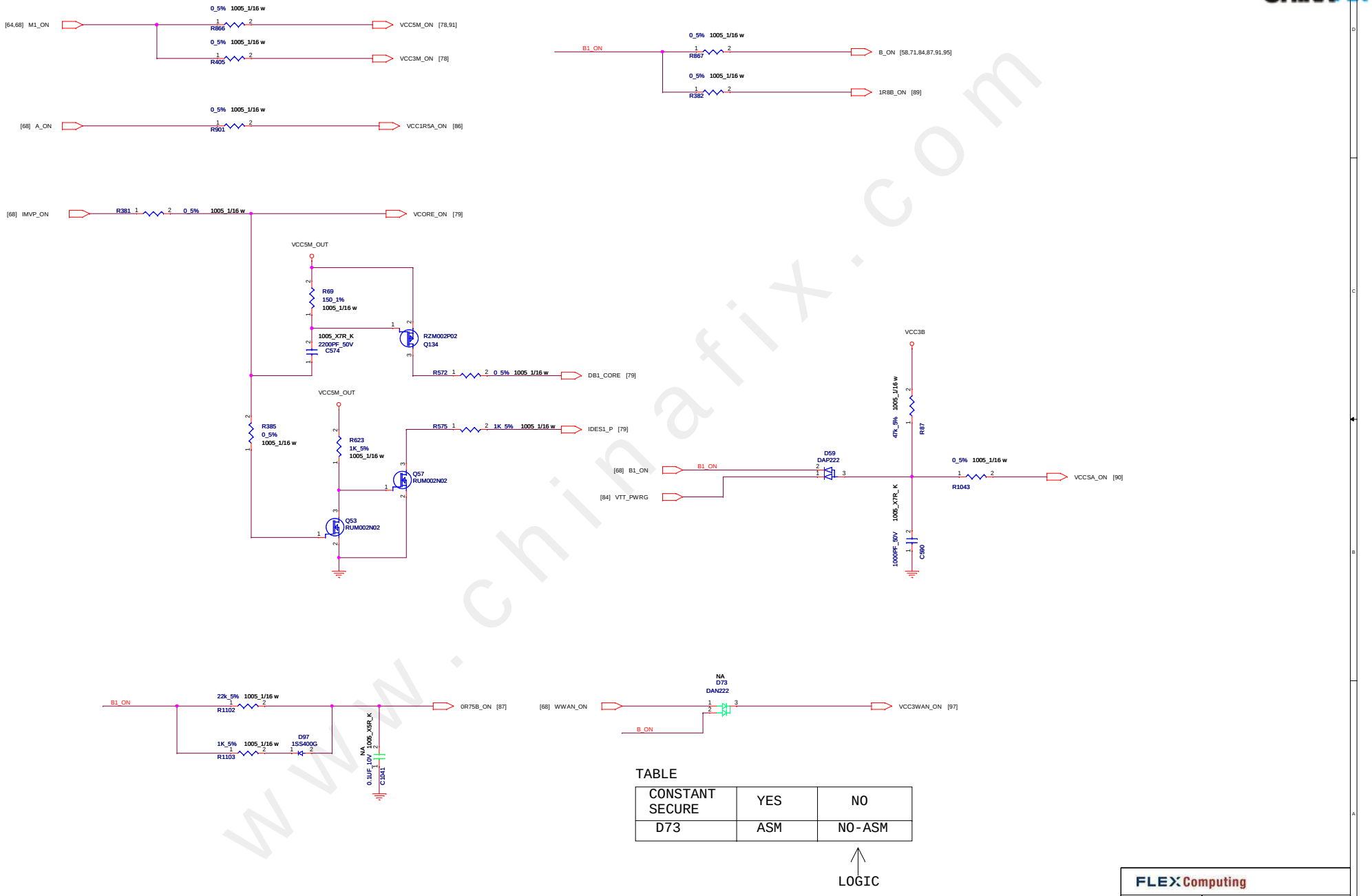
FLEX Computing			
Project Name : H430UI1	Title : CHARGE SELECTOR		
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 75 of 99	



www.chinafix.com

FLEX Computing

Project Name : H430UI1	Title : BATTERY MONITOR		
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F	
Date: Monday, December 13, 2010	Sheet : 76 of 99		



