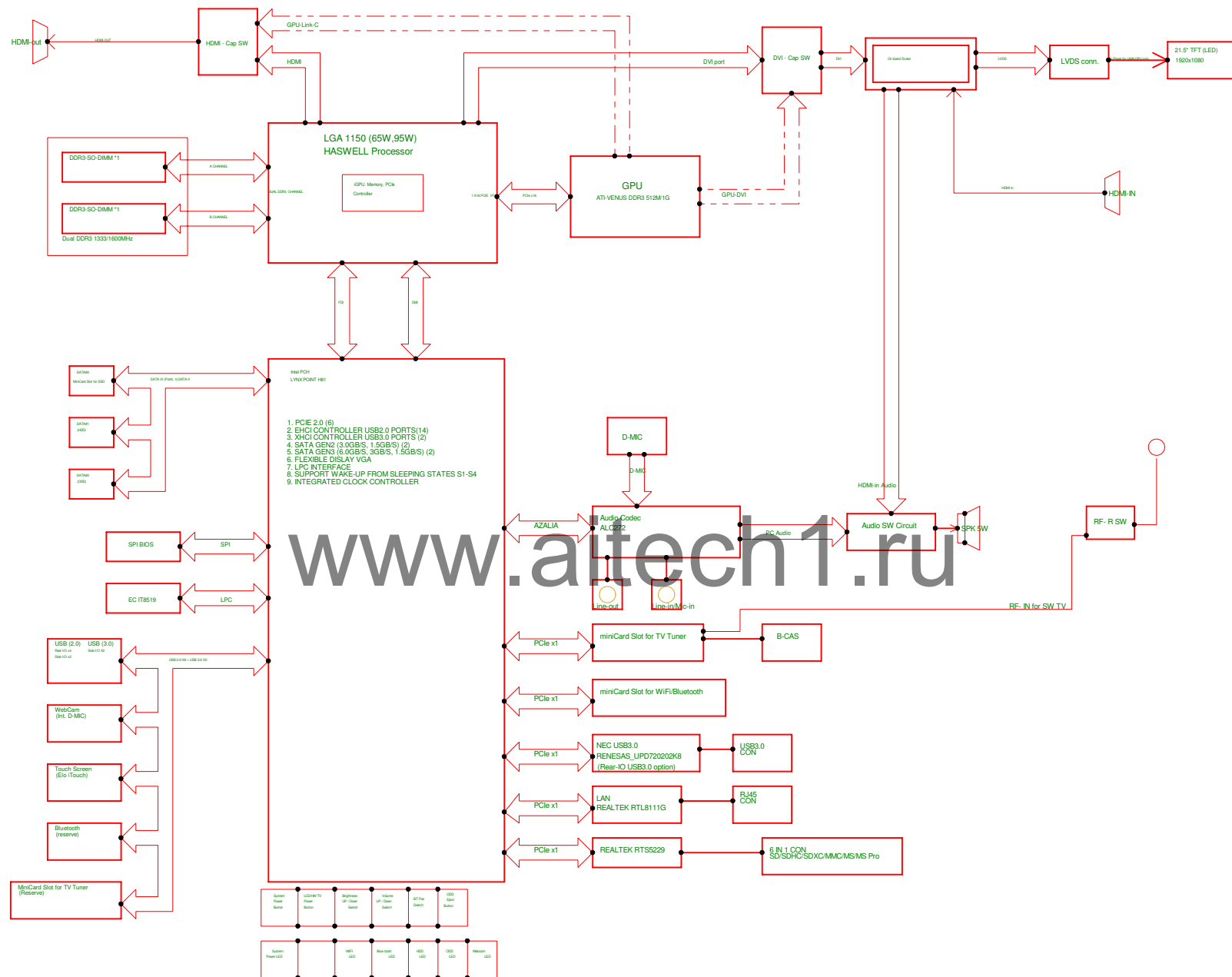


CONTENTS

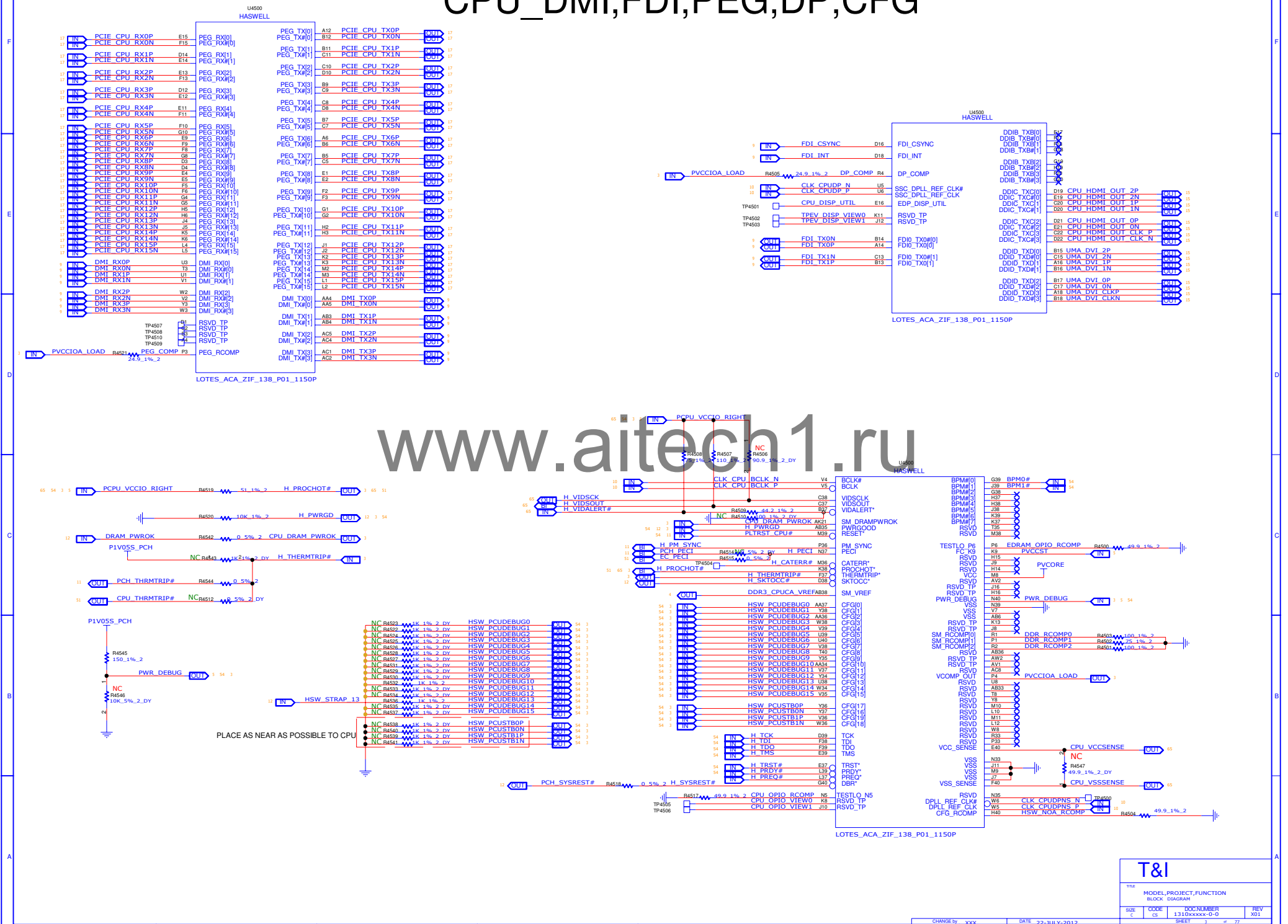
SCHEMATIC	SHEET
COVER SHEET	1
BLOCK DIAGRAM	2
LGA1150_DMI,FDI,PEG,DP,CFG	3
LGA1150_DIMM A&B	4
LGA1150_Power	5
LGA1150_GND	6
DDR3 DIMM MA-CH0 5.2mm	7
DDR3 DIMM MB-CH0 9.2mm	8
PCH FDI,DMI,USB,PCIE	9
PCH_HPDP/VGA, CLK BUFFER	10
PCH_HOST, SATA, PCI	11
PCH_HDA , SPI , LPC , MISC	12
PCH_PWR, GND	13
SPI ROM SYS	14
UMA option	15
GPU option	16
GFX-PCIE	17
GFX MAIN_VBIOS	18
GFX MEM	19
GFX POWER_GND	20
GFX LVDS DP XTAL	21
GFX STRAP THERMAL	22
GFX DDR CHA	23
GFX DDR CHB	24
Scalar TSUMU88MDT3-LF-1	25
Scalar TSUMU58ADT3-LF-1	26
Scalar Other	27
LVDS OUT	28
HDMI-IN CONN	29
HDMI-OUT CONN	30

SCHEMATIC	SHEET
w/o-HDMI-OUT	31
SATA SSD	32
SATA HDD	33
SATA ODD	34
Mini-PCI-Express (SW/TV)	35
Mini-PCI-Express (WLAN)	36
Giga LAN (RTL8111G) & RJ45	37
Card Reader (RTS5227)	38
Webcam	39
Bluetooth	40
Touch Screen	41
side USB CONNx2	42
Rear USB3.0 x2 (NEC)	43
Rear USB2.0 x2 (option)	44
Rear USB CONN x4	45
Audio Codec (ALC272)	46
Audio Switch for HDMI-IN	47
Audio Switch for w/o HDMI-IN	48
Audio AMP (ALC113)	49
Audio Connector	50
EC (IT8519)	51
Fan CPU/GPU	52
PC_ON, TK, FL	53
XDP connector	54
Controller 1@	55
Controller 2, +5VDUAL@	56
Discharge Circuit	57
Power_for HDMI-IN	58
Power_for w/o_HDMI-IN	59
OTHER SWITCH,+V12S	60

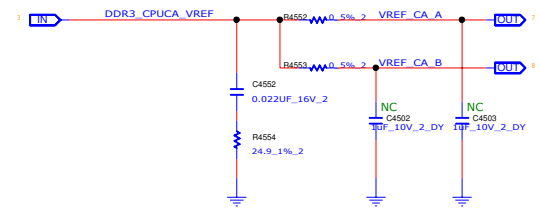
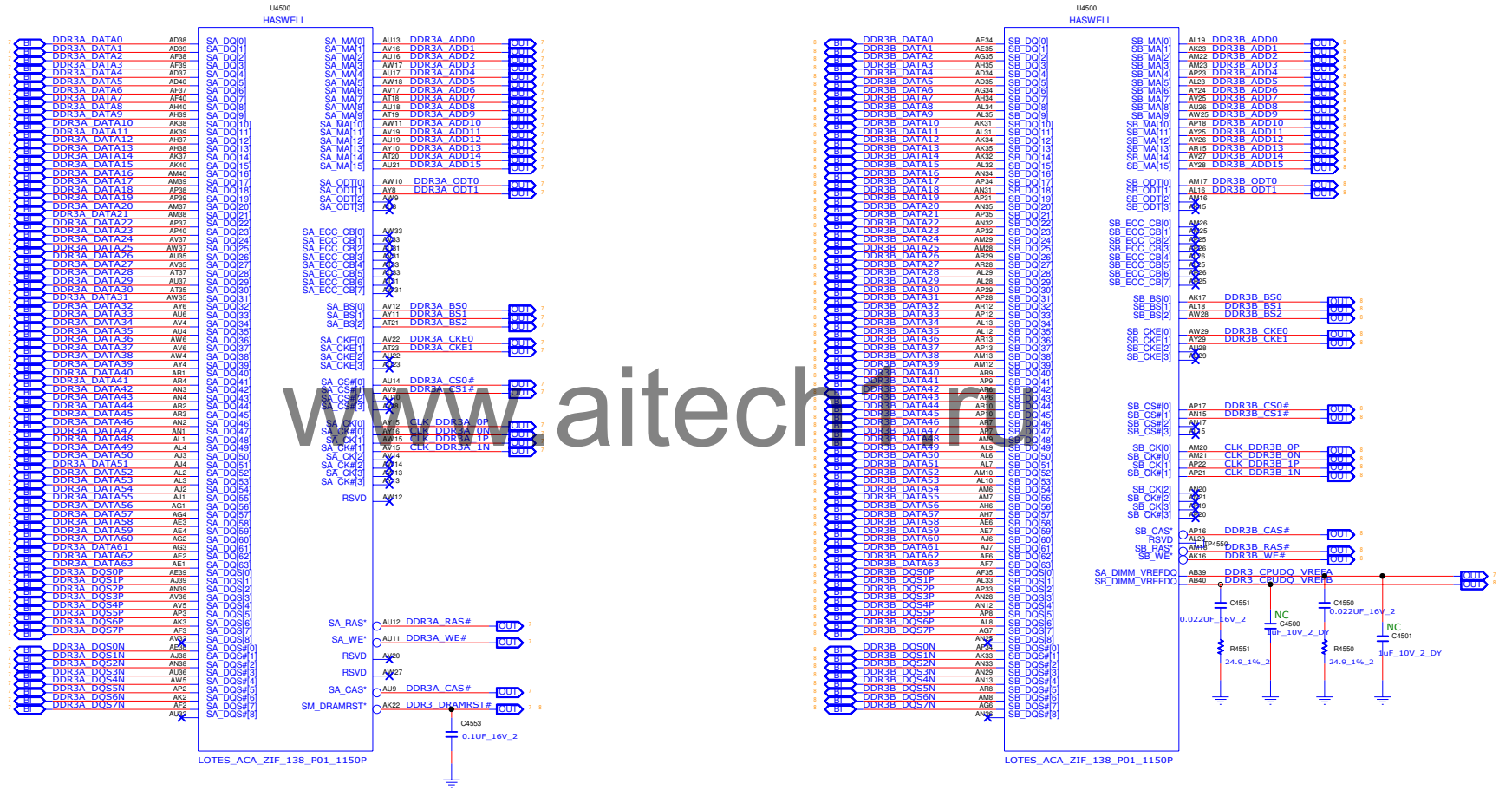
SCHEMATIC	SHEET
SYSTEM +V5,+V3.3 (P)	61
+1.5VDIMM,+0.75VTT (P)	62
VCC1_05_PCH (P)	63
LDO POWER (P)	64
NCP81102 1/3 (P)	65
NCP81102_MOS 2/3 (P)	66
NCP81102_MOS 3/3 (P)	67
ATI_VRAM (P)	68
ATI_0.95V_0.9V (P)	69
ATI_VDDC_25W (P)	70
ATI_OTHER POWER (P)	71
	72
	73
	74
	75
	76
	77
	78
	79
	80
	81
	82
	83
	84
	85
	86
	87
	88
	89
	90



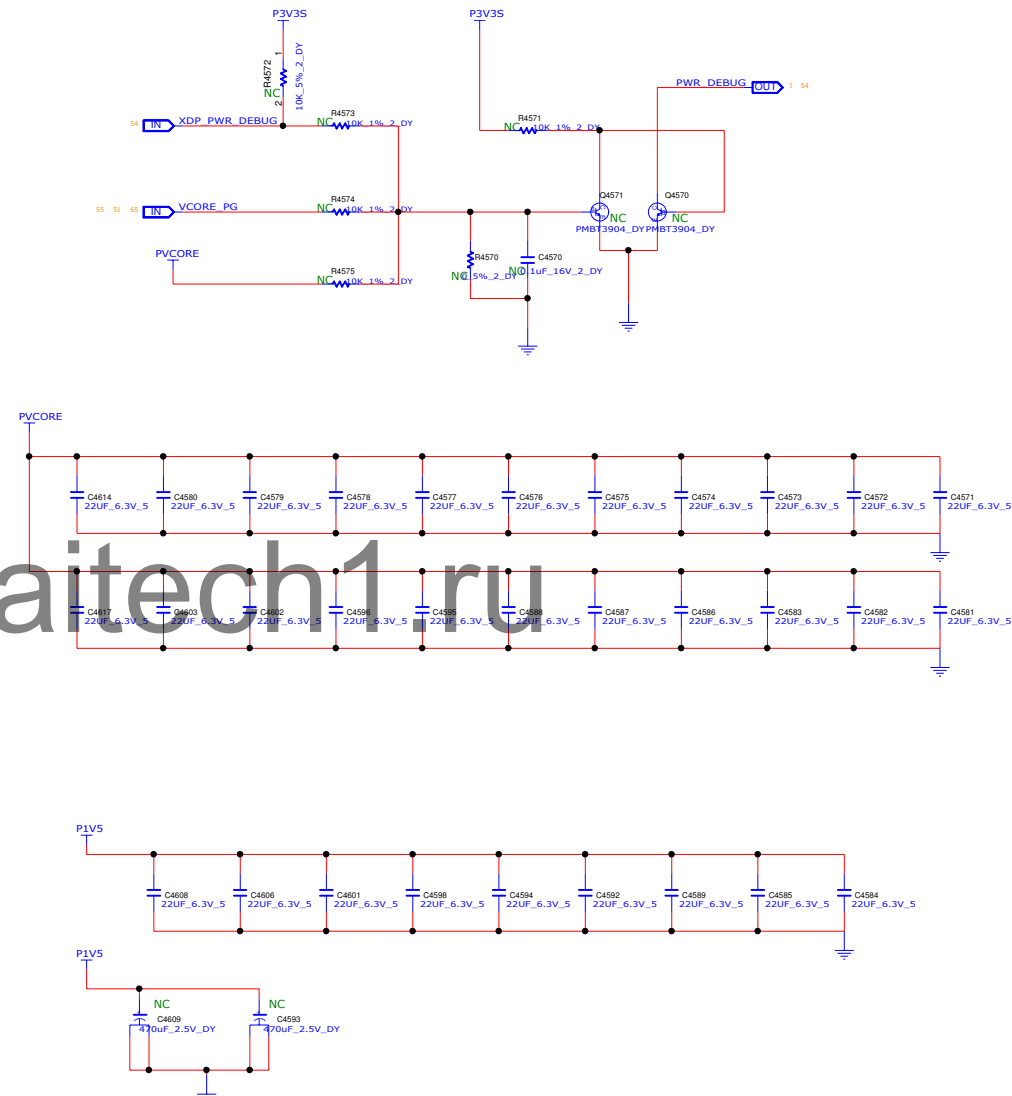
CPU_DMI,FDI,PEG,DP,CFG



CPU DDR3 A&B



The image shows a detailed PCB layout for a multi-layer board. On the left, a vertical stack of components is labeled: VCC, K23, VCC, K25, VCC, K27, VCC, K29, VCC, K31, VCC, K33, VCC, K35, VCC, K37, VCC, K39, VCC, K41, VCC, K43, VCC, K45, VCC, K47, VCC, K49, VCC, K51, VCC, K53, VCC, K55, VCC, K57, VCC, K59, VCC, K61, VCC, K63, VCC, K65, VCC, K67, VCC, K69, VCC, K71, VCC, K73, VCC, K75, VCC, K77, VCC, K79, VCC, K81, VCC, K83, VCC, K85, VCC, K87, VCC, K89, VCC, K91, VCC, K93, VCC, K95, VCC, K97, VCC, K99, VCC, K101, VCC, K103, VCC, K105, VCC, K107, VCC, K109, VCC, K111, VCC, K113, VCC, K115, VCC, K117, VCC, K119, VCC, K121, VCC, K123, VCC, K125, VCC, K127, VCC, K129, VCC, K131, VCC, K133, VCC, K135, VCC, K137, VCC, K139, VCC, K141, VCC, K143, VCC, K145, VCC, K147, VCC, K149, VCC, K151, VCC, K153, VCC, K155, VCC, K157, VCC, K159, VCC, K161, VCC, K163, VCC, K165, VCC, K167, VCC, K169, VCC, K171, VCC, K173, VCC, K175, VCC, K177, VCC, K179, VCC, K181, VCC, K183, VCC, K185, VCC, K187, VCC, K189, VCC, K191, VCC, K193, VCC, K195, VCC, K197, VCC, K199, VCC, K201, VCC, K203, VCC, K205, VCC, K207, VCC, K209, VCC, K211, VCC, K213, VCC, K215, VCC, K217, VCC, K219, VCC, K221, VCC, K223, VCC, K225, VCC, K227, VCC, K229, VCC, K231, VCC, K233, VCC, K235, VCC, K237, VCC, K239, VCC, K241, VCC, K243, VCC, K245, VCC, K247, VCC, K249, VCC, K251, VCC, K253, VCC, K255, VCC, K257, VCC, K259, VCC, K261, VCC, K263, VCC, K265, VCC, K267, VCC, K269, VCC, K271, VCC, K273, VCC, K275, VCC, K277, VCC, K279, VCC, K281, VCC, K283, VCC, K285, VCC, K287, VCC, K289, VCC, K291, VCC, K293, VCC, K295, VCC, K297, VCC, K299, VCC, K301, VCC, K303, VCC, K305, VCC, K307, VCC, K309, VCC, K311, VCC, K313, VCC, K315, VCC, K317, VCC, K319, VCC, K321, VCC, K323, VCC, K325, VCC, K327, VCC, K329, VCC, K331, VCC, K333, VCC, K335, VCC, K337, VCC, K339, VCC, K341, VCC, K343, VCC, K345, VCC, K347, VCC, K349, VCC, K351, VCC, K353, VCC, K355, VCC, K357, VCC, K359, VCC, K361, VCC, K363, VCC, K365, VCC, K367, VCC, K369, VCC, K371, VCC, K373, VCC, K375, VCC, K377, VCC, K379, VCC, K381, VCC, K383, VCC, K385, VCC, K387, VCC, K389, VCC, K391, VCC, K393, VCC, K395, VCC, K397, VCC, K399, VCC, K401, VCC, K403, VCC, K405, VCC, K407, VCC, K409, VCC, K411, VCC, K413, VCC, K415, VCC, K417, VCC, K419, VCC, K421, VCC, K423, VCC, K425, VCC, K427, VCC, K429, VCC, K431, VCC, K433, VCC, K435, VCC, K437, VCC, K439, VCC, K441, VCC, K443, VCC, K445, VCC, K447, VCC, K449, VCC, K451, VCC, K453, VCC, K455, VCC, K457, VCC, K459, VCC, K461, VCC, K463, VCC, K465, VCC, K467, VCC, K469, VCC, K471, VCC, K473, VCC, K475, VCC, K477, VCC, K479, VCC, K481, VCC, K483, VCC, K485, VCC, K487, VCC, K489, VCC, K491, VCC, K493, VCC, K495, VCC, K497, VCC, K499, VCC, K501, VCC, K503, VCC, K505, VCC, K507, VCC, K509, VCC, K511, VCC, K513, VCC, K515, VCC, K517, VCC, K519, VCC, K521, VCC, K523, VCC, K525, VCC, K527, VCC, K529, VCC, K531, VCC, K533, VCC, K535, VCC, K537, VCC, K539, VCC, K541, VCC, K543, VCC, K545, VCC, K547, VCC, K549, VCC, K551, VCC, K553, VCC, K555, VCC, K557, VCC, K559, VCC, K561, VCC, K563, VCC, K565, VCC, K567, VCC, K569, VCC, K571, VCC, K573, VCC, K575, VCC, K577, VCC, K579, VCC, K581, VCC, K583, VCC, K585, VCC, K587, VCC, K589, VCC, K591, VCC, K593, VCC, K595, VCC, K597, VCC, K599, VCC, K601, VCC, K603, VCC, K605, VCC, K607, VCC, K609, VCC, K611, VCC, K613, VCC, K615, VCC, K617, VCC, K619, VCC, K621, VCC, K623, VCC, K625, VCC, K627, VCC, K629, VCC, K631, VCC, K633, VCC, K635, VCC, K637, VCC, K639, VCC, K641, VCC, K643, VCC, K645, VCC, K647, VCC, K649, VCC, K651, VCC, K653, VCC, K655, VCC, K657, VCC, K659, VCC, K661, VCC, K663, VCC, K665, VCC, K667, VCC, K669, VCC, K671, VCC, K673, VCC, K675, VCC, K677, VCC, K679, VCC, K681, VCC, K683, VCC, K685, VCC, K687, VCC, K689, VCC, K691, VCC, K693, VCC, K695, VCC, K697, VCC, K699, VCC, K701, VCC, K703, VCC, K705, VCC, K707, VCC, K709, VCC, K711, VCC, K713, VCC, K715, VCC, K717, VCC, K719, VCC, K721, VCC, K723, VCC, K725, VCC, K727, VCC, K729, VCC, K731, VCC, K733, VCC, K735, VCC, K737, VCC, K739, VCC, K741, VCC, K743, VCC, K745, VCC, K747, VCC, K749, VCC, K751, VCC, K753, VCC, K755, VCC, K757, VCC, K759, VCC, K761, VCC, K763, VCC, K765, VCC, K767, VCC, K769, VCC, K771, VCC, K773, VCC, K775, VCC, K777, VCC, K779, VCC, K781, VCC, K783, VCC, K785, VCC, K787, VCC, K789, VCC, K791, VCC, K793, VCC, K795, VCC, K797, VCC, K799, VCC, K801, VCC, K803, VCC, K805, VCC, K807, VCC, K809, VCC, K811, VCC, K813, VCC, K815, VCC, K817, VCC, K819, VCC, K821, VCC, K823, VCC, K825, VCC, K827, VCC, K829, VCC, K831, VCC, K833, VCC, K835, VCC, K837, VCC, K839, VCC, K841, VCC, K843, VCC, K845, VCC, K847, VCC, K849, VCC, K851, VCC, K853, VCC, K855, VCC, K857, VCC, K859, VCC, K861, VCC, K863, VCC, K865, VCC, K867, VCC, K869, VCC, K871, VCC, K873, VCC, K875, VCC, K877, VCC, K879, VCC, K881, VCC, K883, VCC, K885, VCC, K887, VCC, K889, VCC, K891, VCC, K893, VCC, K895, VCC, K897, VCC, K899, VCC, K901, VCC, K903, VCC, K905, VCC, K907, VCC, K909, VCC, K911, VCC, K913, VCC, K915, VCC, K917, VCC, K919, VCC, K921, VCC, K923, VCC, K925, VCC, K927, VCC, K929, VCC, K931, VCC, K933, VCC, K935, VCC, K937, VCC, K939, VCC, K941, VCC, K943, VCC, K945, VCC, K947, VCC, K949, VCC, K951, VCC, K953, VCC, K955, VCC, K957, VCC, K959, VCC, K961, VCC, K963, VCC, K965, VCC, K967, VCC, K969, VCC, K971, VCC, K973, VCC, K975, VCC, K977, VCC, K979, VCC, K981, VCC, K983, VCC, K985, VCC, K987, VCC, K989, VCC, K991, VCC, K993, VCC, K995, VCC, K997, VCC, K999, VCC, K1001, VCC, K1003, VCC, K1005, VCC, K1007, VCC, K1009, VCC, K1011, VCC, K1013, VCC, K1015, VCC, K1017, VCC, K1019, VCC, K1021, VCC, K1023, VCC, K1025, VCC, K1027, VCC, K1029, VCC, K1031, VCC, K1033, VCC, K1035, VCC, K103



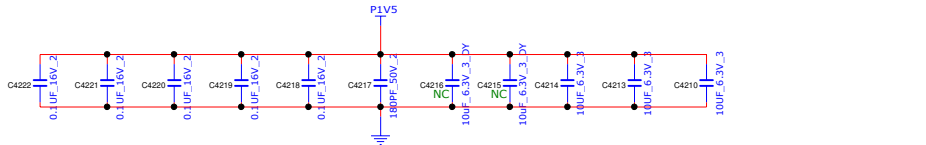
A	B	C	D	E	F
---	---	---	---	---	---



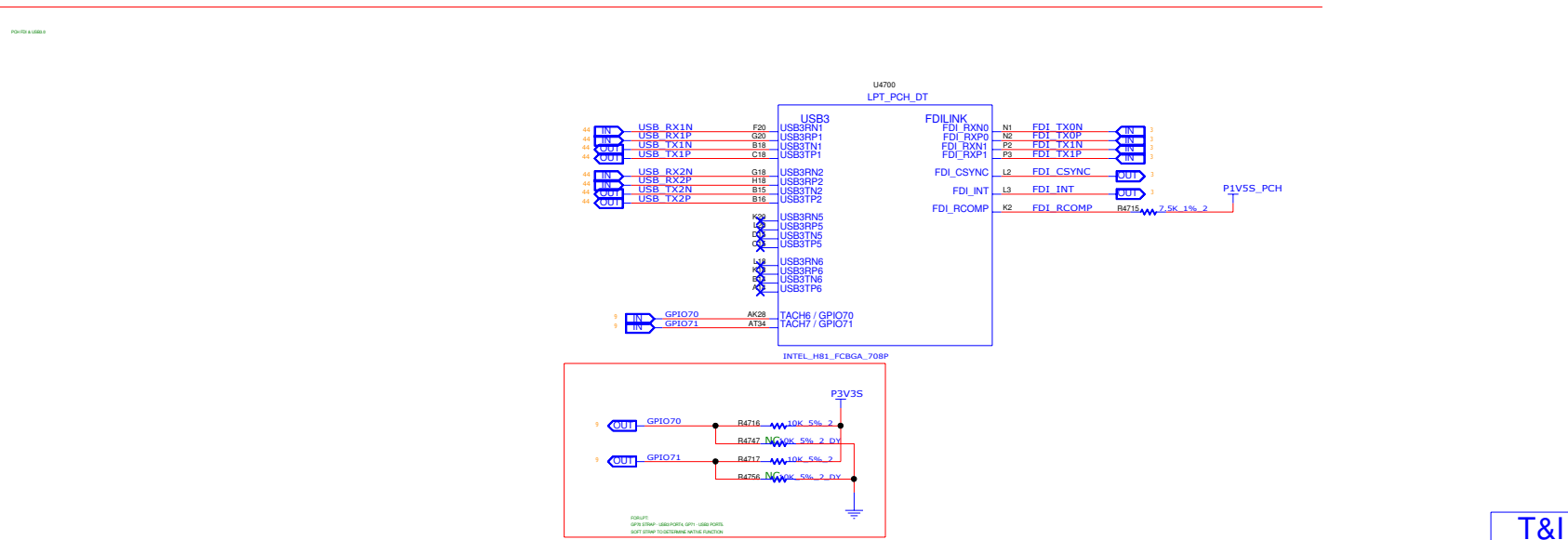
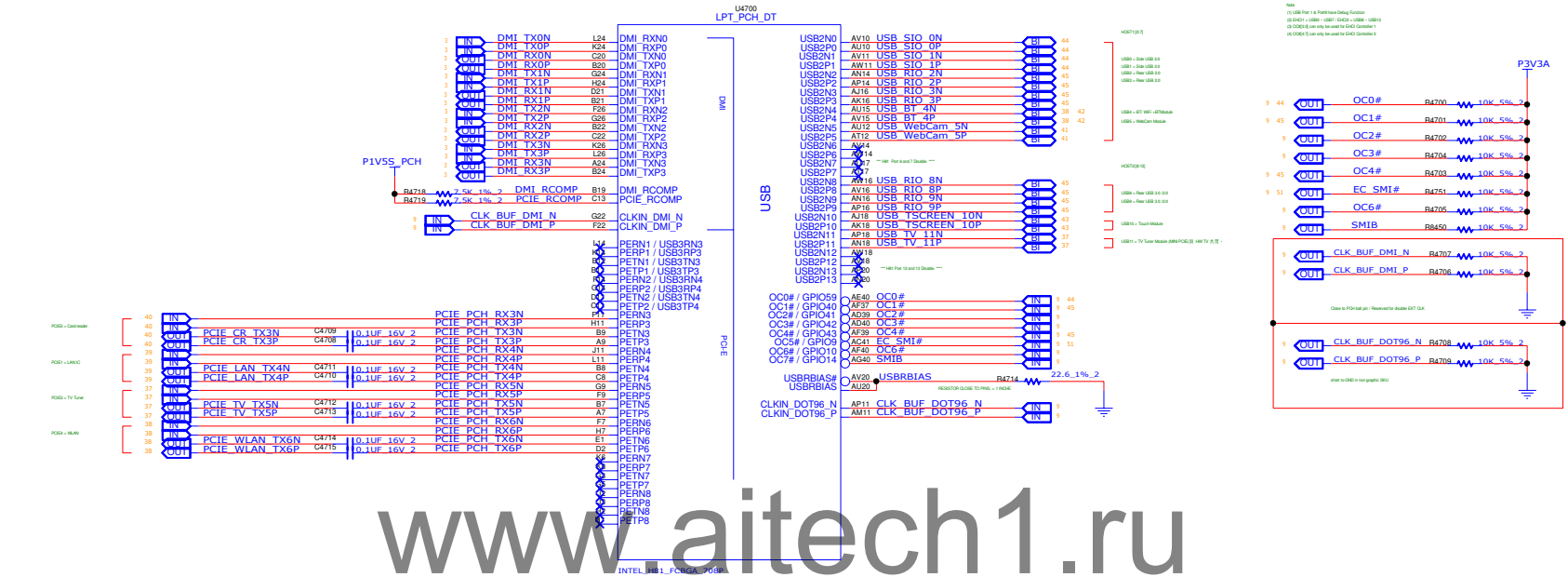
<div style="text-align: center; font-size: 2em; font-weight: bold;">T&I</div>			
TITLE			
MODEL,PROJECT,FUNCTION BLOCK DIAGRAM			
SIZE C	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
SHEET 5 of 77			