TABLE

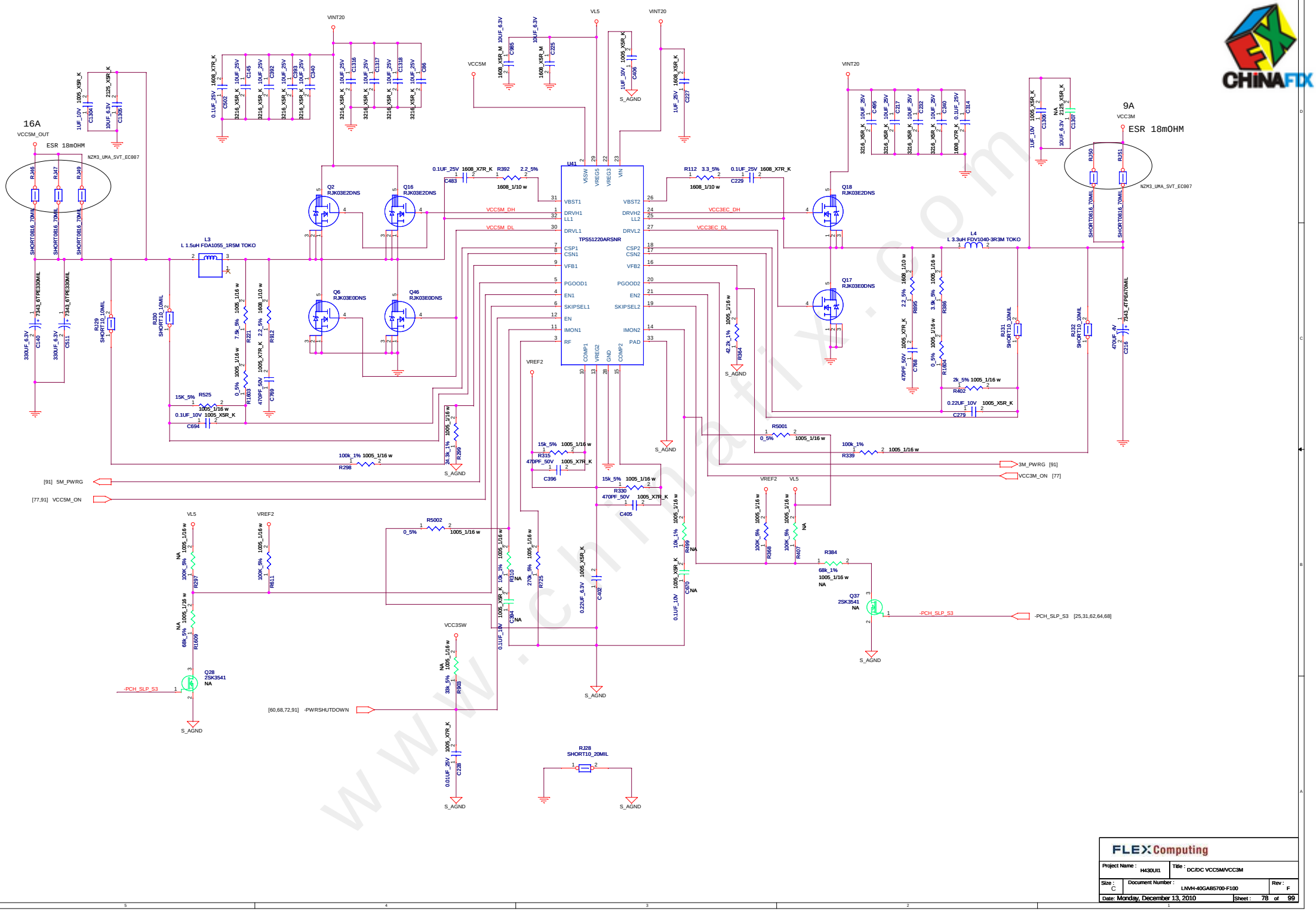
CONSTANT SECURE	YES	NO
D73	ASM	NO-ASM

LOGIC

FLEXComputing

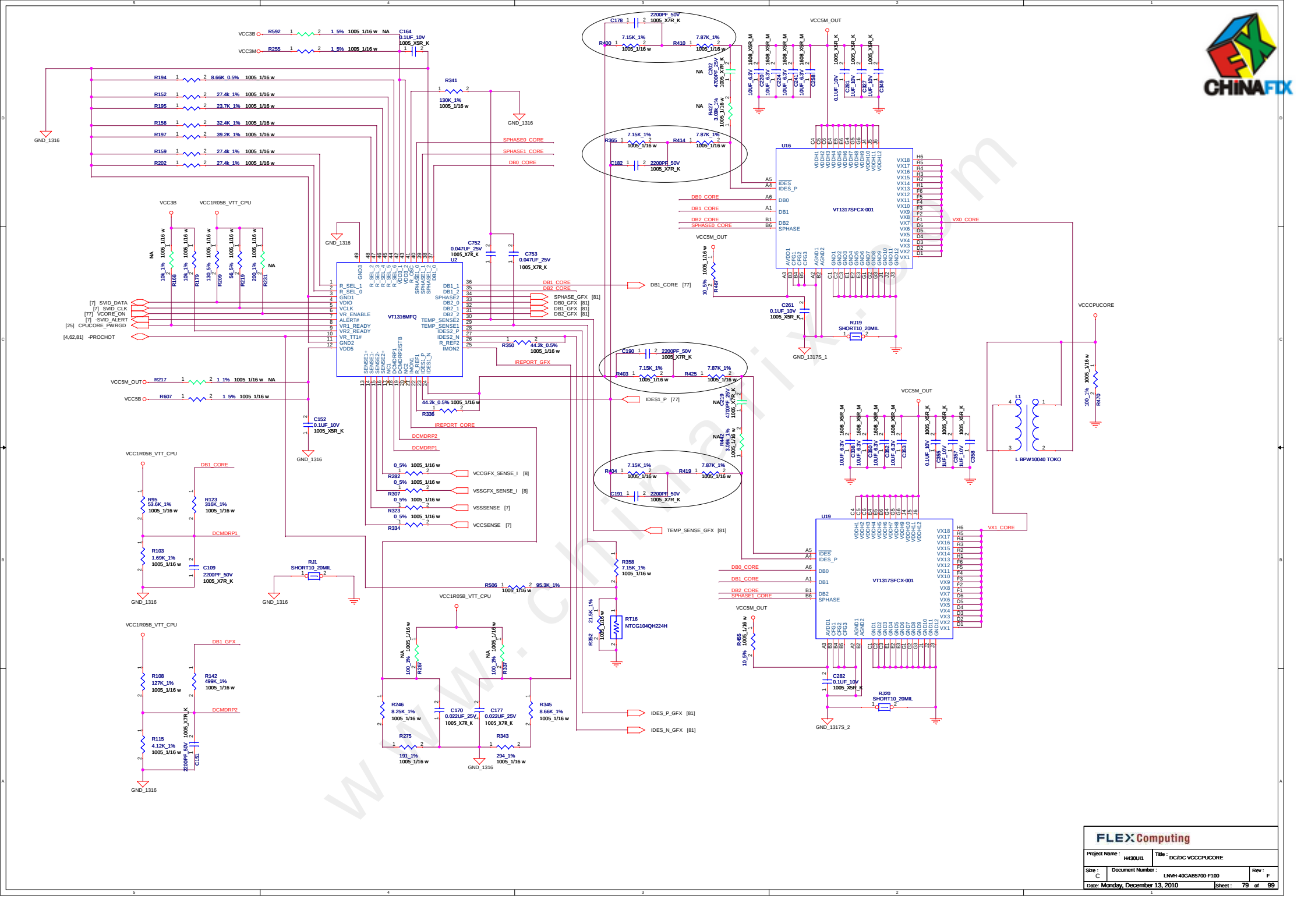
Project Name : H430UI1	Title : POWER SEQUENCE		
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 77 of 99	

www.chinafix.com



FLEX Computing

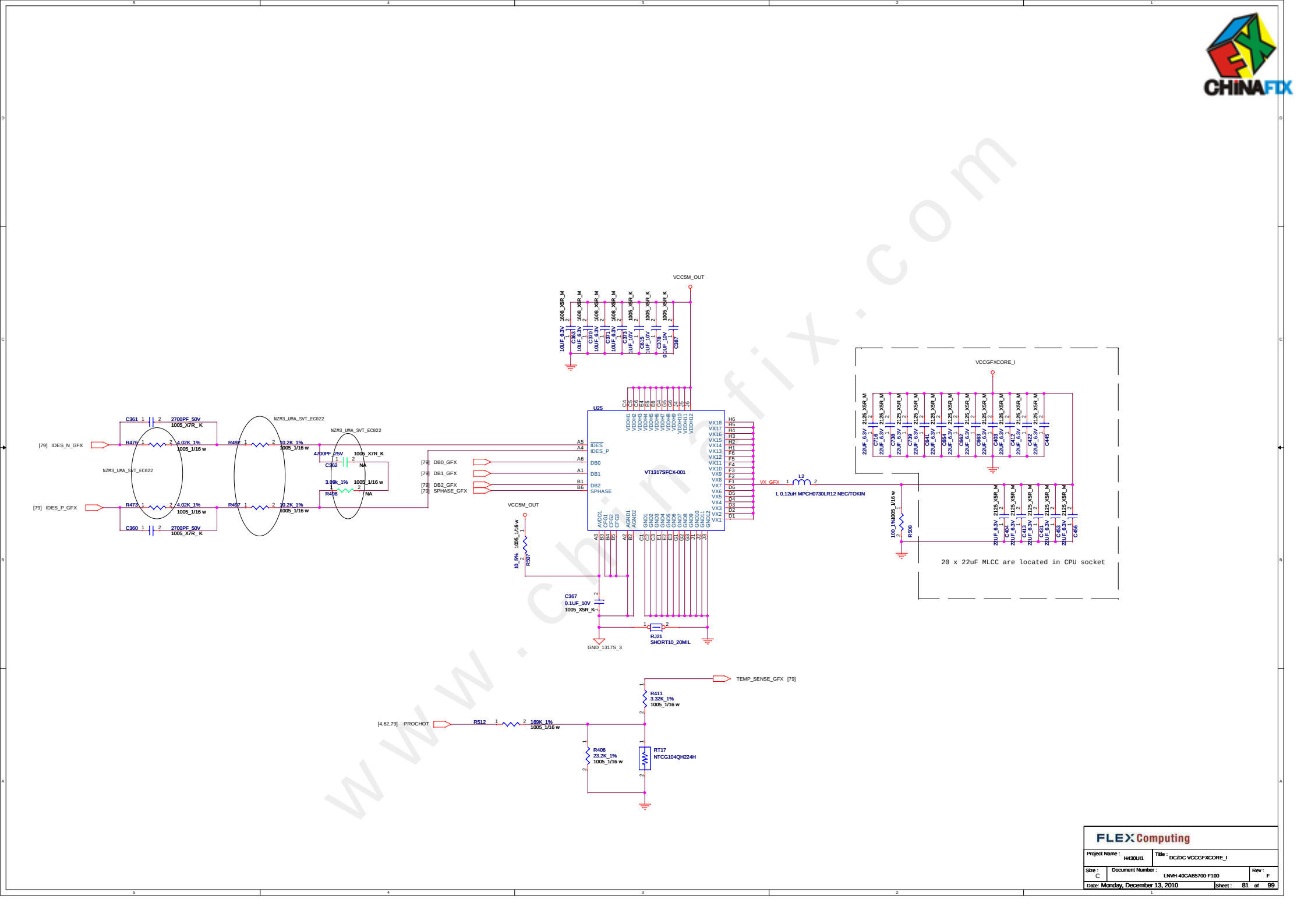
Project Name : H430UI1	Title : DC/DC VCC5M/VCC3M	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 78 of 99	