1

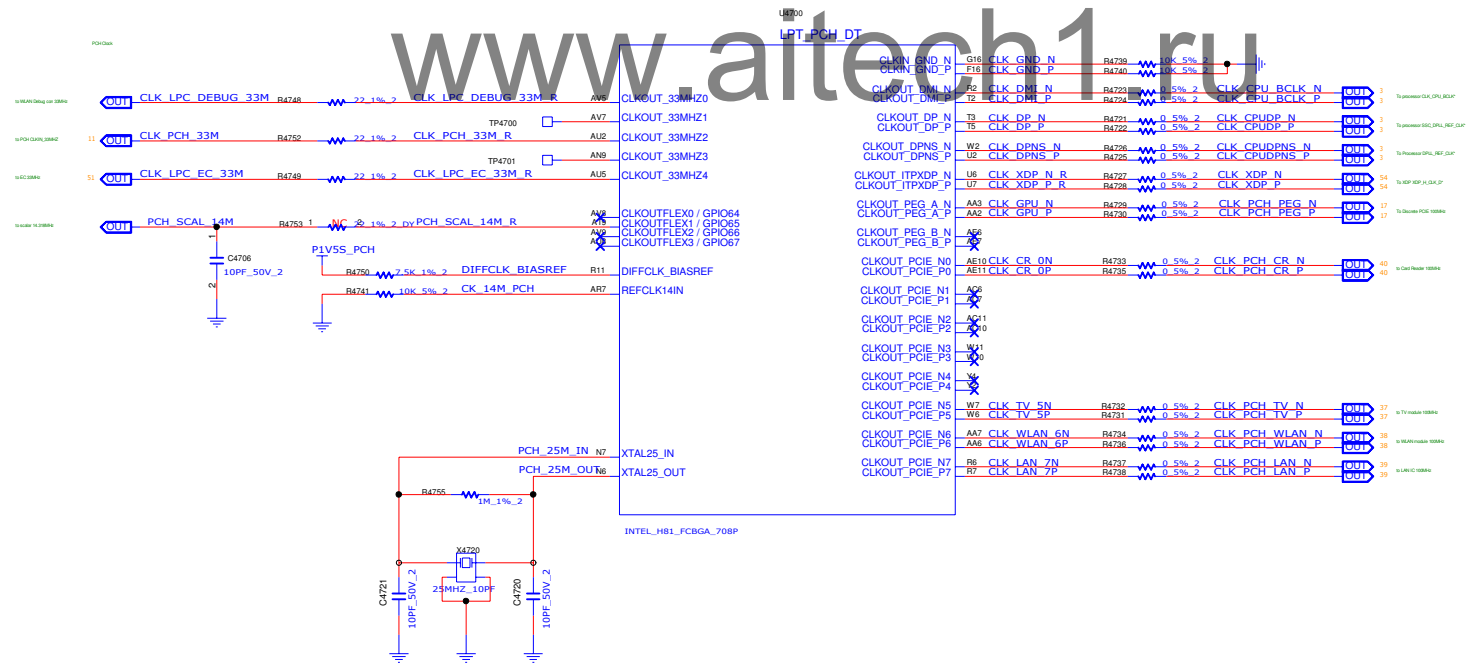




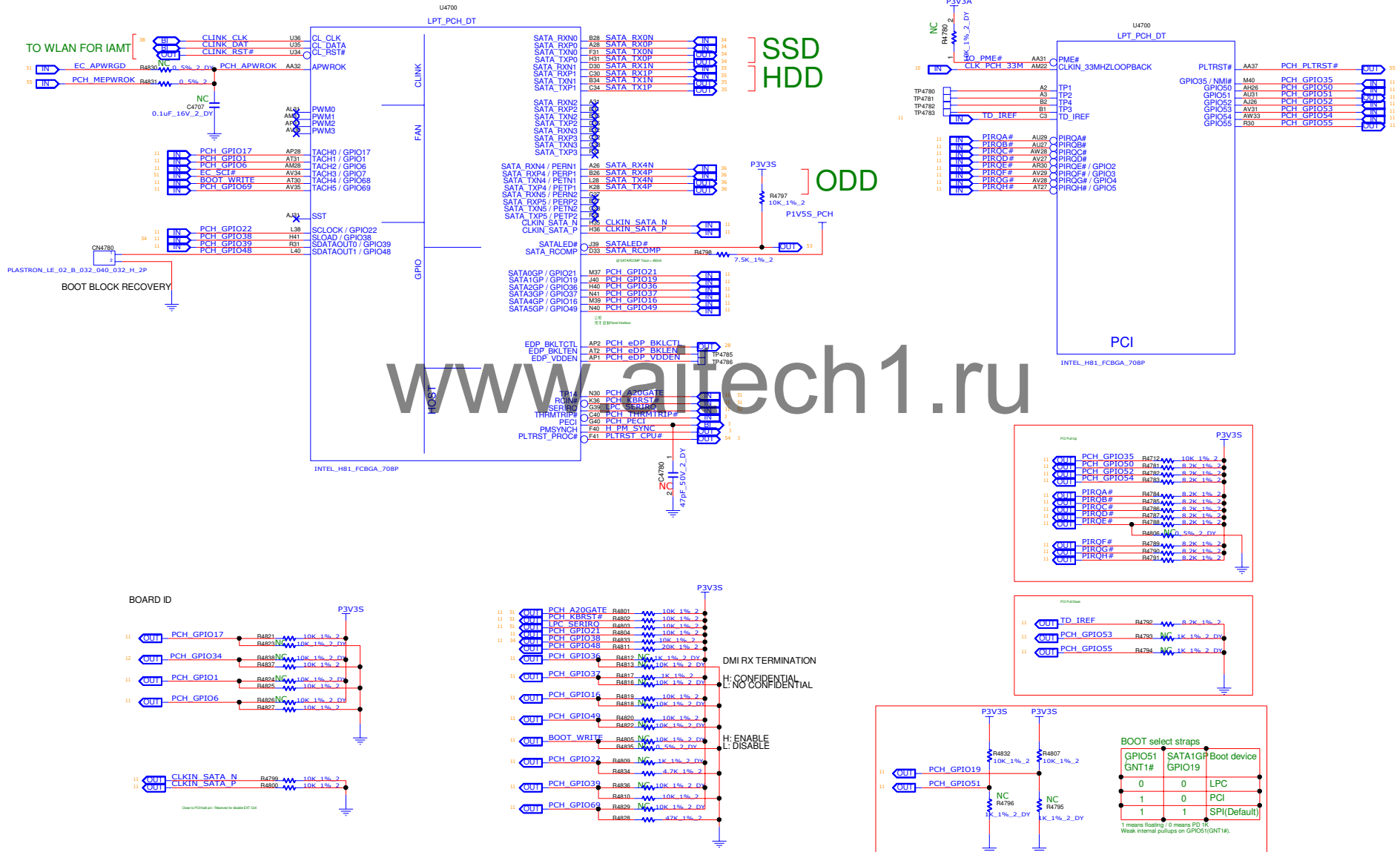
PCH FDI,DMI,USB,PCIE



T&I			
MODEL/PROJECT/FUNCTION			
BLOCK DIAGRAM			
SIZE	CODE	DOC NUMBER	REV
C	CS	1310XXXXX-0-0	X01
SHEET		9	97



PCH_HOST, SATA, PCI



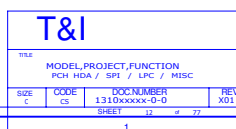
T&I

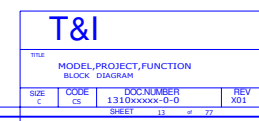
TITLE			
MODEL,PROJECT,FUNCTION			
BLOCK DIAGRAM			
SIZE	CODE	DOC NUMBER	REV
E	CS	1310XXXXX-0-0	X01
SHEET		31	of 77

CHANGE BY: yxy DATE: 22-JULY-2012

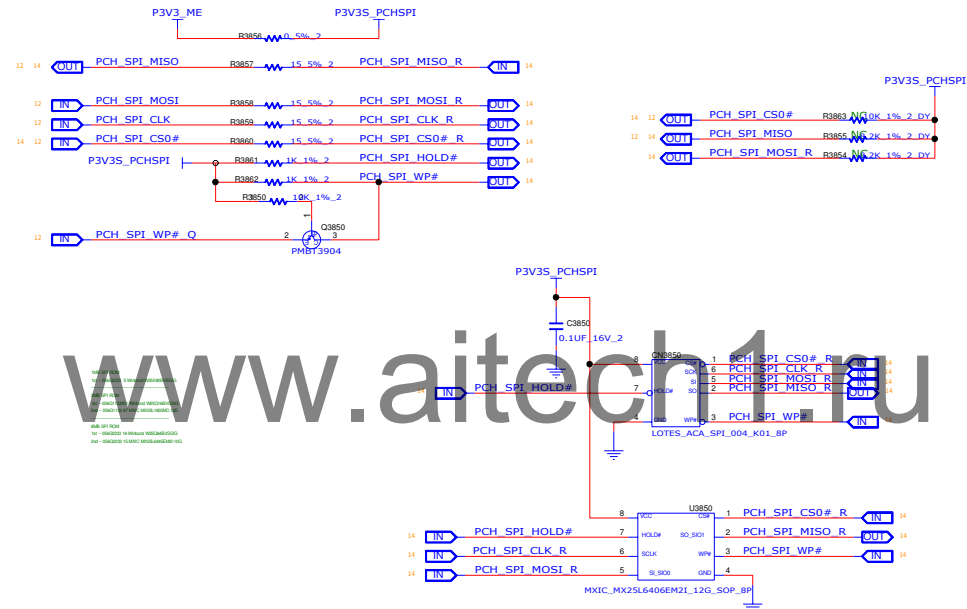
www.aitech1.ru

Intel H81 Board 2015





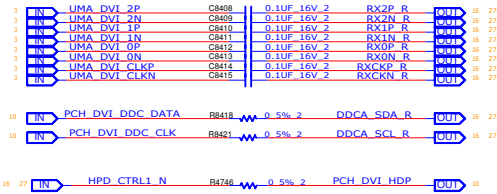
6008 SPI ROM



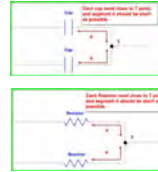
TITLE			
MODEL,PROJECT,FUNCTION BLOCK DIAGRAM			
SIZE C	CODE CS	DOC NUMBER 1310xxxxxx-0-0	REV X01
SHEET 14 of 77			

UMA OPTION

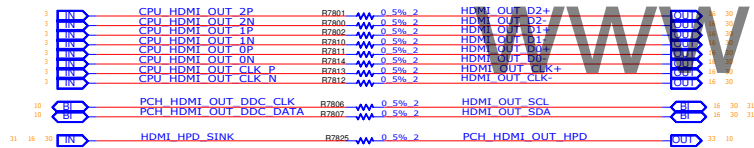
To Scalar



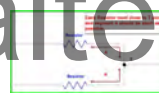
Layout note:



HDMI OUT



Layout note:



For GPU DVI disable

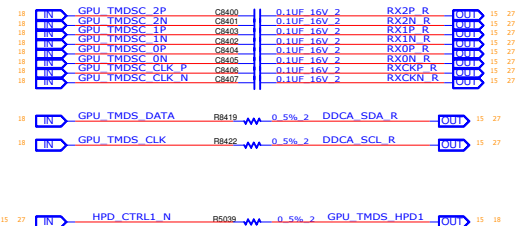


T&I

TITLE			
MODEL,PROJECT,FUNCTION BLOCK DIAGRAM			
SIZE	CODE	DOC NUMBER	REV
C	CS	1310XXXX-0-0	X01
SHEET		35	of 37

GPU OPTION

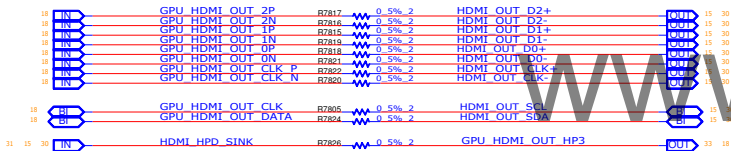
To Scalar



Layout note:



HDMI OUT



Layout note:



T&I

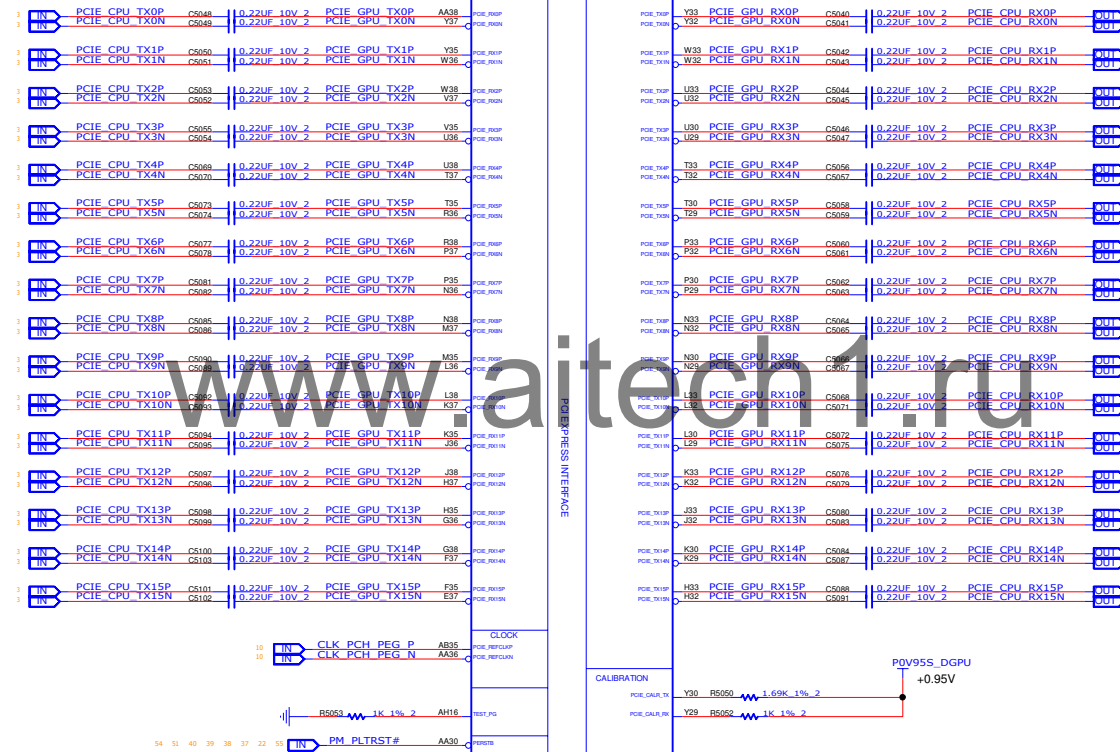
TITLE			
MODEL,PROJECT,FUNCTION BLOCK DIAGRAM			
SIZE	CODE	DOC NUMBER	REV
C	CS	1310XXXX-0-0	X01
SHEET		36	of 77

Layout note:

Each cap place to close to GPU U5000

U5000

PART 1 OF 9



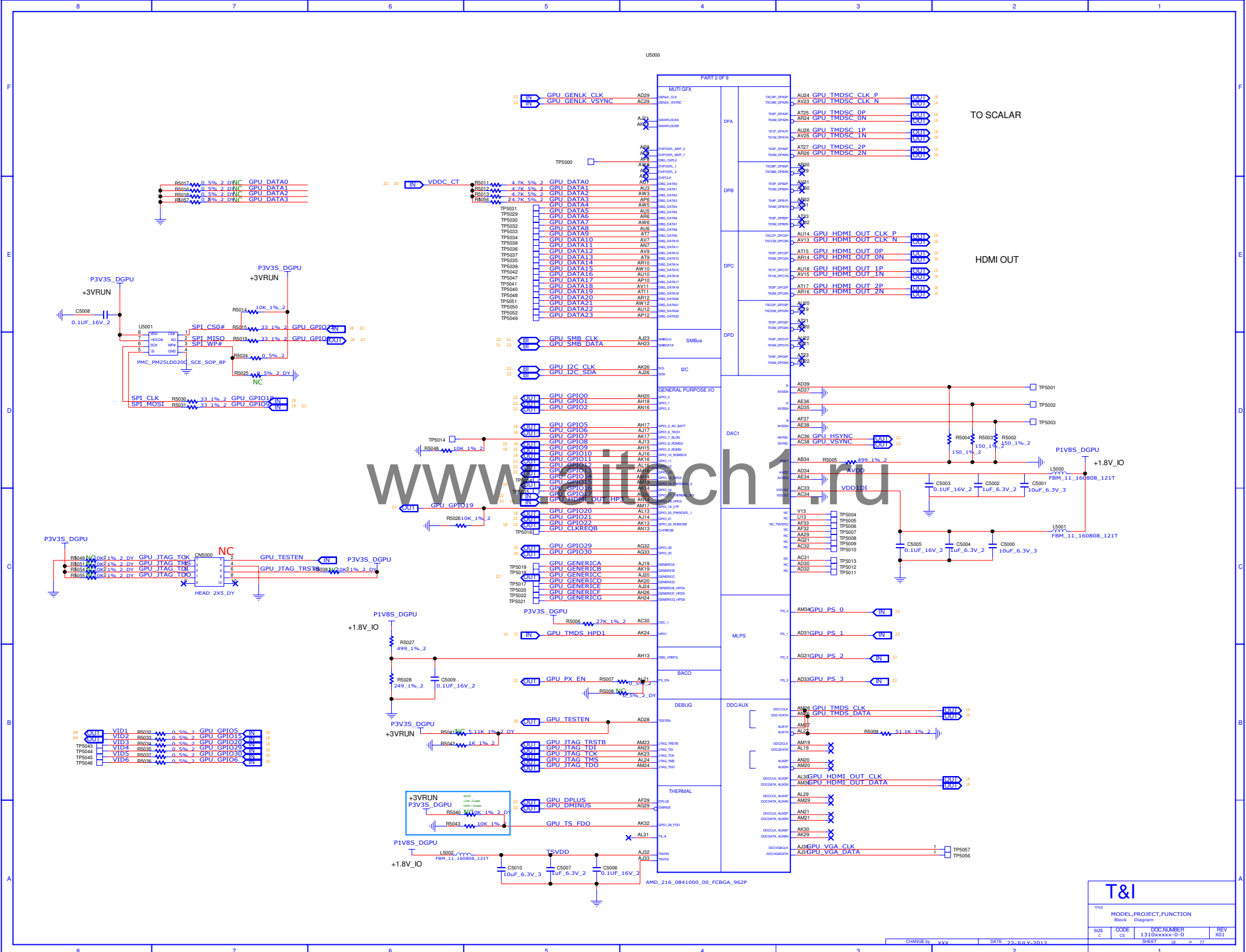
AMD_216_0B41000_00_FCBGA_962P

T&I

Title			
MODEL, PROJECT, FUNCTION			
Block Diagram			
SIZE	CODE	DOC NUMBER	REV
C	CS	1310XXXXX-0-0	X01
SHEET		37	of 77

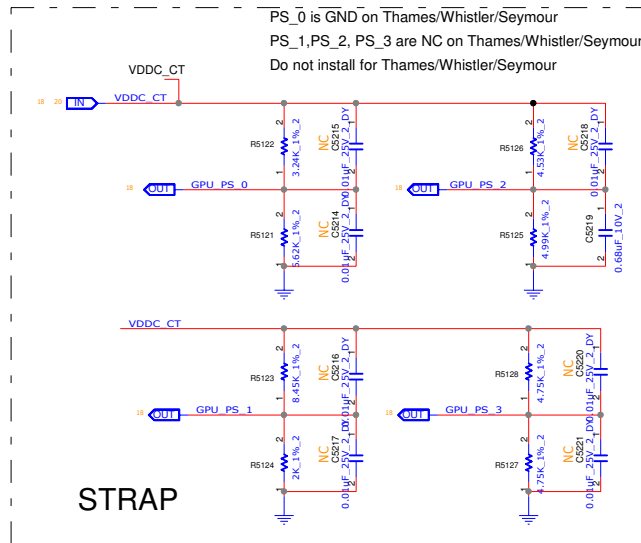
CHANGE BY: yxy DATE: 22-JULY-2012

www.mitch.ru



T&I				
TITLE MODEL/PROJECT/FUNCTION				
Block Diagram				
SIZE	CODE	DOC NUMBER	REV	
E	ES	1310XXXXX-0-0	X01	
SHEET			38	of 77

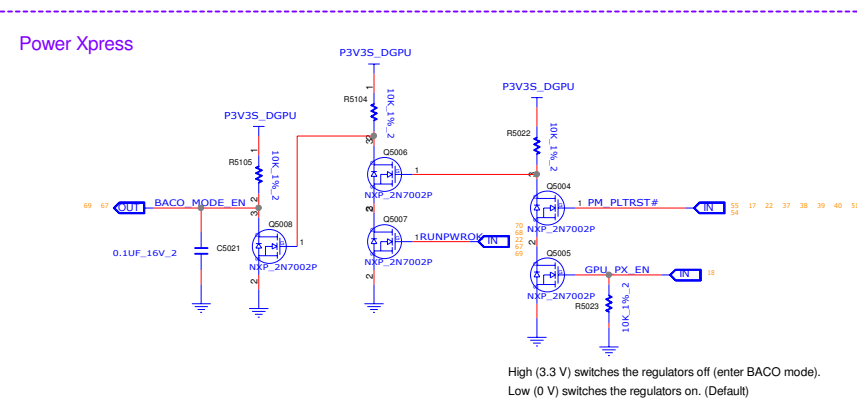
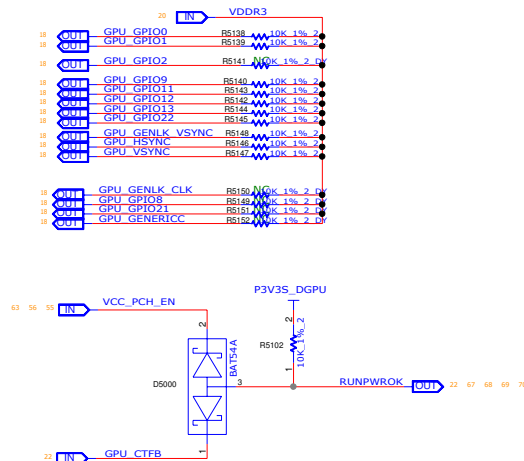
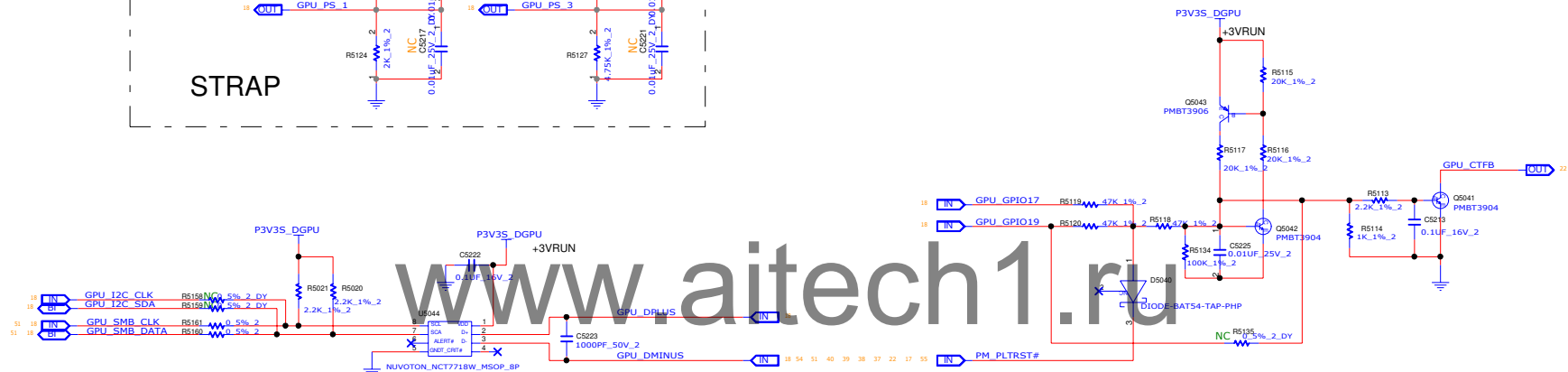
CHANGE by: yxyx DATE: 22-JULY-2012



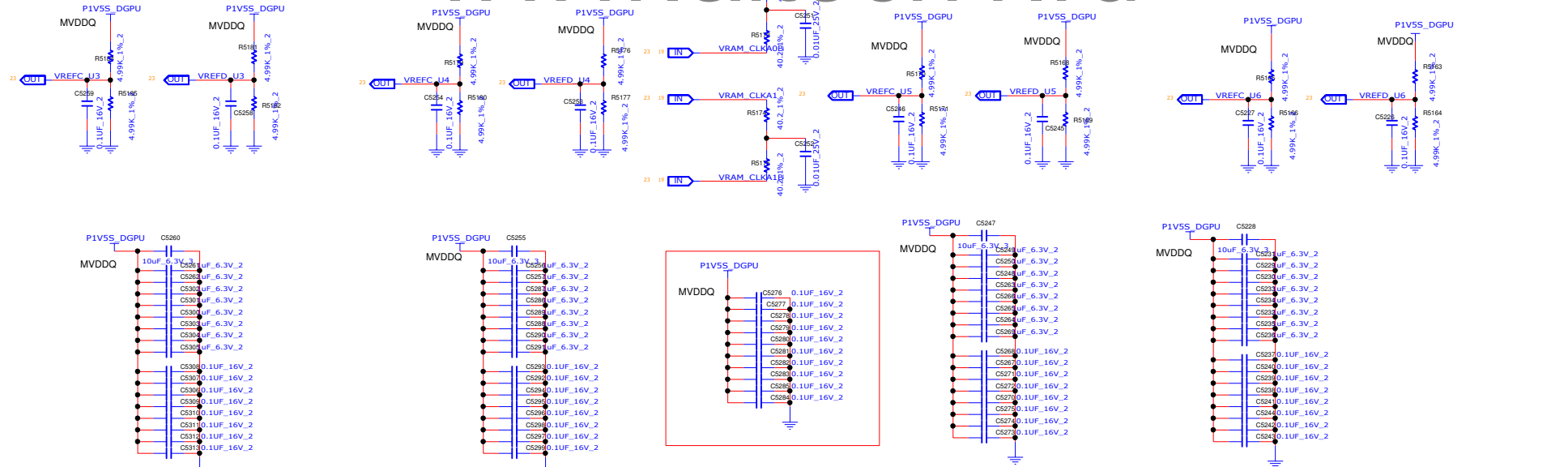
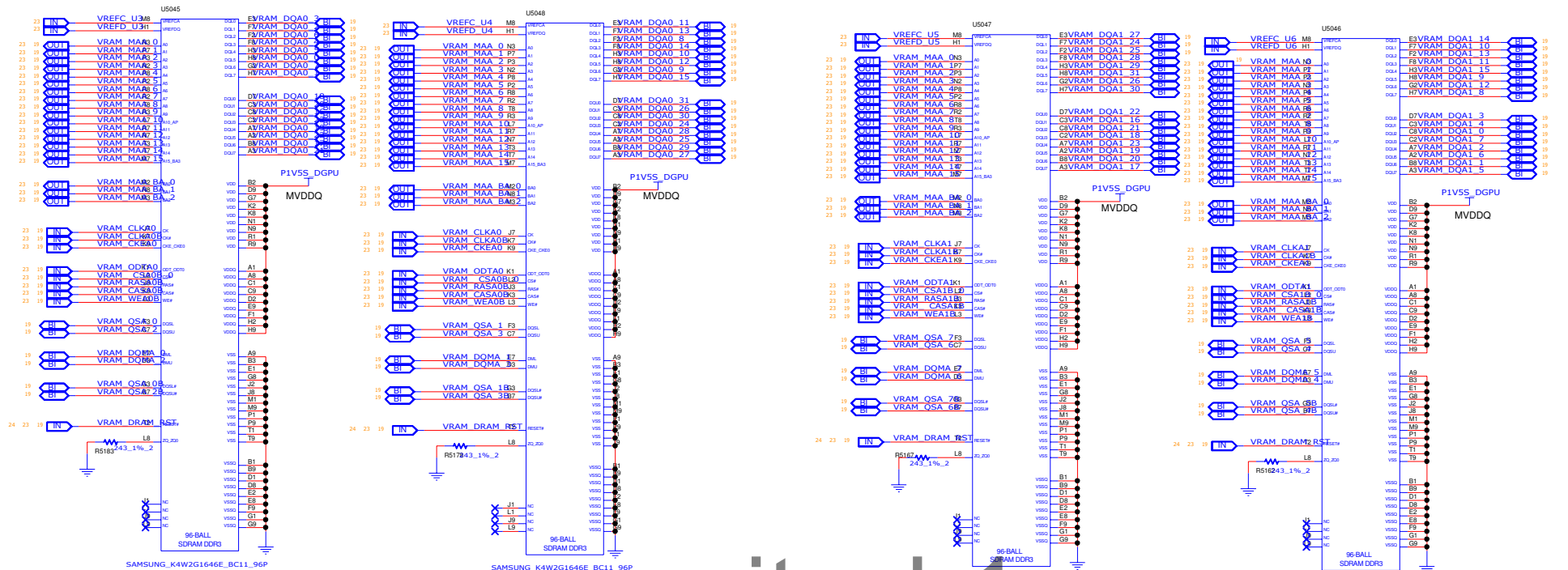
PS_3[3:1] can be used as board configuration related strapping. For example, if a design uses DDR3 video memory from different manufacturers, the three bits can be used to differentiate and identify the specific memory that is used on a specific board.

PS_3					
R _{pu} (Ω)	R _{pd} (Ω)	Bits [3:1]	Vender	Memory Type	
NC	4750	000	MIC	MT41J128M16/T-093G:K 2Gb 1GhzgDDR3	
8450	2000	001	Samsung	K4W2G1646E-BC1A 2Gb 1Ghz gDDR3	
4530	2000	010	Samsung	MT41K256M16HA-107G:E 4Gb900Mhz gDDR3	
6980	4990	011	MIC	K4W4G1646B-HC11 4Gb 900Mhz gDDR3	
4530	4990	100			
3240	5620	101			
3400	10000	110			
4750	NC	111			

Note: 0402 1% resistors are required



www.aitech1.ru



Stitching Caps OPTION for MEM signals that have c change of reference plane voltage

T&I

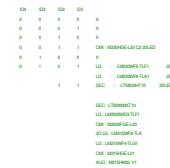
MODEL,PROJECT,FUNCTION
Block Diagram

SIZE CODE 1310XXXX-0-0
SHEET 21 of 77

CHANGE BY YYY DATE 23-06-2012

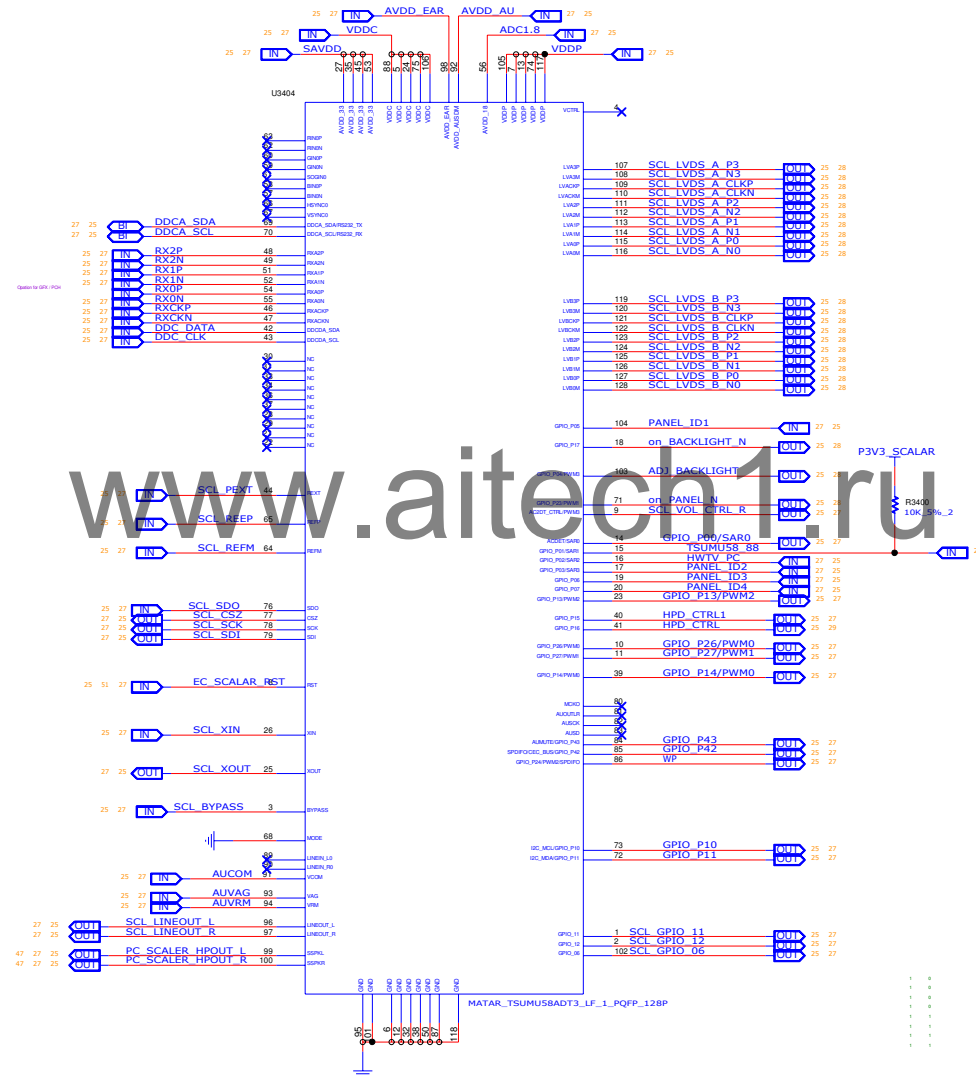


Scalar88 P/N: 6019B1026901
Scalar58 P/N: 6019B0957101

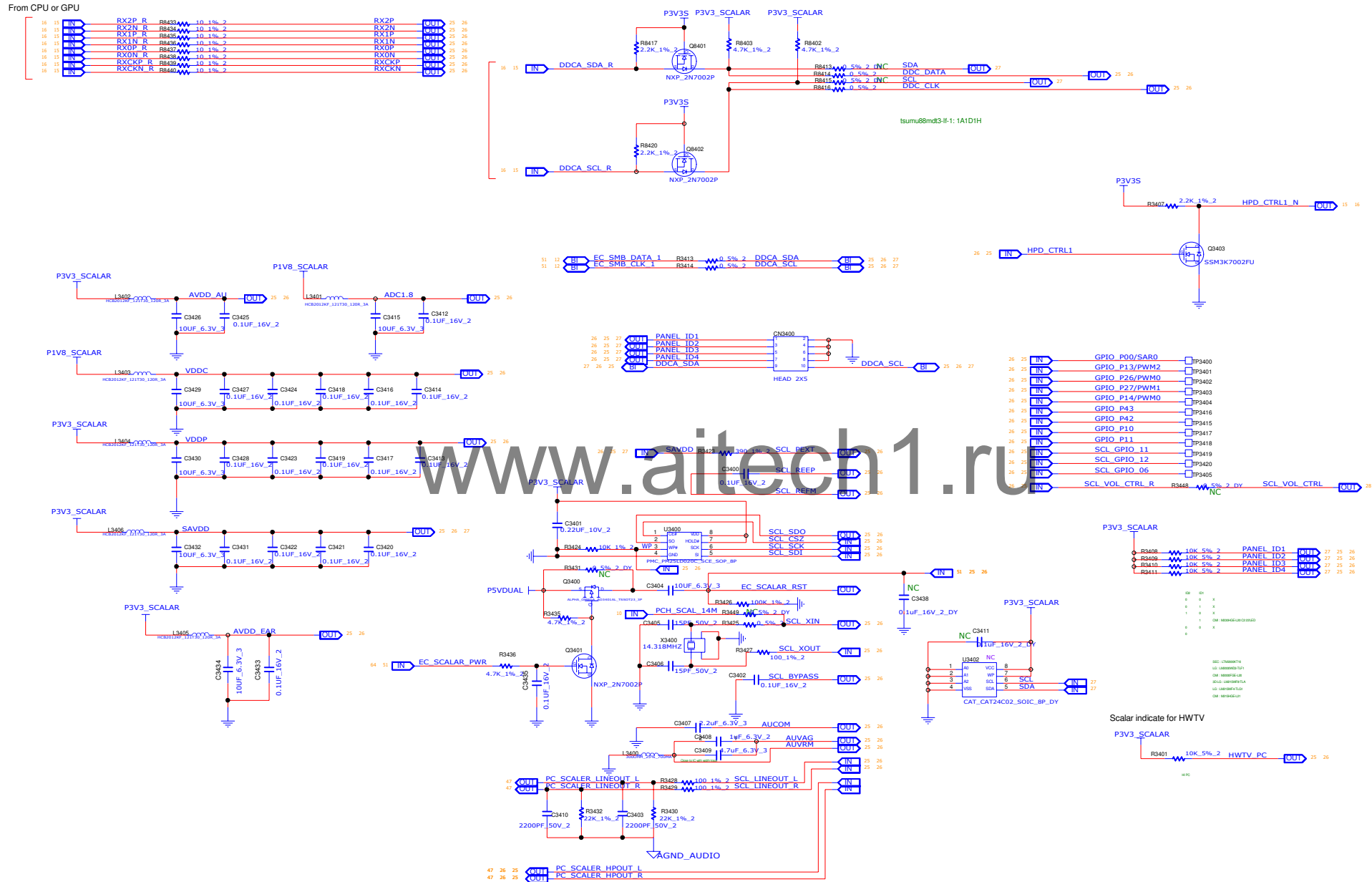


T&I			
TITLE			
MODEL,PROJECT,FUNCTION BLOCK DIAGRAM			
SIZE C	CODE CS	DOC NUMBER 1310XXXXX-0-0	REV X01
SHEET 25 of 77			

U3401 & U3404 need to place the same location.