VT1316MFQ
VT1317SFCX-001
U16
U19
U2
VCC5M_OUT
VCC1R05B_VTT_CPU
VCC3B
GND_1316
VCCCPUCORE
VX0_CORE
VX1_CORE
DB0_CORE
DB1_CORE
DB2_CORE
SPHASE0_CORE
SPHASE1_CORE
DB1_GFX
DCMDRP1
DCMDRP2
IREPORT_GFX
IREPORT_CORE
SPHASE_GFX [81]
DB0_GFX [81]
DB1_GFX [81]
DB2_GFX [81]
DB1_CORE [77]
IDES1_P [77]
TEMP_SENSE_GFX [81]
IDES_P_GFX [81]
IDES_N_GFX [81]
VCCGFX_SENSE_I [8]
VSSGFX_SENSE_I [8]
VSSSENSE [7]
VCCSENSE [7]
[7] SVID_DATA
[7] SVID_CLK
[77] VCORE_ON
[7] -SVID_ALERT
[25] CPUCORE_PWRGD
[4,62,81] -PROCHOT
L BPW10040 TOKO
GND_1317S_1
GND_1317S_2
FLEX Computing
Project Name : H430UI1
Title : DC/DC VCCCPUCORE
Size : C
Document Number : LNVH-40GAB5700-F100
Rev : F
Date: Monday, December 13, 2010
Sheet : 79 of 99

www.chinafix.com

FLEX Computing

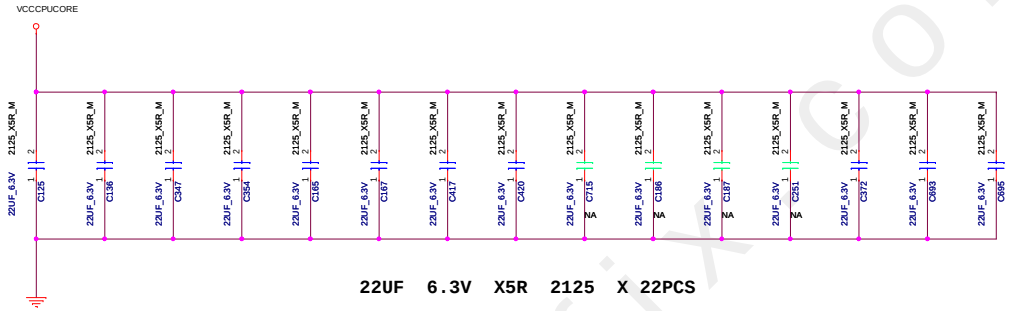
Project Name : H430UI1		Title : BLANK	
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 80 of 99	



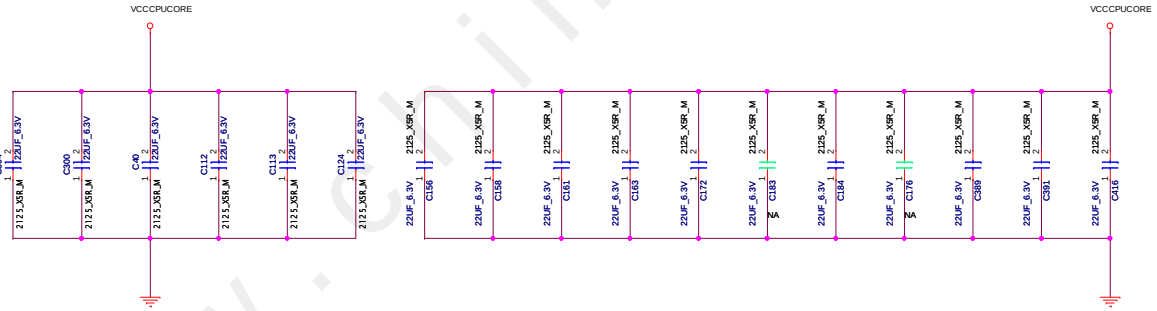
www.chinafix.com

FLEX Computing

Project Name : H430UI1	Title : DC/DC VCCGFXCORE_I
Size : C	Document Number : LNVH-40GAB5700-F100
Rev : F	
Date: Monday, December 13, 2010	Sheet : 81 of 99



22UF 6.3V X5R 2125 X 22PCS



www.chinafix.com

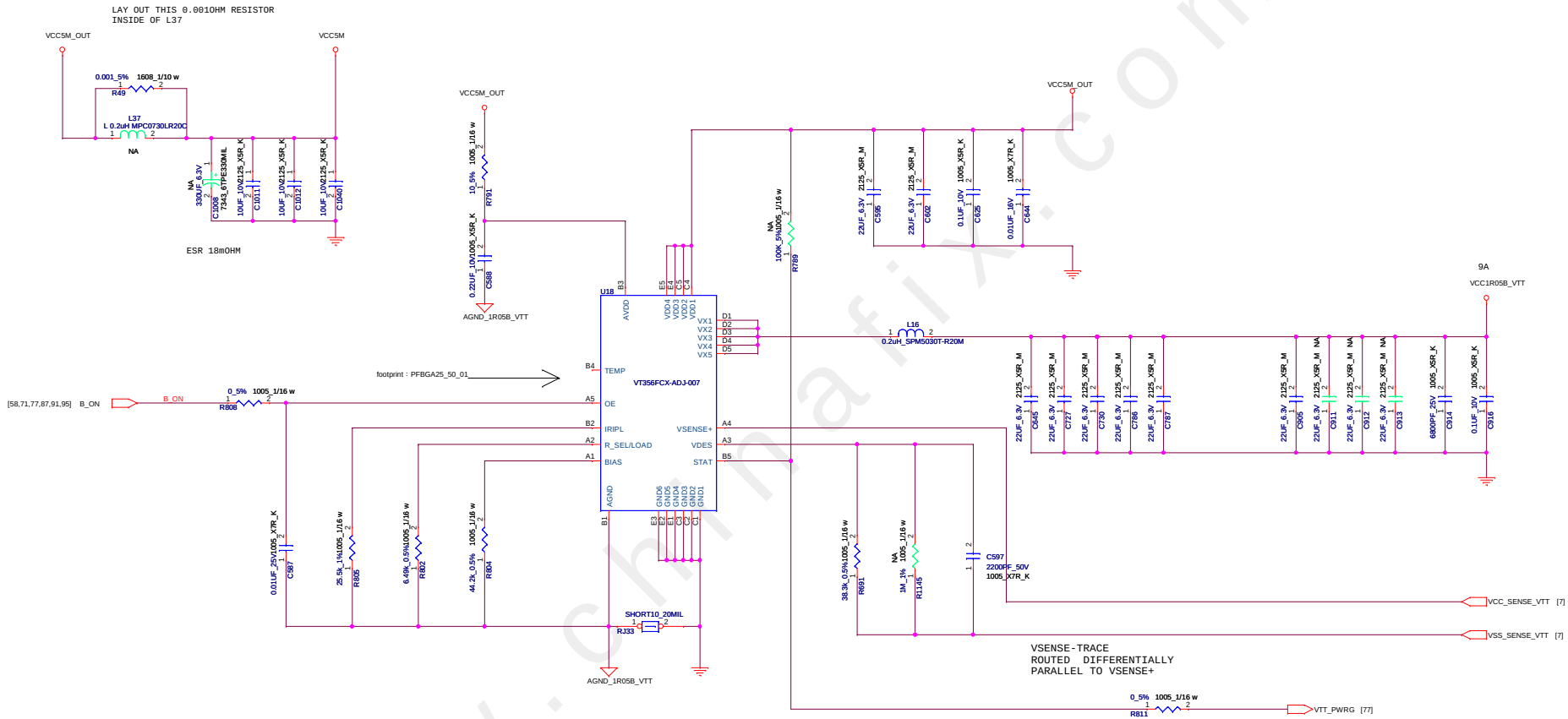
FLEX Computing

Project Name : H430UI1	Title : VCCCPUCORE DECOUPLING	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 82 of 99	