Scalar88 P/N: 6019B1026901
Scalar58 P/N: 6019B0957101



T&I

TITLE			
MODEL,PROJECT,FUNCTION BLOCK DIAGRAM			
SIZE C	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
SHEET 27 of 77			

A B C D E F



A	
B	
C	
D	
E	
F	



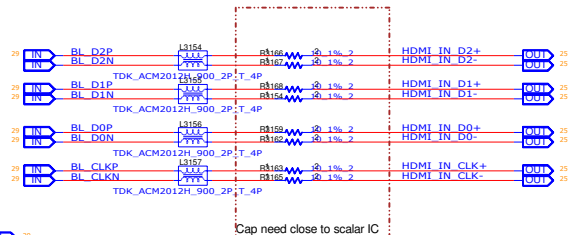
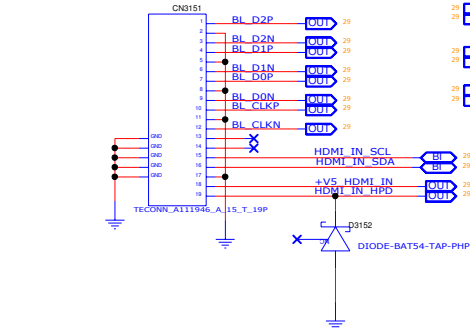
1

c



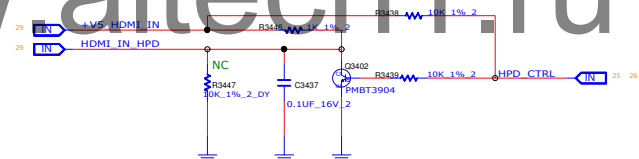
HDMI IN connector

HDMI Connector still not been confirmed

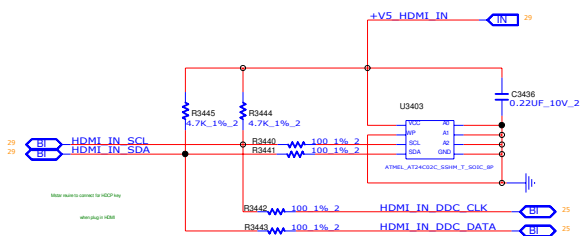


Cap need close to scalar IC

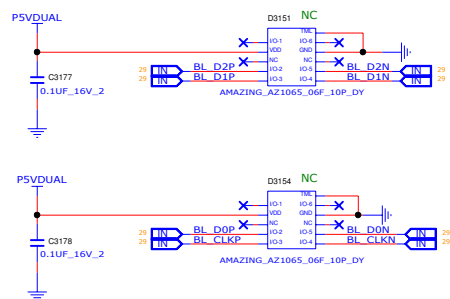
www.aitech1.ru



EDID circuit



ESD

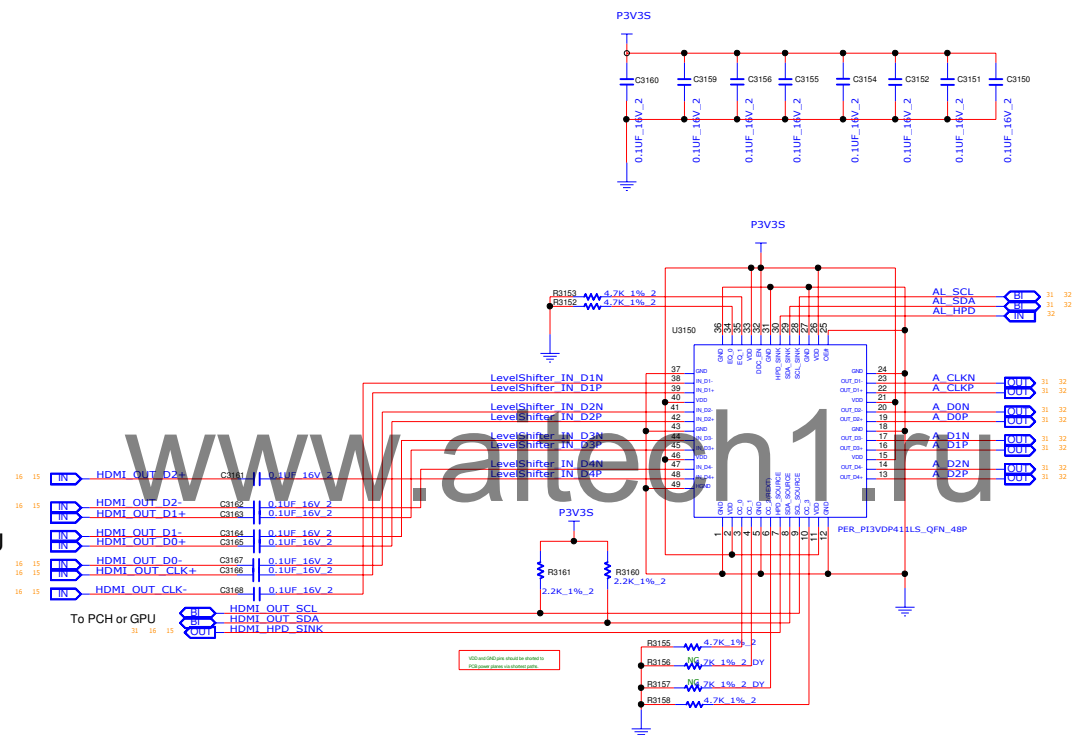


T&I

Title			
MODEL,PROJECT,FUNCTION			
Block Diagram			
SIZE	CODE	DOC NUMBER	REV
C	CS	1310xxxxx-0-0	X01
SHEET		29	of 77

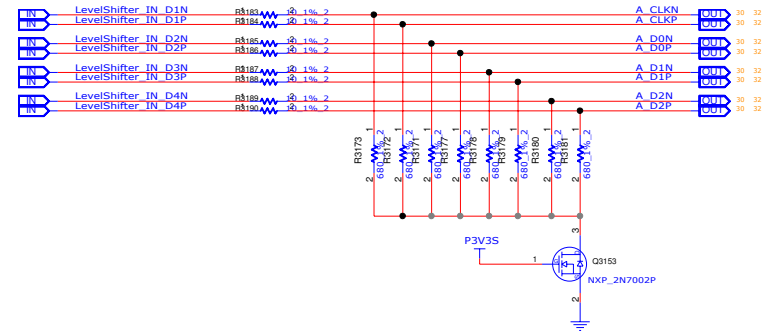
CHANGE by: yxyx DATE: 22-JULY-2012

From CPU or GPU

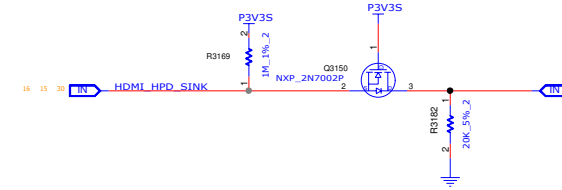
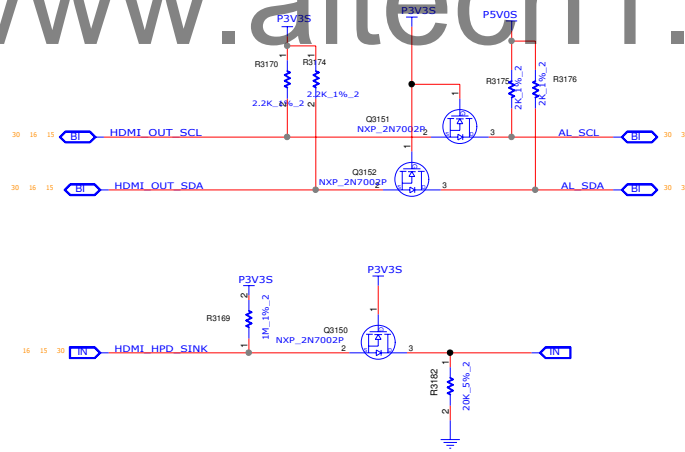


T&I

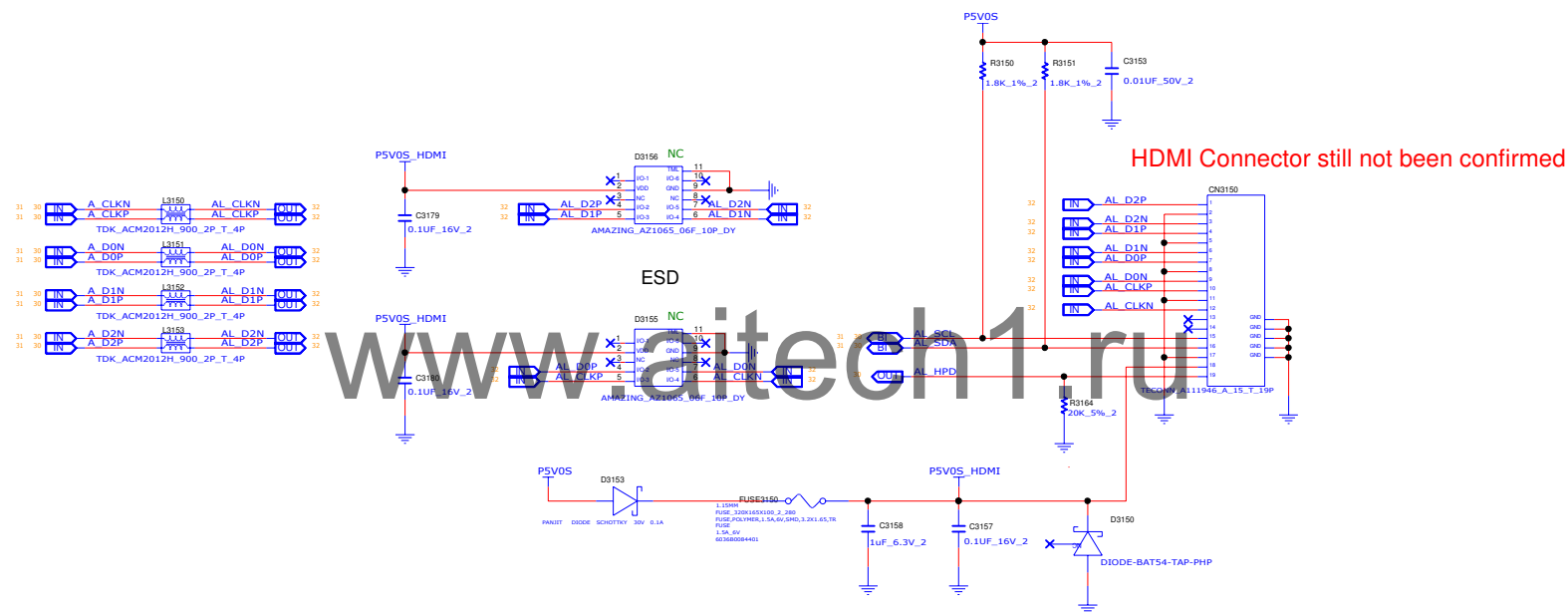
Title			
MODEL,PROJECT,FUNCTION			
Block Diagram			
SIZE	CODE	DOC NUMBER	REV
C	CS	1310xxxxx-0-0	X01
SHEET		30	of 77



www.aitech1.ru



Rear-IO HDMI OUT connector

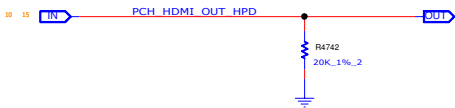


T&I

TITLE			
MODEL,PROJECT,FUNCTION			
Block Diagram			
SIZE	CODE	DOCNUMBER	REV
1	CS	1310xxxxx-0-D	X01
SHEET		32	of 77

w/o HDMI OUT

For PCH HPD disable



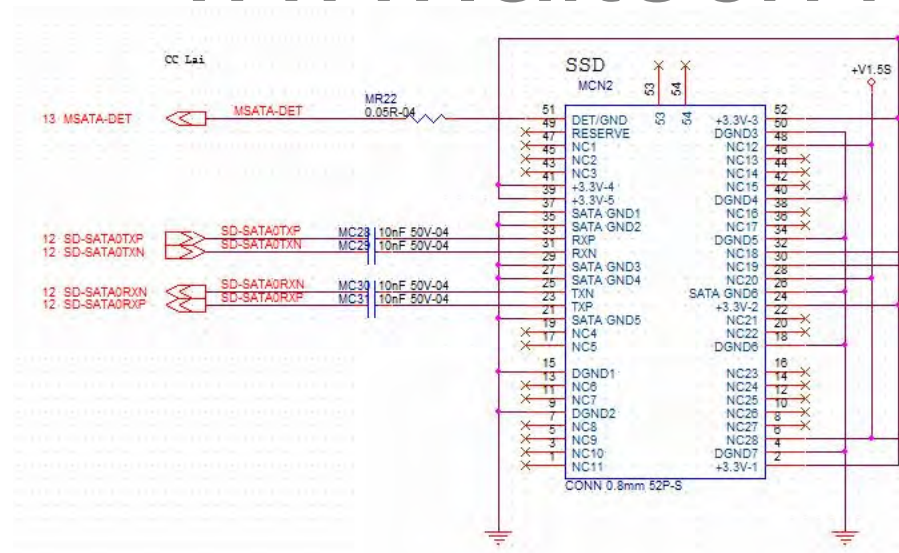
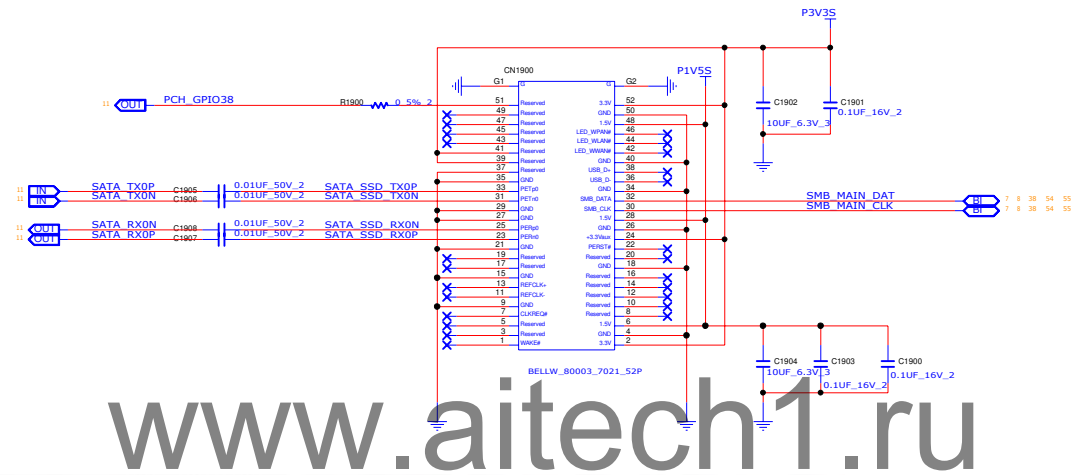
For GPU HPD disable



www.aitech1.ru

T&I			
Title			
MODEL,PROJECT,FUNCTION			
Block Diagram			
SIZE	CODE	DOC NUMBER	REV
C	CS	1310xxxxx-0-0	X01
SHEET		31	of 77

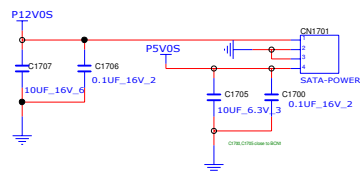
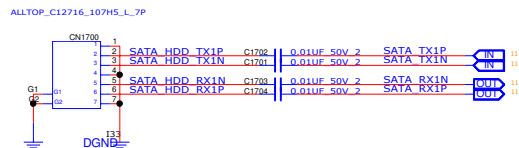
SSD CONNECTOR



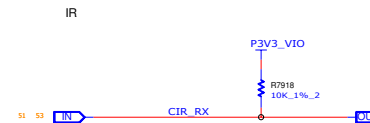
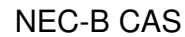
T&I

TITLE			
MODEL, PROJECT, FUNCTION			
BLOCK DIAGRAM			
SIZE	CODE	DOC NUMBER	REV
E	CS	1310XXXX-0-0	X01
SHEET		34	of 77

ONN.
www.aitech1.ru

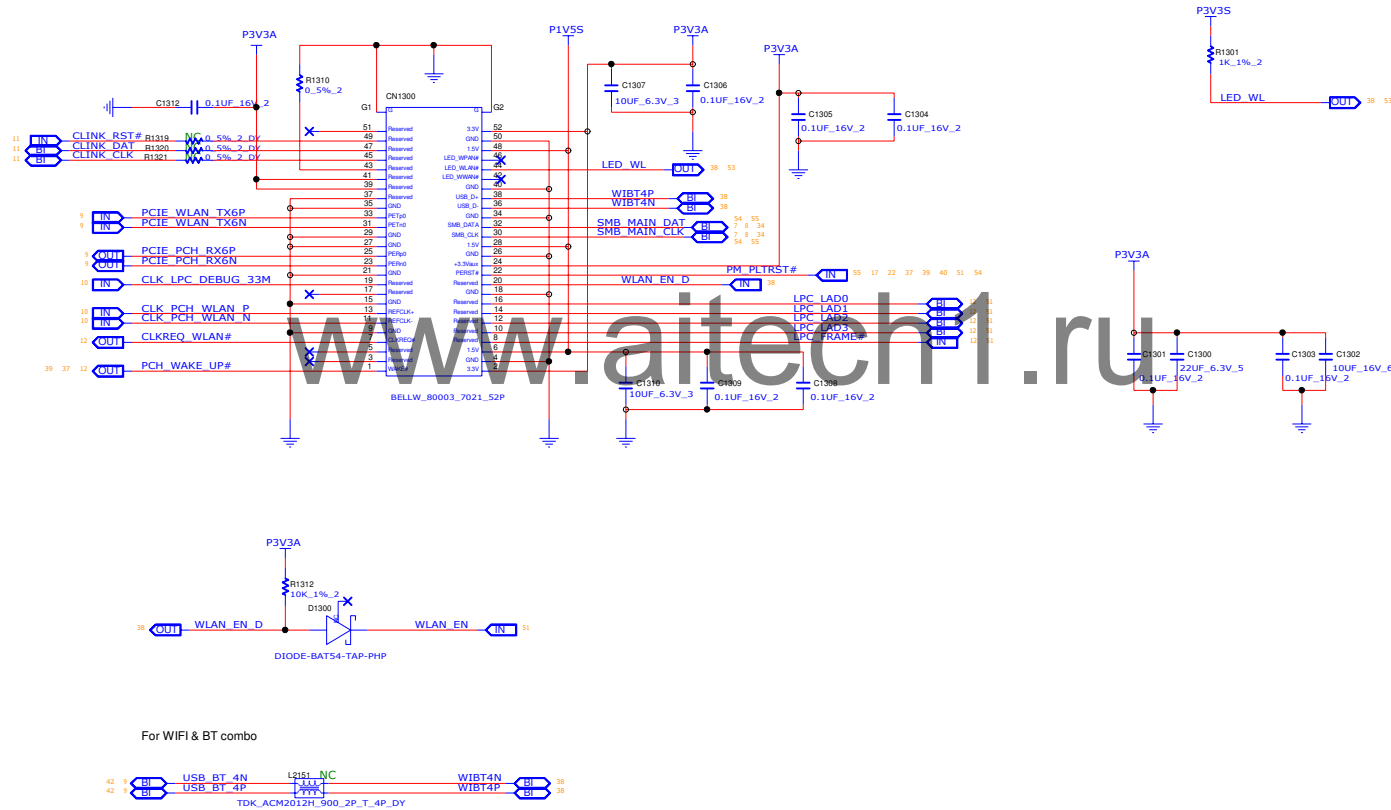


Pin 1 to 39 of the B-CAS module. Pins 1-10 are labeled: 1. COU1, 2. COU2, 3. PSVS TV, 4. B-CAS DETECT, 5. CLK_PSH TV, 6. CLK_PSH RX2N, 7. CLKRED TV, 8. B-CAS RESET, 9. B-CAS DATA, 10. B-CAS PWR. Pins 11-19 are labeled: 11. COU1, 12. COU2, 13. PSVS TV, 14. B-CAS DETECT, 15. CLK_PSH TV, 16. CLK_PSH RX2N, 17. CLKRED TV, 18. B-CAS RESET, 19. B-CAS DATA. Pins 20-28 are labeled: 20. COU1, 21. COU2, 22. PSVS TV, 23. B-CAS DETECT, 24. CLK_PSH TV, 25. CLK_PSH RX2N, 26. CLKRED TV, 27. B-CAS RESET, 28. B-CAS DATA. Pins 29-39 are labeled: 29. COU1, 30. COU2, 31. PSVS TV, 32. B-CAS DETECT, 33. CLK_PSH TV, 34. CLK_PSH RX2N, 35. CLKRED TV, 36. B-CAS RESET, 37. B-CAS DATA, 38. B-CAS PWR, 39. B-CAS PWR. The module is connected to a PCB with various components like resistors and capacitors.