www.chinafix.com

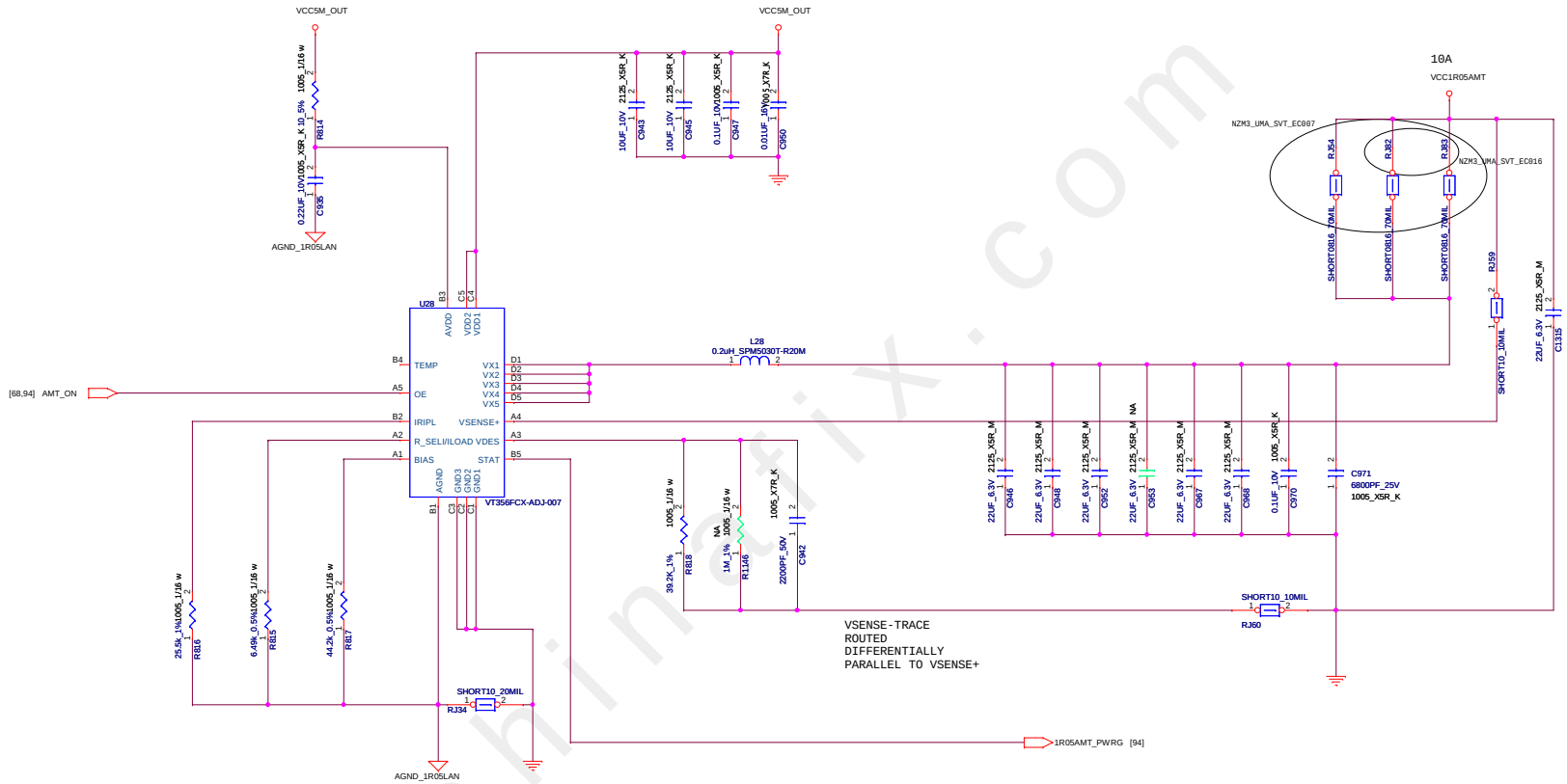
FLEX Computing

Project Name : H430UI1	Title : BLANK	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 83 of 99	



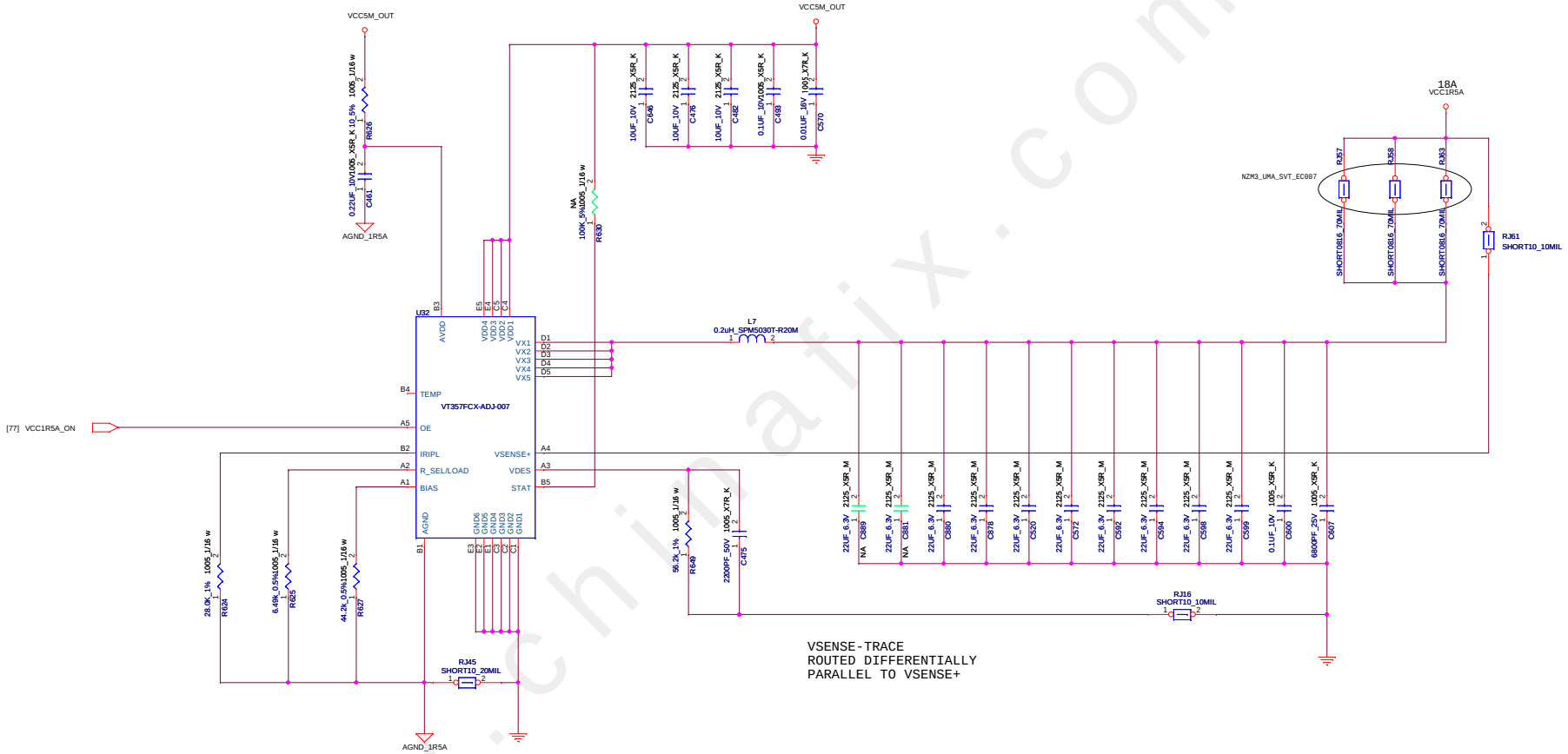
www.chinafix.com

FLEX Computing			
Project Name : H430UI1	Title : DC/DC VCC1R05B_VTT		
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 84 of 99	



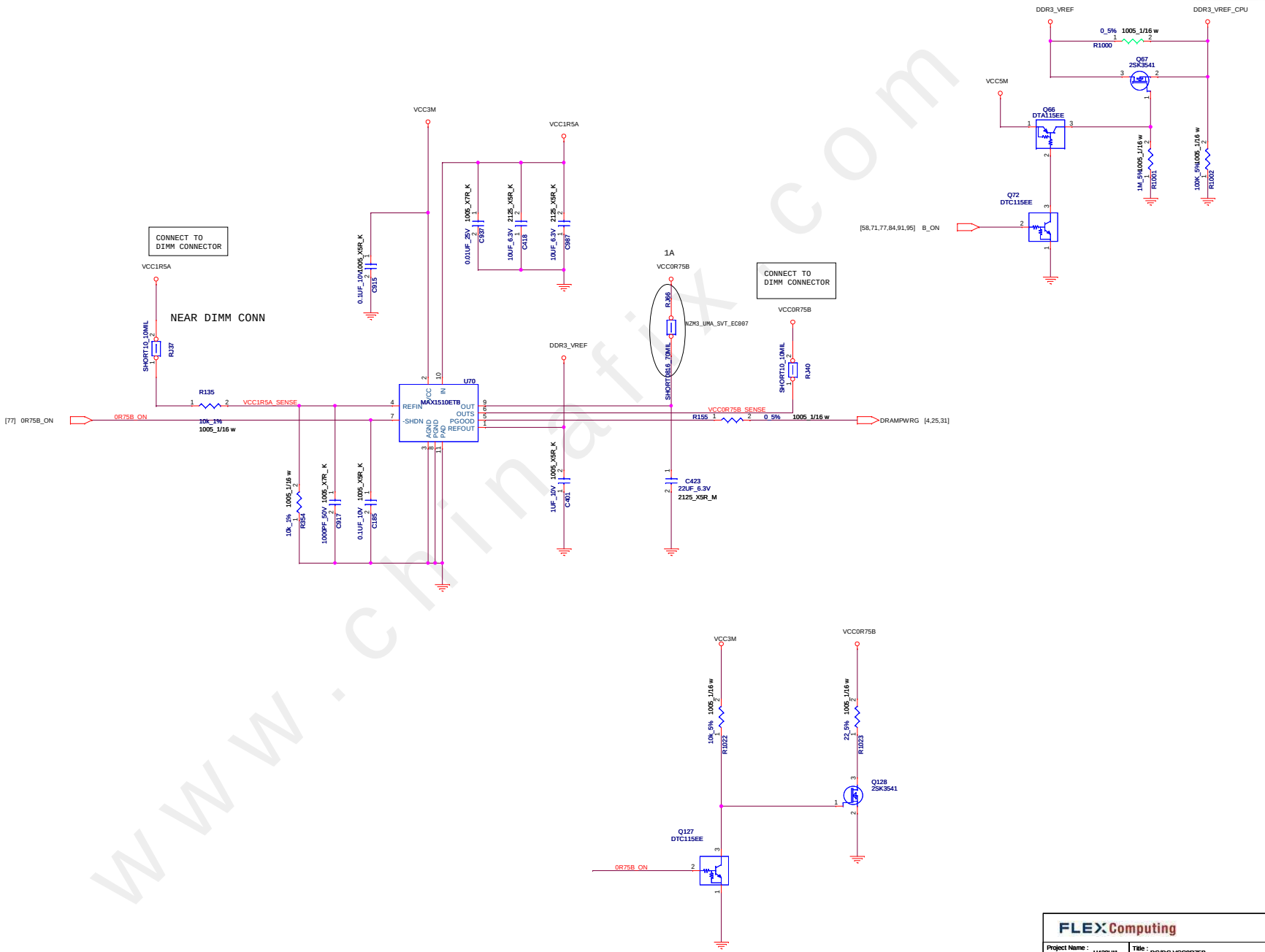
www.chinafix.com

FLEX Computing		
Project Name : H430UI1	Title : DC/DC VCC1R05AMT	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 85 of 99	



www.chinafix.com

FLEX Computing			
Project Name : H430UI1	Title : DC/DC VCC1R5A		
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 86 of 99	

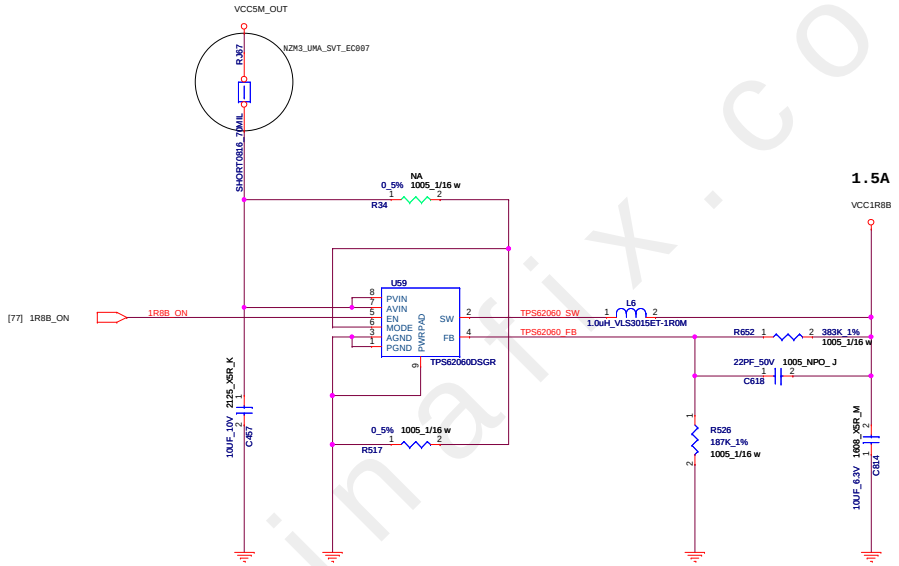


www.chinafix.com

FLEXComputing		
Project Name : H430UI1	Title : DC/DC VCC0R75B	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 87 of 99	

www.chinafix.com

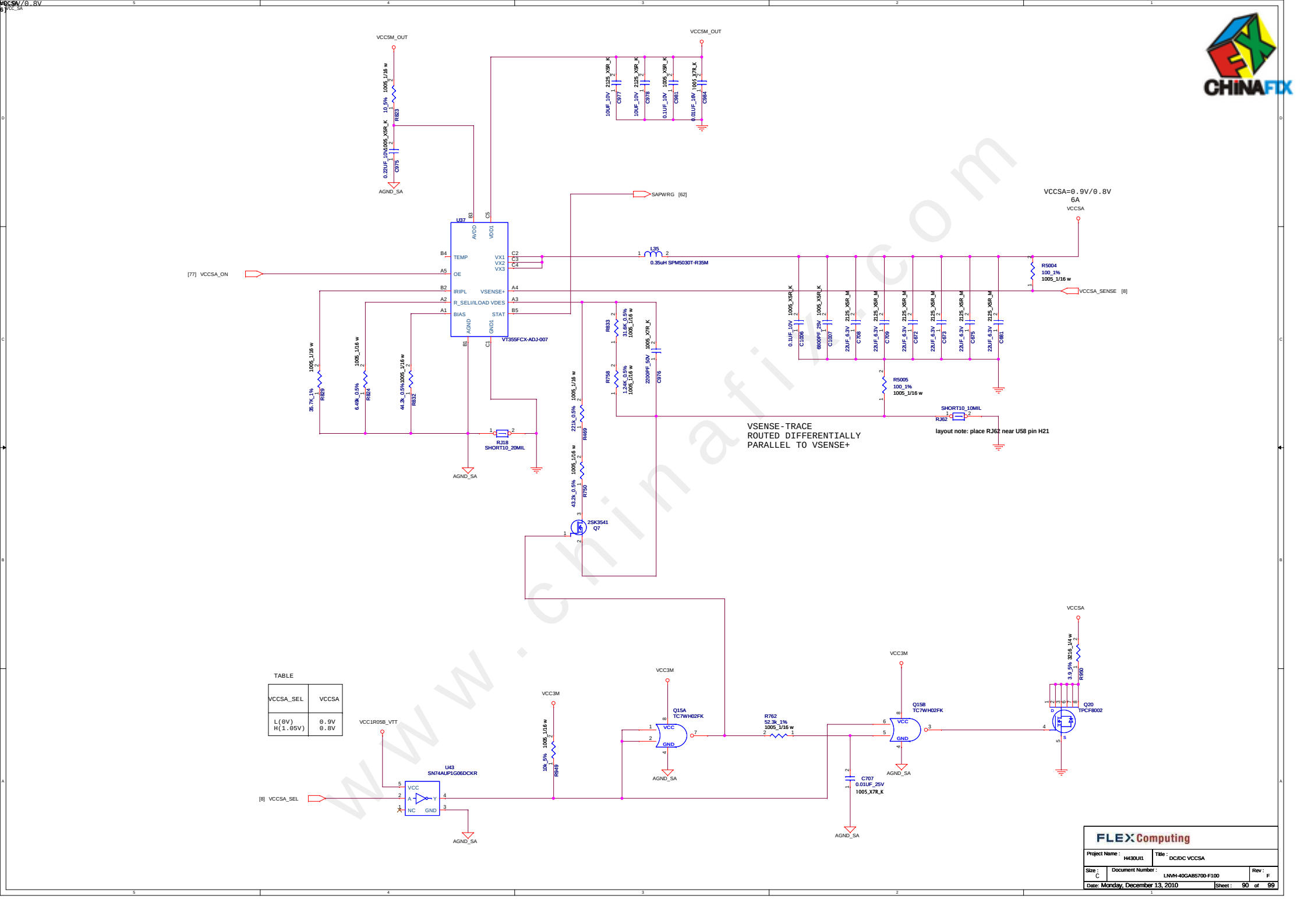
FLEX Computing			
Project Name : H430UI1		Title : BLANK	
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 88 of 99	