CHANGE by	xxx	DATE	22-11-11 Y-2012
-----------	-----	------	-----------------

Mini PCI-e Card for WLAN

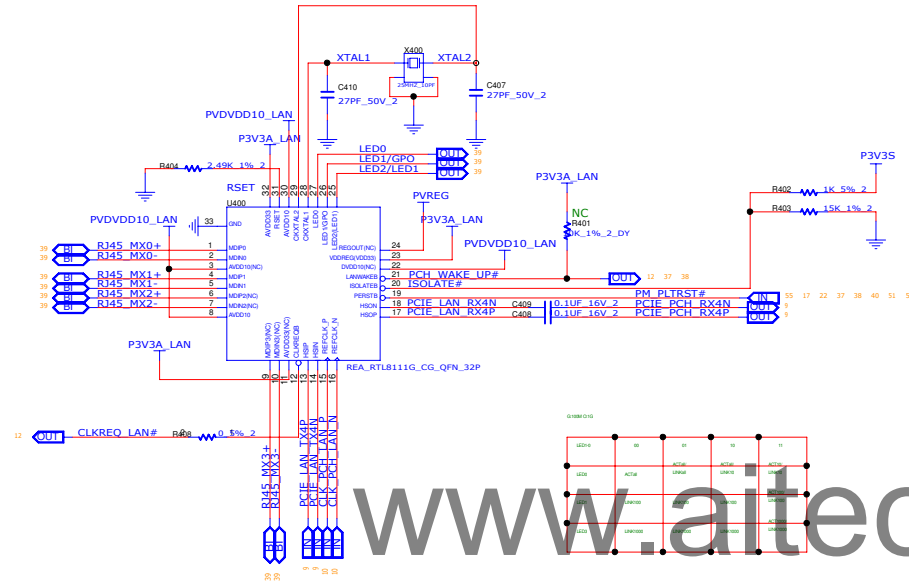


T&I

TITLE			
MODEL, PROJECT, FUNCTION			
BLOCK DIAGRAM			
SIZE	CODE	DOC NUMBER	REV
C	CS	1310XXXX-0-0	X01
SHEET		38	of 77

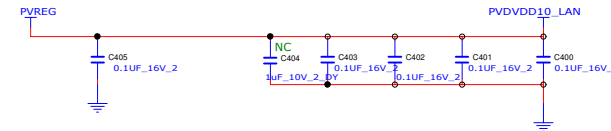
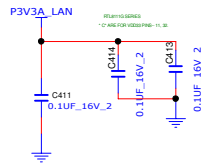
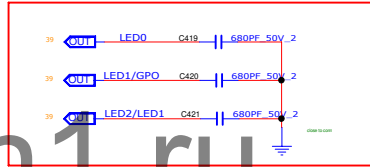
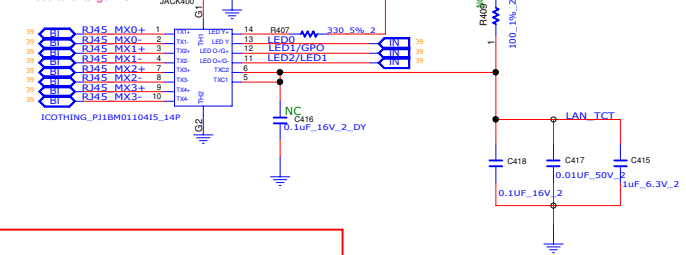
CHANGE BY: yxyx DATE: 22-JULY-2012

LAN RTL8111G

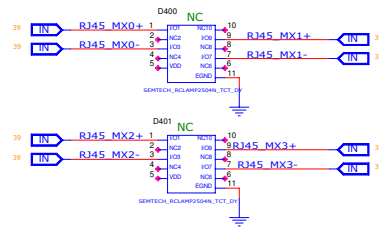


RJ45 connector

Ivan
Need to change ITC



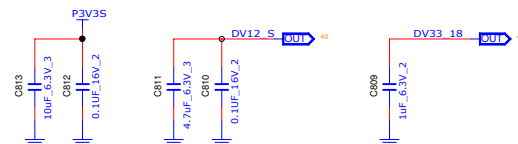
REDACTED



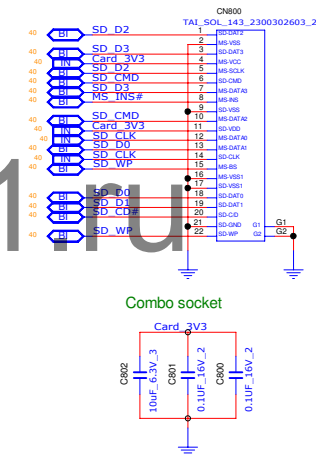
T&I

TITLE			
MODEL,PROJECT,FUNCTION			
Block Diagram			
SIZE	CODE	DOC NUMBER	REV
C	CS	1310XAXX-0-0	X01
SHEET		39	of 77

CHANGE by: yxy DATE: 22-JULY-2012

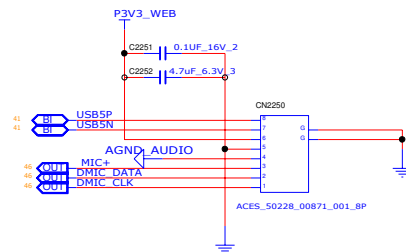
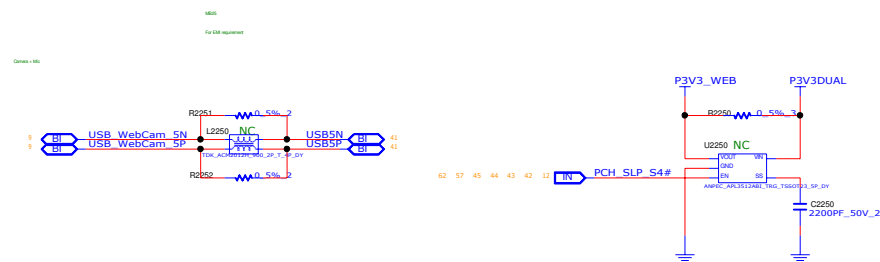


Combo socket



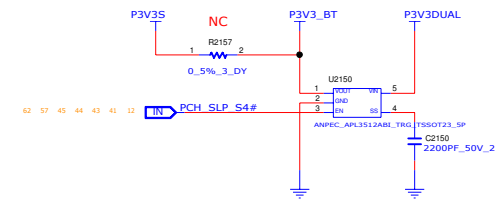
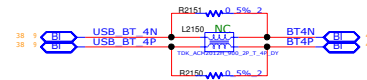
T&I			
TITLE			
MODEL,PROJECT,FUNCTION BLOCK DIAGRAM			
SIZE C	CODE CS	DOC NUMBER 1310XXXXX-0-0	REV X01
SHEET 40 of 77			

www.aitech1.ru

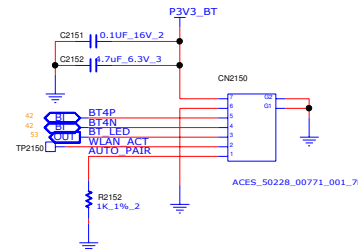


TITLE			
MODEL,PROJECT,FUNCTION BLOCK DIAGRAM			
SIZE C	CODE CS	DOC NUMBER 1310xxxxxx-0-0	REV X01
SHEET 41 of 77			

BLUETOOTH



www.aitech1.ru

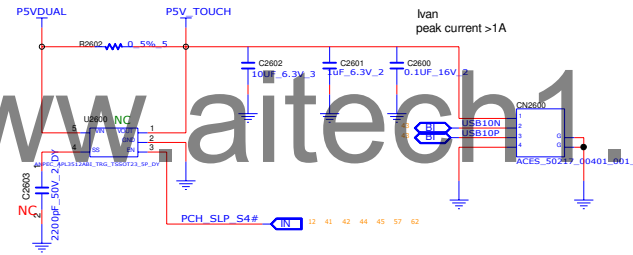
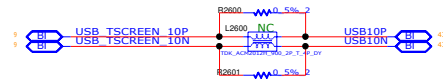


T&I

TITLE			
MODEL, PROJECT, FUNCTION			
BLOCK DIAGRAM			
SIZE	CODE	DOC NUMBER	REV
C	CS	1310XXXX-0-0	X01
SHEET		42	of 77

CHANGE BY: yxyx DATE: 22-JULY-2012

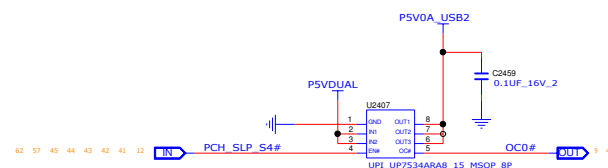
TOUCH SCREEN



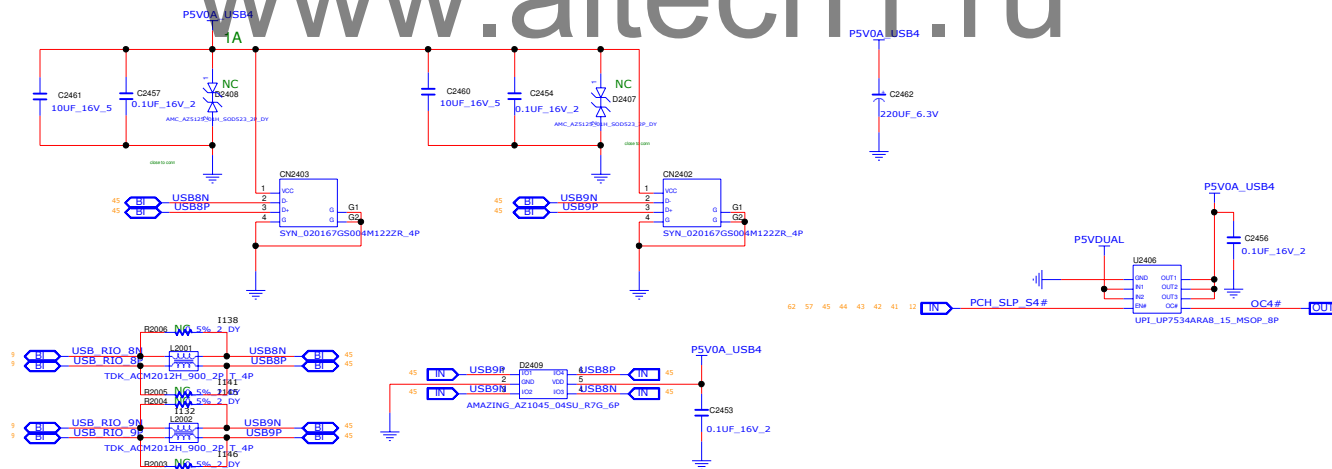
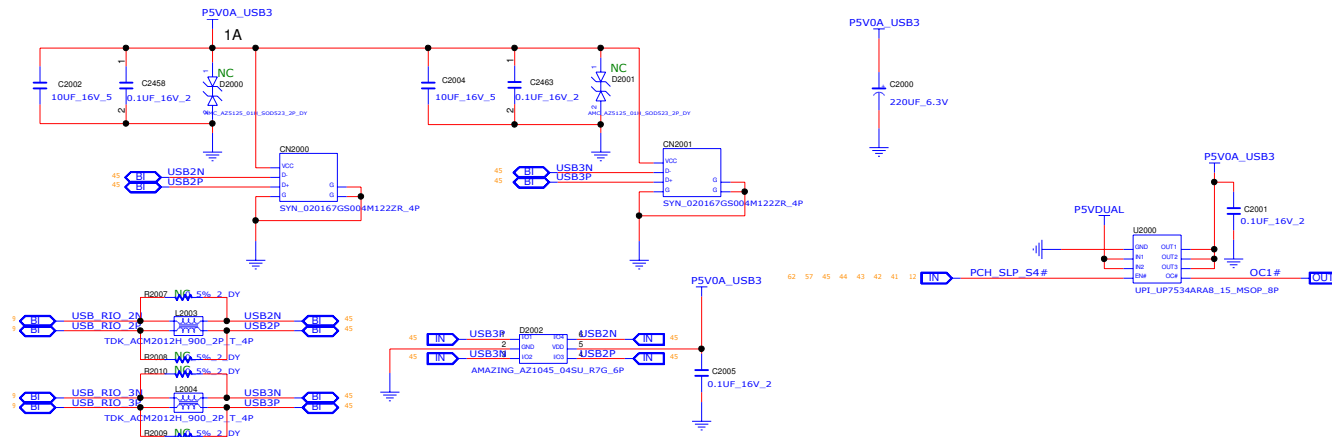
T&I

TITLE			
MODEL,PROJECT,FUNCTION BLOCK DIAGRAM			
SIZE C	CODE CS	DOC NUMBER 1310XXXXX-0-0	REV X01
CHANGE BY XXX		DATE 22-JULY-2012	SHEET 43 of 72

www.aitech1.ru



Rear USB2.0 CONN x4

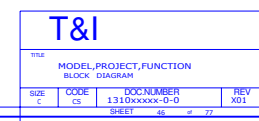


T&I

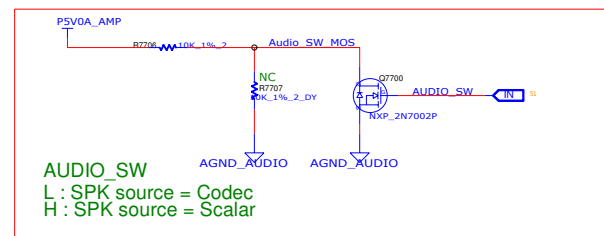
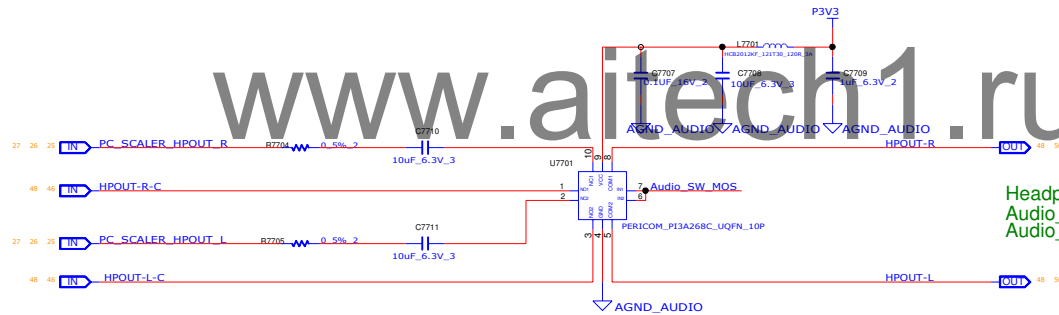
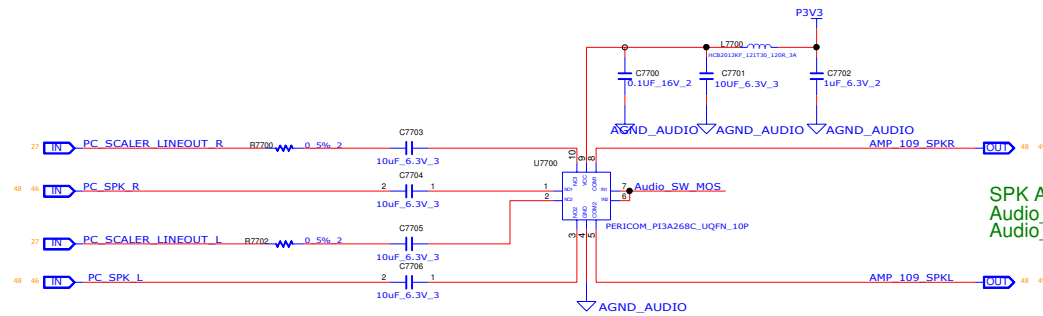
Title			
MODEL,PROJECT,FUNCTION			
Block Diagram			
SIZE	CODE	DOC NUMBER	REV
C	CS	1310XXXX-0-0	X01
SHEET		45	of 77