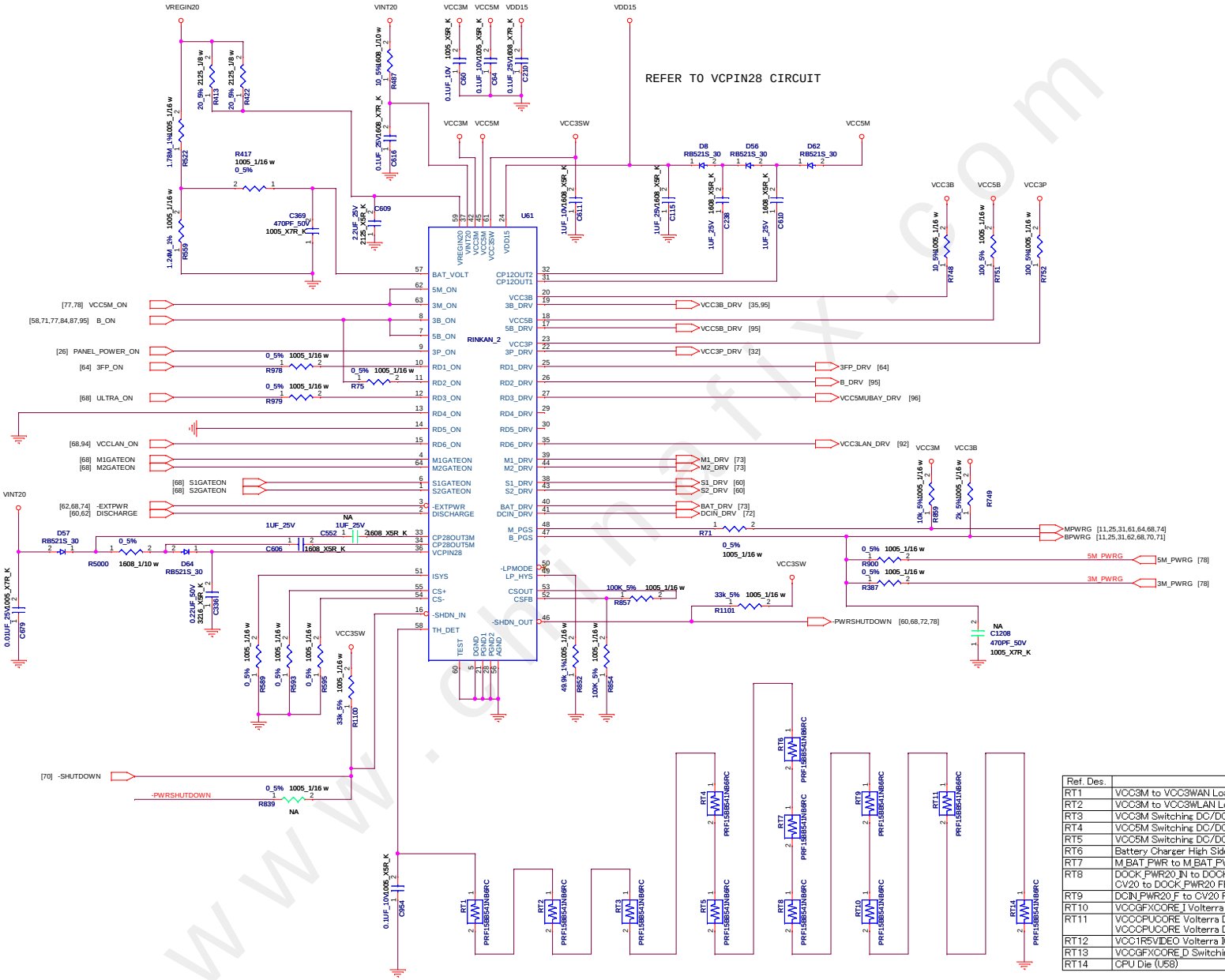


www.chinafix.com

FLEX Computing

Project Name : H430UI1	Title : DC/DC VCC1R8B	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 89 of 99	


VCCSA=0.9V/0.8V
6A
VCCSA
VCC5M_OUT
SAPWRG [62]
[77] VCCSA_ON
U37
VT355FCX-ADJ-007
L35
0.35uH SPM5030T-R35M
R5004
100_1%
1005_1/16 w
VCCSA_SENSE [8]
R5005
100_1%
1005_1/16 w
SHORT10_10MIL
RJ62
layout note: place RJ62 near U58 pin H21
RJ18
SHORT10_20MIL
2SK3541
Q7
VSENSE-TRACE
ROUTED DIFFERENTIALLY
PARALLEL TO VSENSE+
AGND_SA
VCC3M
VCC1R05B_VTT
U43
SN74AUP1G06DCKR
[8] VCCSA_SEL
Q15A
TC7WH02FK
Q15B
TC7WH02FK
Q20
TPCF8002
R762
52.3k_1%
1005_1/16 w
C707
0.01UF_25V
1005_X7R_K
TABLE
VCCSA_SEL
VCCSA
L(0V)
H(1.05V)
0.9V
0.8V
FLEX Computing
Project Name : H430UI1
Title : DC/DC VCCSA
Size : C
Document Number : LNVH-40GAB5700-F100
Rev : F
Date: Monday, December 13, 2010
Sheet : 90 of 99

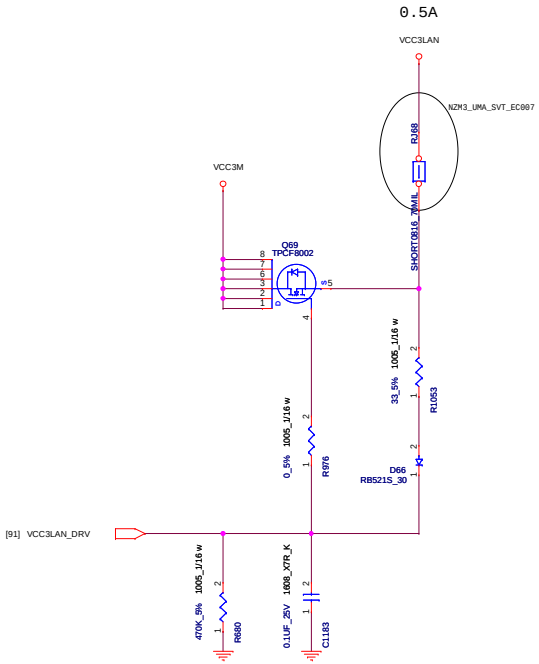


Ref. Des.	Target
RT1	VCC3M to VCC3WAN Load Switch (Q94)
RT2	VCC3M to VCC3WLAN Load Switch (Q100)
RT3	VCC3M Switching DC/DC High/Low Side FET (Q18/Q17)
RT4	VCC5M Switching DC/DC High Side FET (Q2/Q16)
RT5	VCC5M Switching DC/DC Low Side FET (Q6/Q46)
RT6	Battery Charger High Side FET (Q4)
RT7	M_BAT_PWR to M_BAT_PWR_A FET (Q8)
RT8	DOCK_PWR20_IN to DOCK_PWR20 FET (Q85) CV20 to DOCK_PWR20 FET (Q36)
RT9	DCIN_PWR20_F to CV20 FET (Q9)
RT10	VCCGFXCORE_I Volterra Driver IC VT1317S (U25)
RT11	VCCCPUCORE Volterra Driver IC VT1317S Phase 1 (U16) VCCCPUCORE Volterra Driver IC VT1317S Phase 2 (U19)
RT12	VCC1R5VIDEO Volterra IC VT356 (U66)
RT13	VCCGFXCORE_D Switching DC/DC High/Low Side FET (Q40/Q95)
RT14	CPU Die (U58)

FLEX Computing

Project Name : H430UI1	Title : DC/DC RINKAN-2	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 91 of 99	

www.chinafix.com



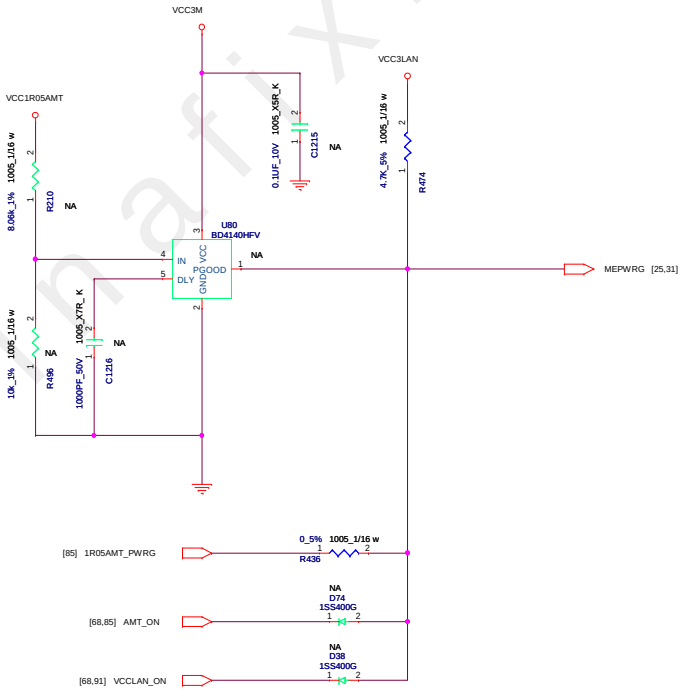
www.chinafix.com

FLEX Computing		
Project Name : H430UI1	Title : LOAD SW LAN	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 92 of 99	

www.chinafix.com

FLEX Computing

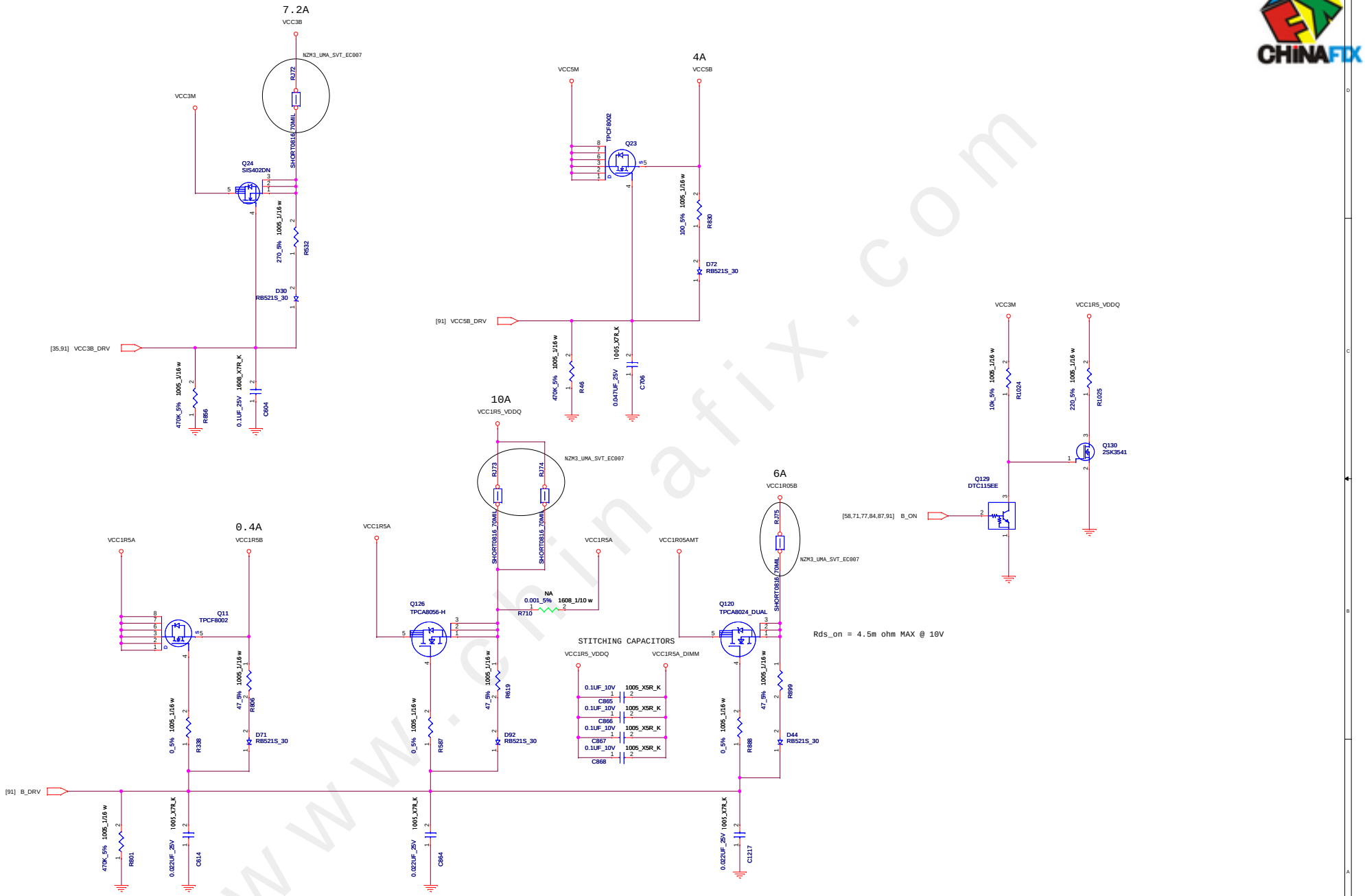
Project Name : H430UI1		Title : BLANK	
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 93 of 99	