CHANGE BY: YXX DATE: 22.JULY-2012

www.aitech1.ru



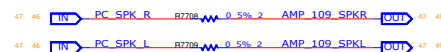
AUDIO SWITCH for HDMI-IN



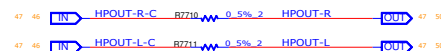
T&I

TITLE			
MODEL, PROJECT, FUNCTION BLOCK DIAGRAM			
SIZE	CODE	DOC NUMBER	REV
C	CS	1310XXXXX-D	X01
SHEET		47	# 72

AUDIO SWITCH for w/o HDMI-IN



www.aitech1.ru

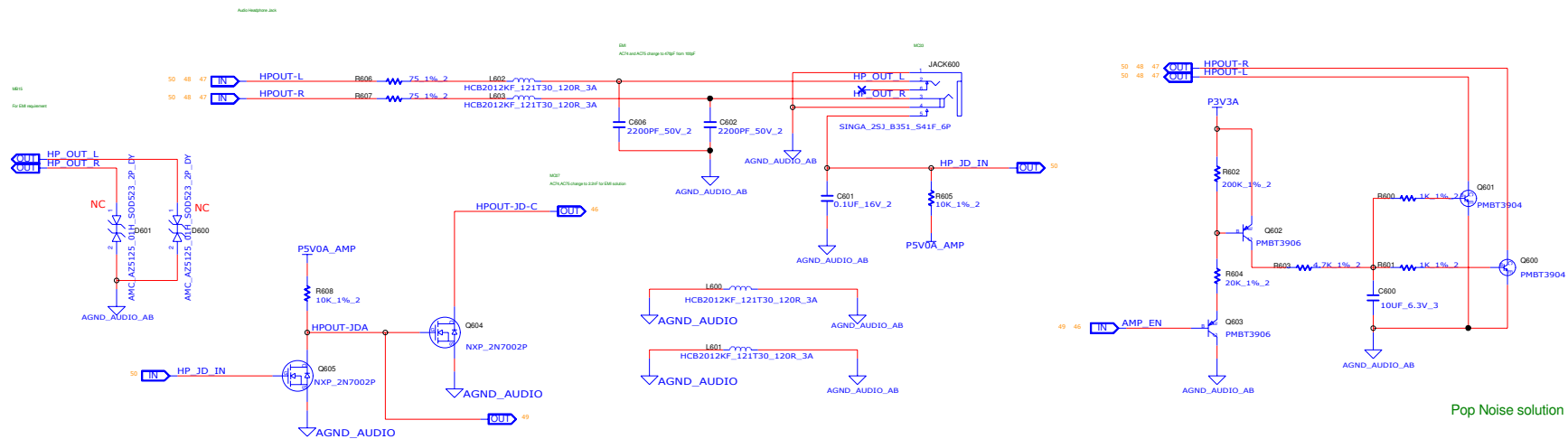


T&I

TITLE			
MODEL, PROJECT, FUNCTION			
BLOCK DIAGRAM			
SIZE	CODE	DOC NUMBER	REV
C	CS	1310XXXXX-0-0	X01
SHEET		48	of 77

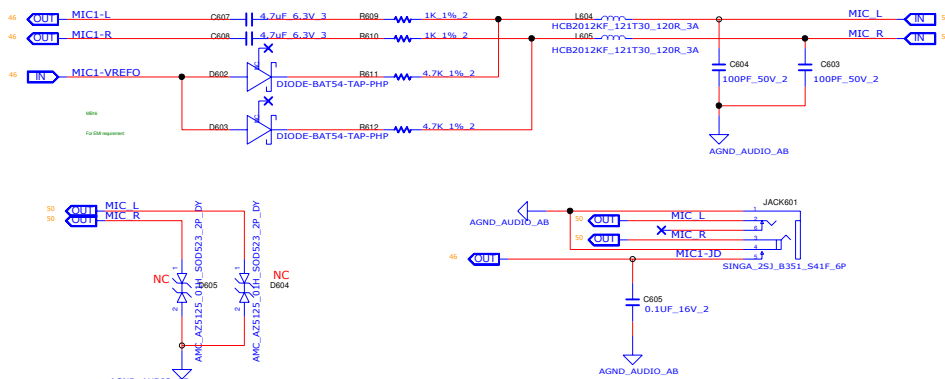
CHANGE BY: yxyx DATE: 22-JULY-2012

AUDIO CONNECTOR

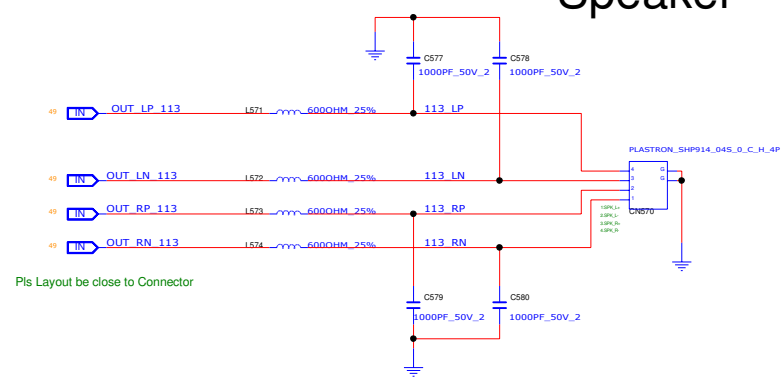


www.aitech1.ru

Audio Mic Jack



Speaker



Pls Layout be close to Connector

T&I			
MODEL/PROJECT/FUNCTION BLOCK DIAGRAM			
SIZE	CODE	DOC NUMBER	REV
C	D5	1310XXXX-0-0	X01
SHEET		50	77

CHANGE BY: yxy DATE: 22-JULY-2012

A	B	C	D	E	F
---	---	---	---	---	---

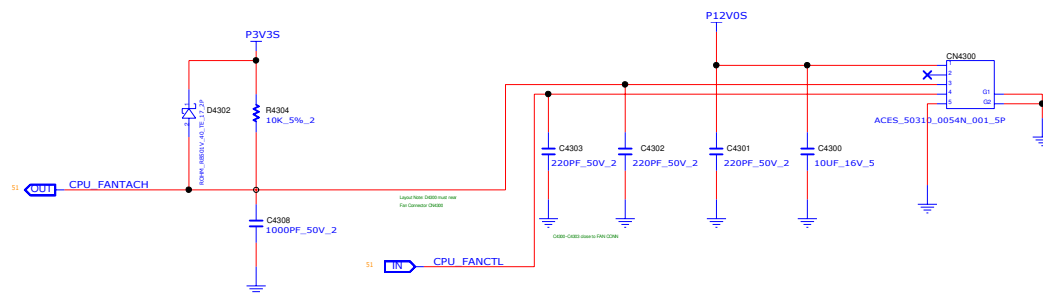


5

54

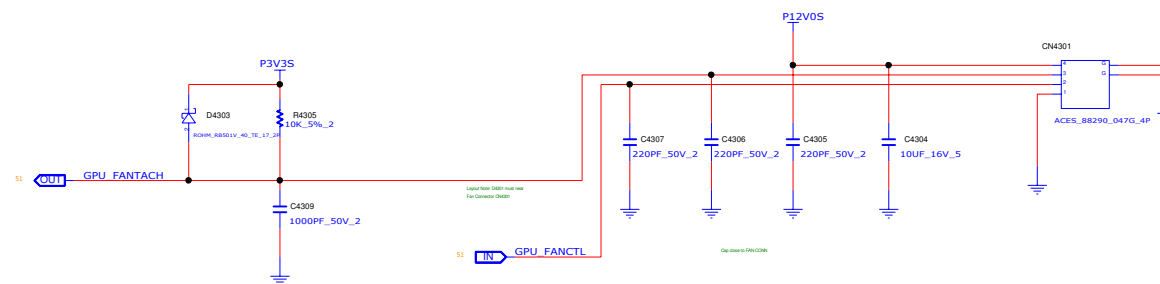
56

CPU FAN



www.aitech1.ru

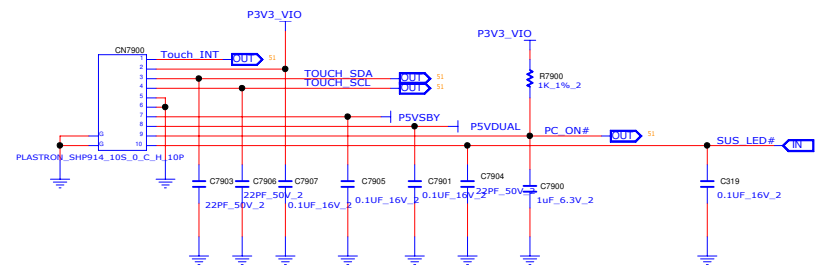
GPU FAN



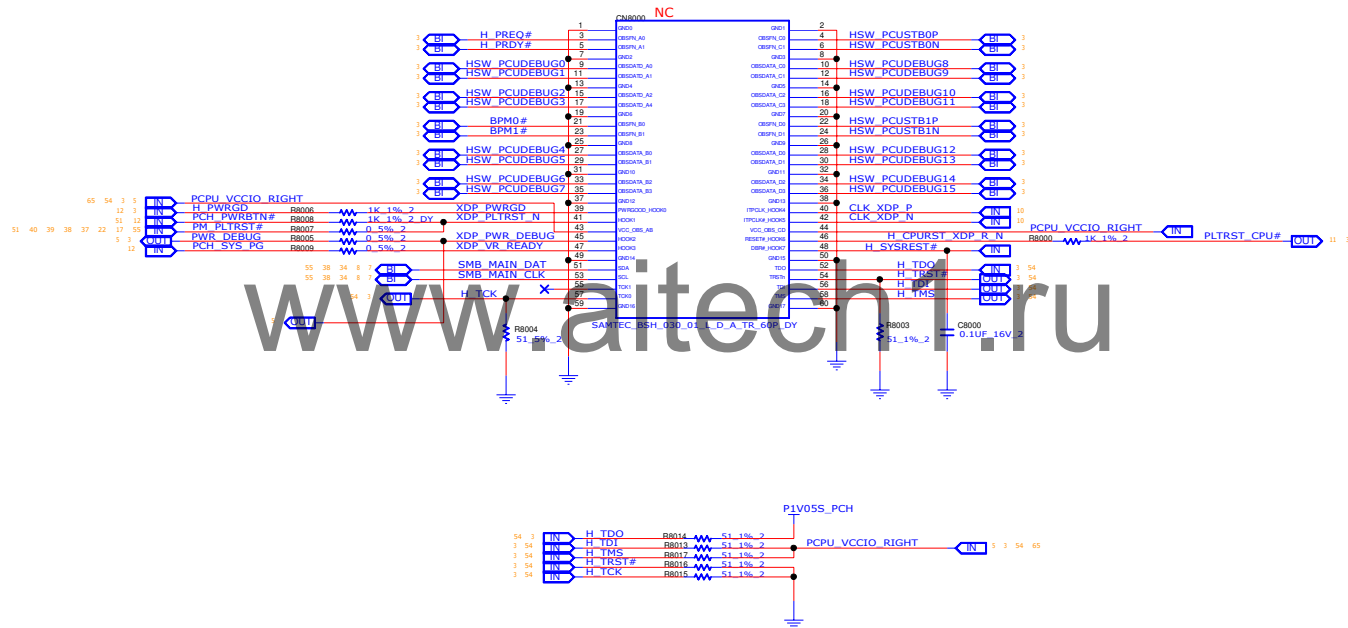
T&I

TITLE			
MODEL,PROJECT,FUNCTION BLOCK DIAGRAM			
SIZE C	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
SHEET 52 of 77			

www.aitech1.ru



XDP CONNECTOR

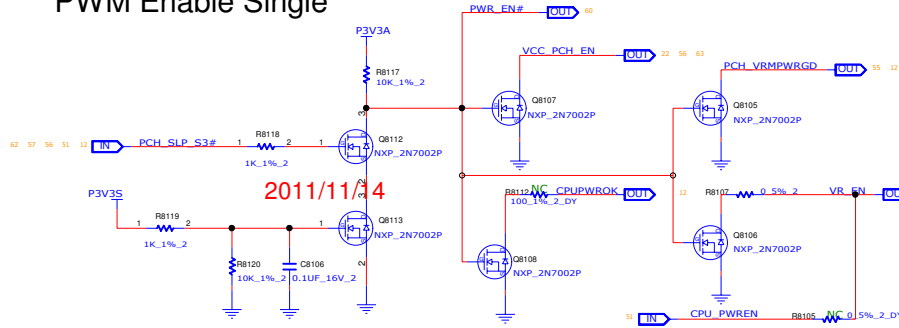


T&I

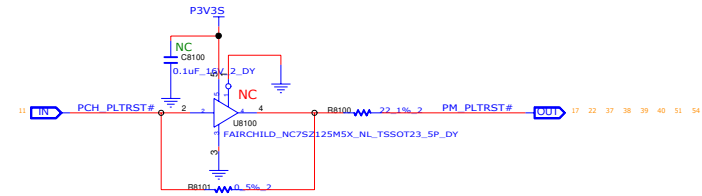
TITLE			
MODEL, PROJECT, FUNCTION			
BLOCK DIAGRAM			
SIZE	CODE	DOC NUMBER	REV
E	CS	1310XXXXX-0-0	X01
SHEET		54	of 77

CHANGE BY: yxyx DATE: 22-JULY-2012

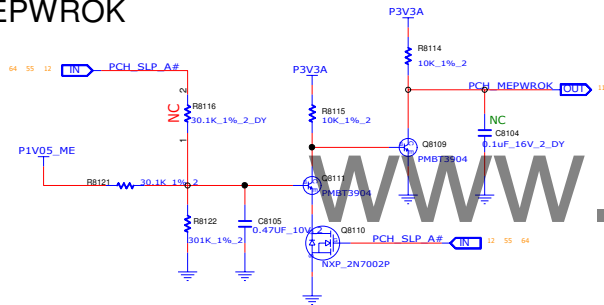
PWM Enable Single



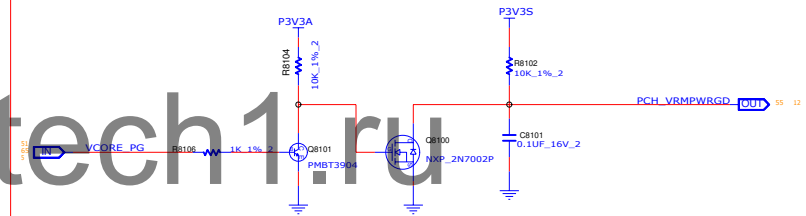
Reset Single



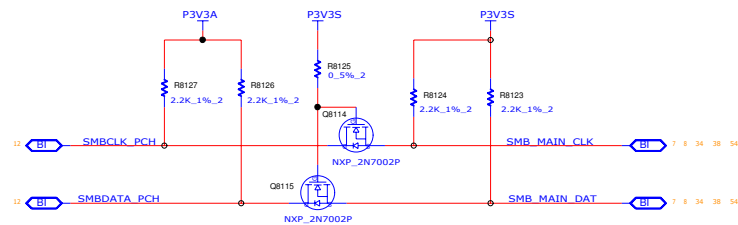
PCH_MEPWROK



PCH_VRMPWRGD (VR_READY)