www.chinafix.com

FLEX Computing

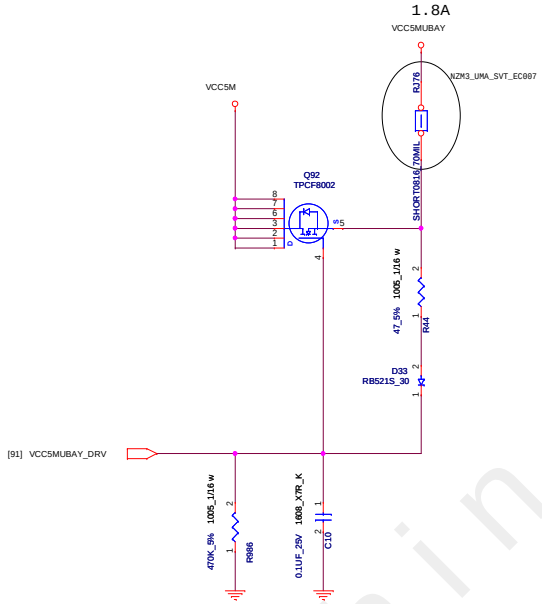
Project Name : H430UI1	Title : MEPWRG	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 94 of 99	



www.chinafix.com

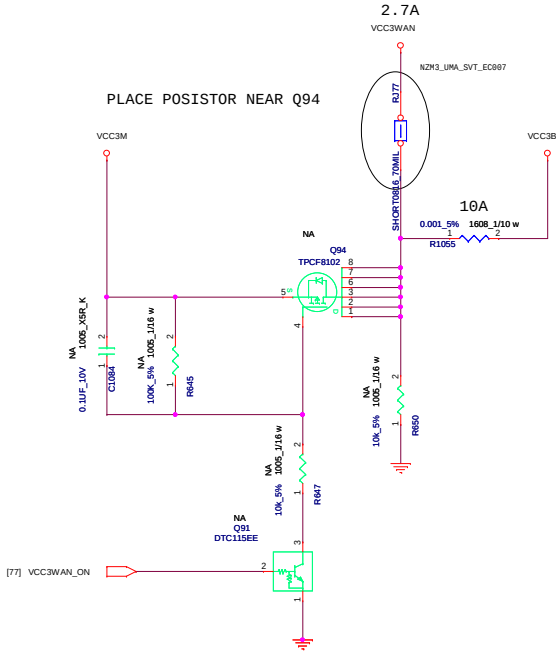
FLEX Computing

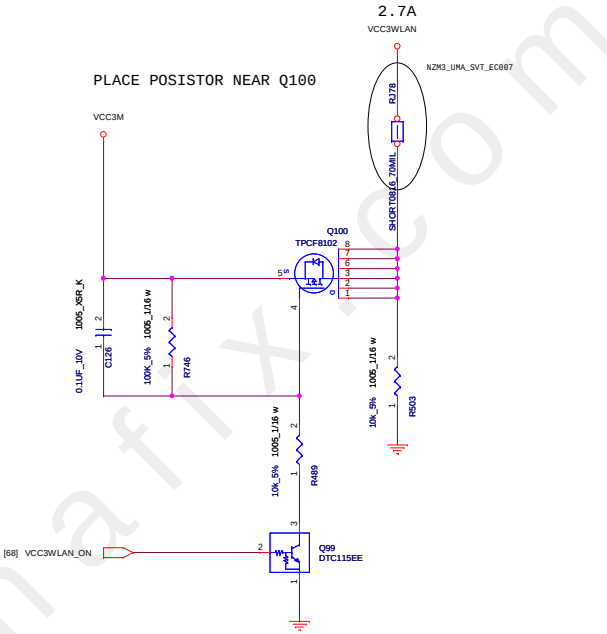
Project Name : H430UI1	Title : LOAD SW B
Size : C	Document Number : LNVH-40GAB5700-F100
Rev : F	
Date: Monday, December 13, 2010	Sheet : 95 of 99



www.chinafix.com

FLEX Computing			
Project Name : H430UI1	Title : LOAD SW VCC5MUBAY		
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 96 of 99	





TABLE

CONSTANT SECURE	YES	NO
R1055	NO_ASM	ASM
Q94	ASM	NO-ASM
R650	ASM	NO-ASM
R645	ASM	NO-ASM
C1084	ASM	NO-ASM
R647	ASM	NO-ASM
Q91	ASM	NO-ASM

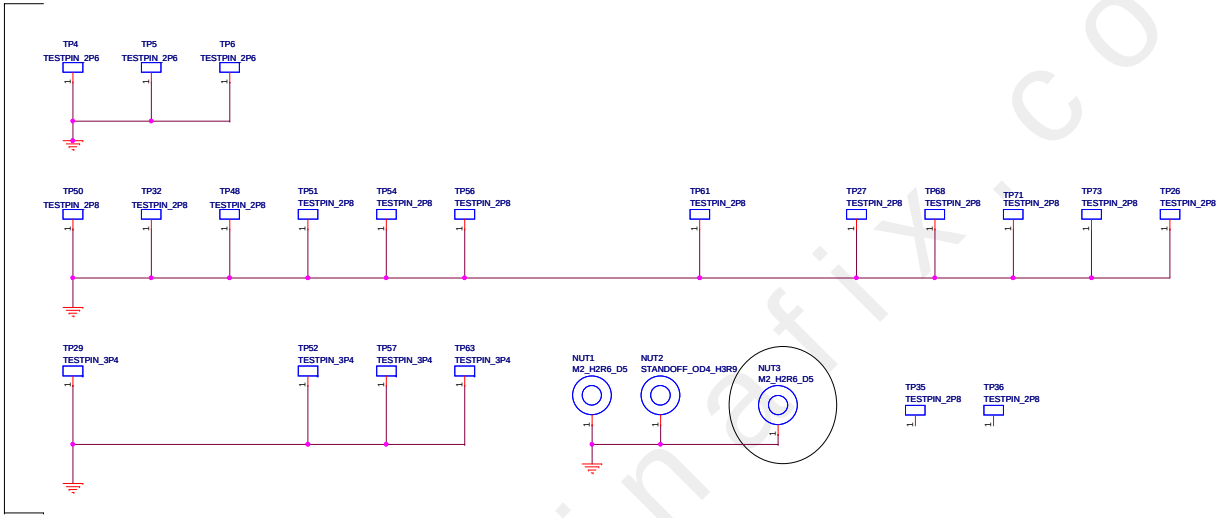
LOGIC

www.chinafix.com

FLEX Computing

Project Name : H430UI1	Title : LOAD SW WAN & WLAN	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 97 of 99	

PTH FOR SCREW HOLE



NPTH

FID
Board Area

FD1 NC, NO CONNECT TO ANY.
FD2 NC, NO CONNECT TO ANY.
FD3 NC, NO CONNECT TO ANY.
FD4 NC, NO CONNECT TO ANY.
FD5 NC, NO CONNECT TO ANY.
FD6 NC, NO CONNECT TO ANY.

LAYER_MARK1
10_LAYERS
LAYER_1-10

FID
Component Area

CF1 NC, NO CONNECT TO ANY.
CF2 NC, NO CONNECT TO ANY.
CF3 NC, NO CONNECT TO ANY.
CF4 NC, NO CONNECT TO ANY.
CF5 NC, NO CONNECT TO ANY.
CF6 NC, NO CONNECT TO ANY.
CF7 NC, NO CONNECT TO ANY.
CF8 NC, NO CONNECT TO ANY.
CF9 NC, NO CONNECT TO ANY.
CF10 NC, NO CONNECT TO ANY.
CF11 NC, NO CONNECT TO ANY.
CF12 NC, NO CONNECT TO ANY.
CF13 NC, NO CONNECT TO ANY.
CF14 NC, NO CONNECT TO ANY.
CF15 NC, NO CONNECT TO ANY.
CF16 NC, NO CONNECT TO ANY.
CF17 NC, NO CONNECT TO ANY.
CF18 NC, NO CONNECT TO ANY.

FLEXComputing

Project Name : H430UI1	Title : PTH FOR SCREW HOLES	
Size : C	Document Number : LNVH-40GAB5700-F100	Rev : F
Date: Monday, December 13, 2010	Sheet : 98 of 99	

www.chinafix.com

www.chinafix.com

FLEX Computing

Project Name : H430UI1		Title : BLANK	
Size : C	Document Number : LNVH-40GAB5700-F100		Rev : F
Date: Monday, December 13, 2010		Sheet : 99 of 99	