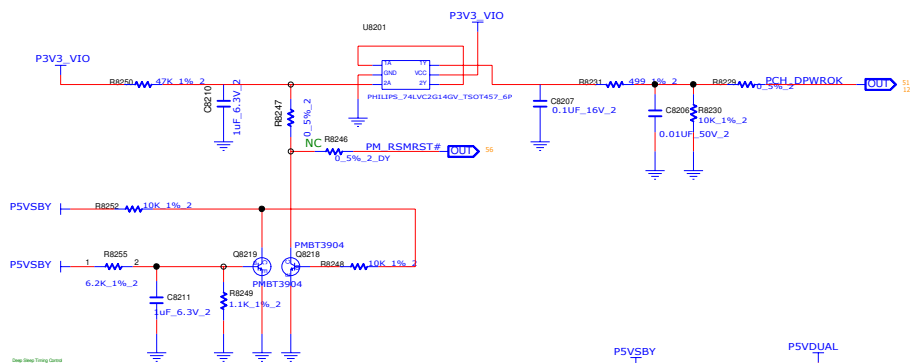
SM BUS



T&I

TITLE			
MODEL,PROJECT,FUNCTION BLOCK DIAGRAM			
SIZE	CODE	DOC NUMBER	REV
C	CS	1310XXXX-0-0	X01
SHEET		55	77

PCH DPWROK

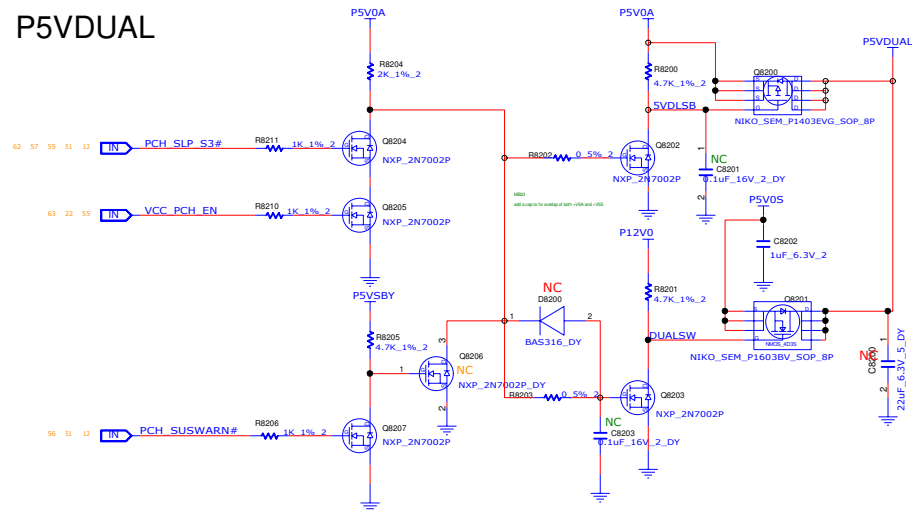


To PCH

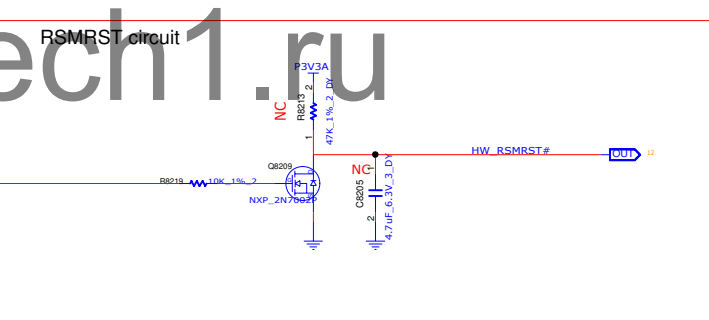
To PCH 12  PCH_SUSACK#

2011/11/14

P5VDUAL

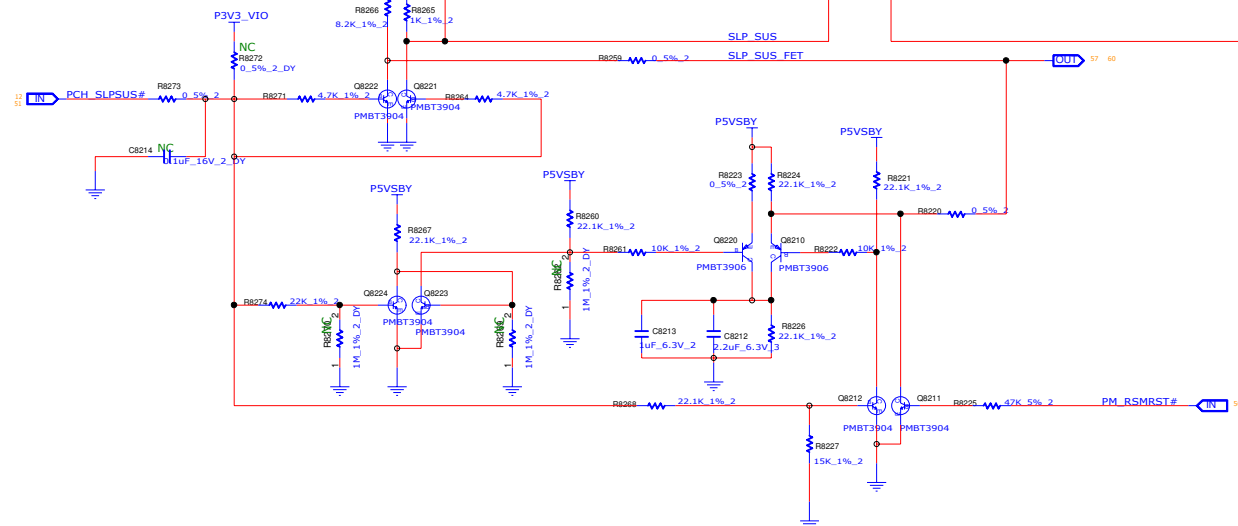


RSMRST circuit



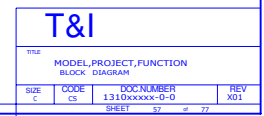
from PCH

from PCH

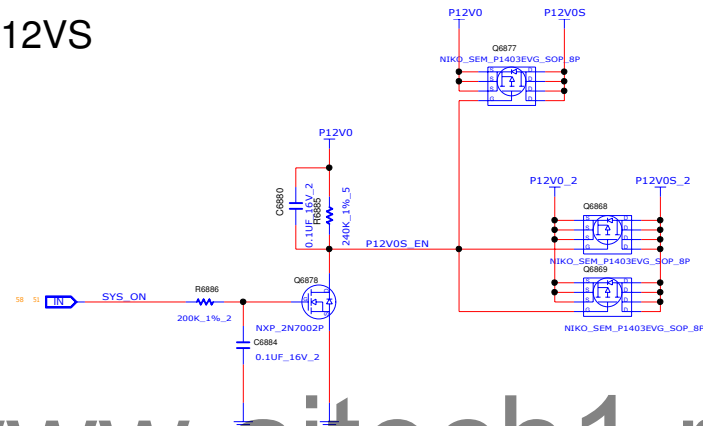


T&I			
TITLE			
MODEL,PROJECT,FUNCTION BLOCK DIAGRAM			
SIZE C	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01
SHEET 56 of 77			

www.aitech1.ru

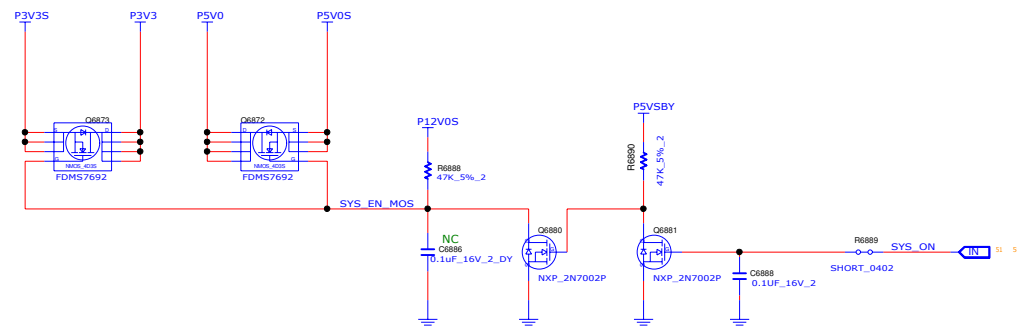


P12VS



www.aitech1.ru

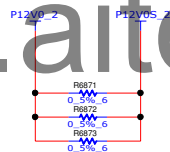
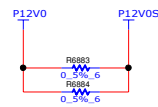
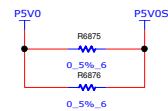
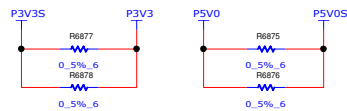
P3V3S & P5V0S



T&I

TITLE			
MODEL,PROJECT,FUNCTION BLOCK DIAGRAM			
SIZE C	CODE CS	DOC NUMBER 1310xxxxxx-0-0	REV X01
SHEET 58 of 77			

Power for w/o HDMI-IN

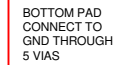


www.aitech1.ru

T&I

TITLE			
MODEL,PROJECT,FUNCTION BLOCK DIAGRAM			
SIZE	CODE	DOC NUMBER	REV
C	CS	1310XXXX-0-0	X01
SHEET		29	of 77





STATE	S3	S5	VREF	VDDQ	VTTREF	VTT
S0	HI	HI	ON	ON	ON	ON
S3	LO	HI	ON	ON	ON	OFF(High-Z)
S4/S5	LO	LO	OFF	OFF(Discharge)	OFF(Discharge)	OFF(Discharge)

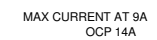
STATE	S3	S5	VREF	VDDQ	VTTREF	VTT
S0	HI	HI	ON	ON	ON	ON
S3	LO	HI	ON	ON	ON	OFF(High-Z)
S4/S5	LO	LO	OFF	OFF(Discharge)	OFF(Discharge)	OFF(Discharge)

STATE	S3	S6	VREF	VDDQ	VTTREF	VTT
90	H	H	ON	ON	ON	ON
93	L	H	ON	ON	ON	OFF (High-Z)
94/95	L	L	OFF	OFF (Discharge)	OFF (Discharge)	OFF (Discharge)

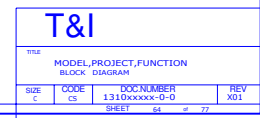
STATE	S3	S6	VREF	VDDQ	VTTREF	VTT
90	H	H	ON	ON	ON	ON
93	L	H	ON	ON	ON	OFF (High-Z)
94/95	L	L	OFF	OFF (Discharge)	OFF (Discharge)	OFF (Discharge)

MODE NO.	RESISTANCE BETWEEN MODE AND GND (k Ω)	SWITCHING FREQUENCY (kHz)	DISCHARGE MODE
3	200	400	Tracking
2	100	300	
1	08	200	
0	47	400	Non-tracking

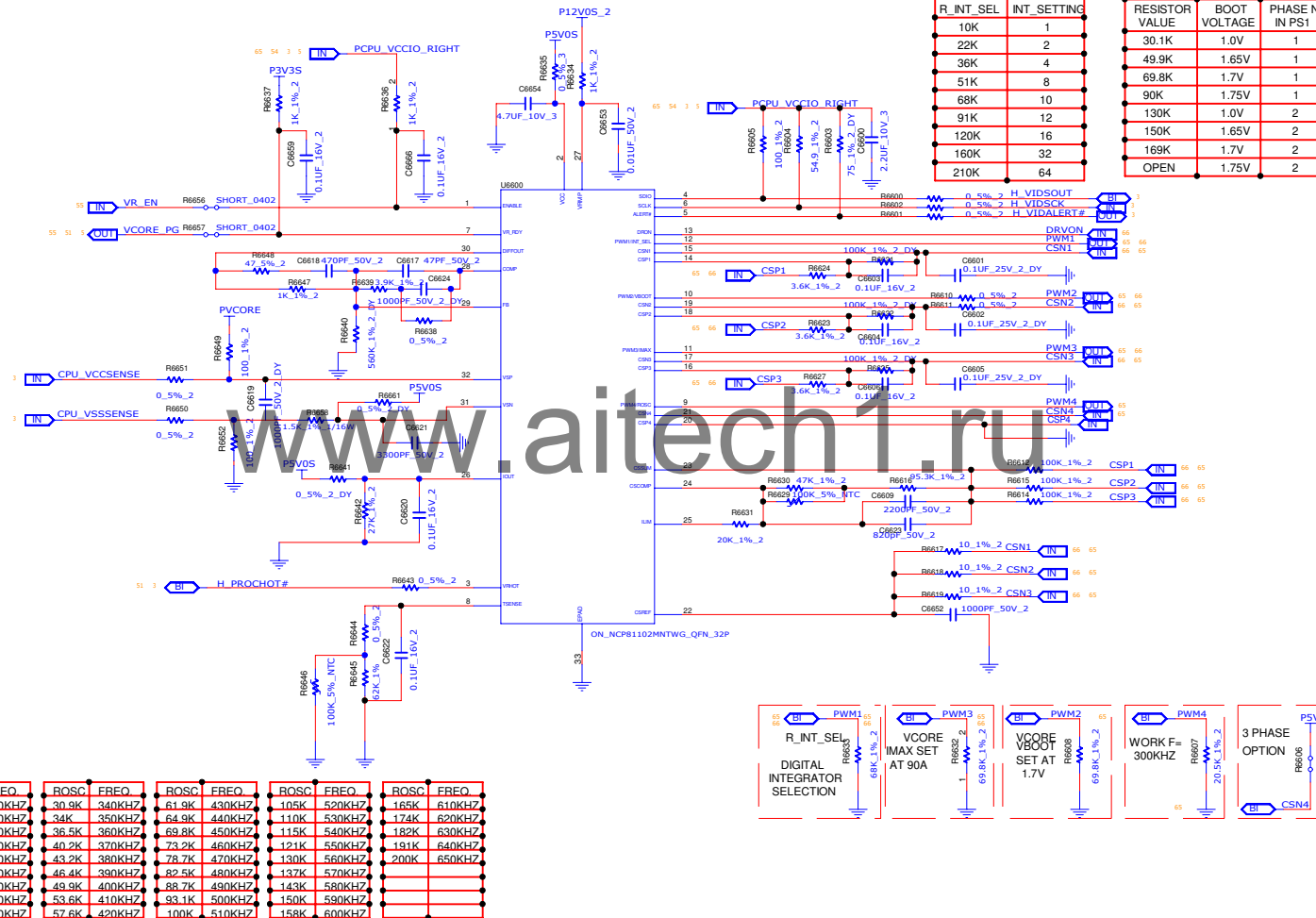
MODE NO.	RESISTANCE BETWEEN MODE AND GND (k Ω)	SWITCHING FREQUENCY (kHz)	DISCHARGE MODE
3	200	400	Tracking
2	100	300	
1	08	200	
0	47	400	Non-tracking

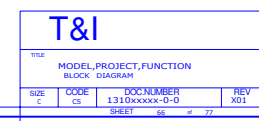


www.aitech1.ru



NCP81102 1/2 (P)





F

E

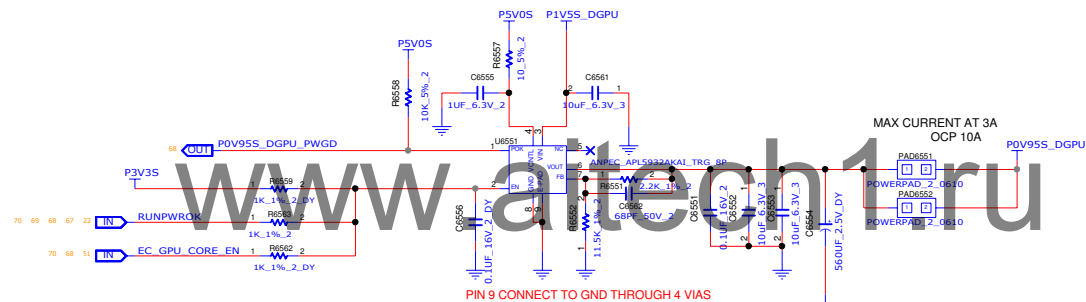
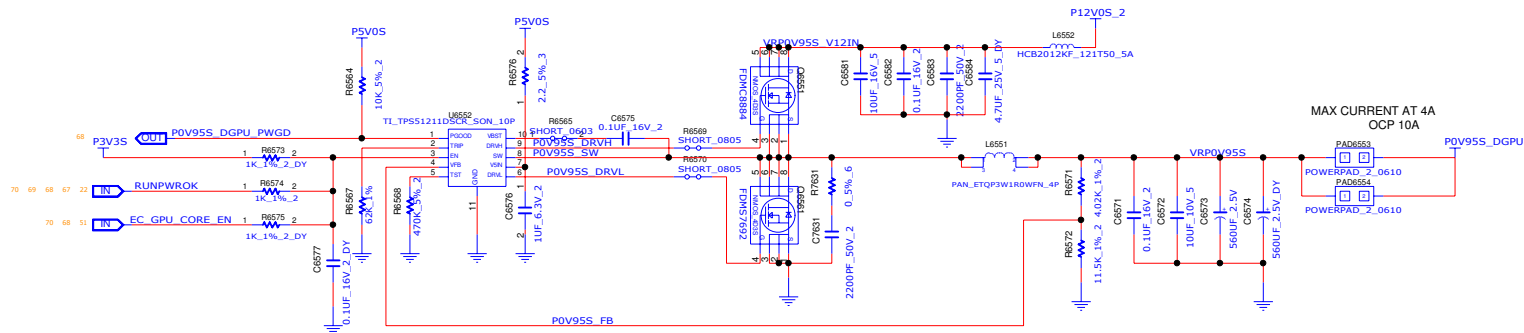
D

C

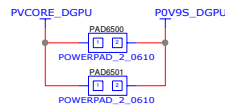
B

A

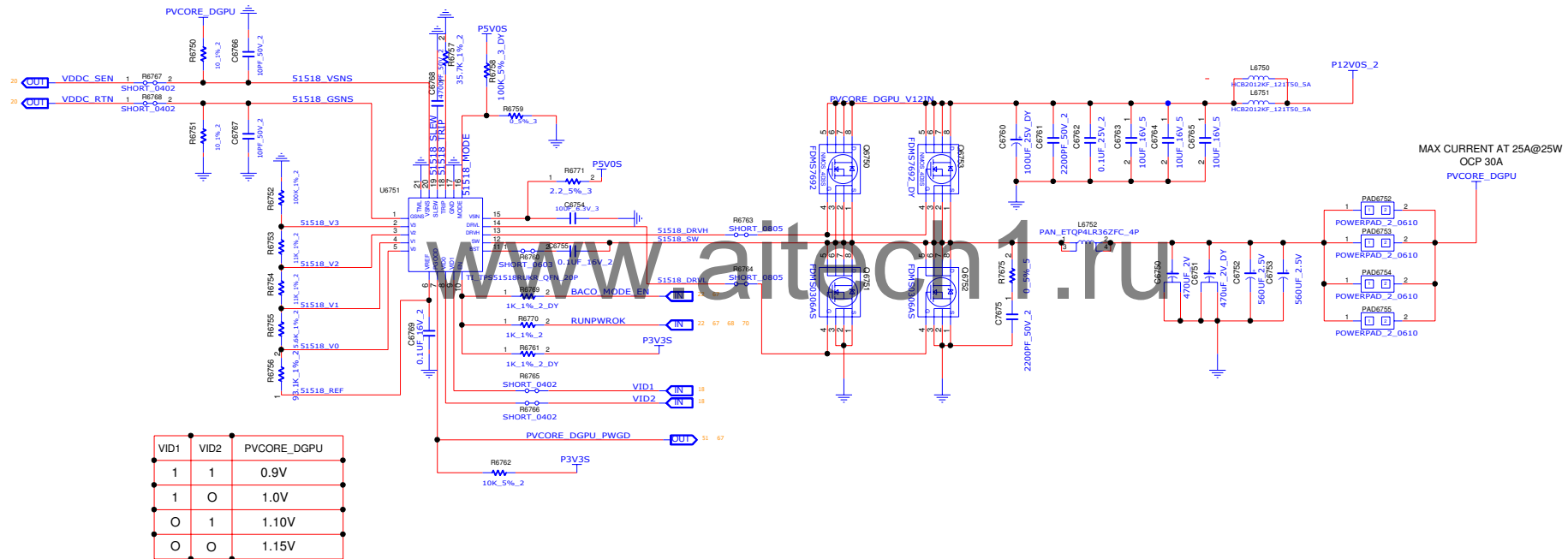
ATI_0.95V (P)



ATI_0.9V (VDDCI) (P)



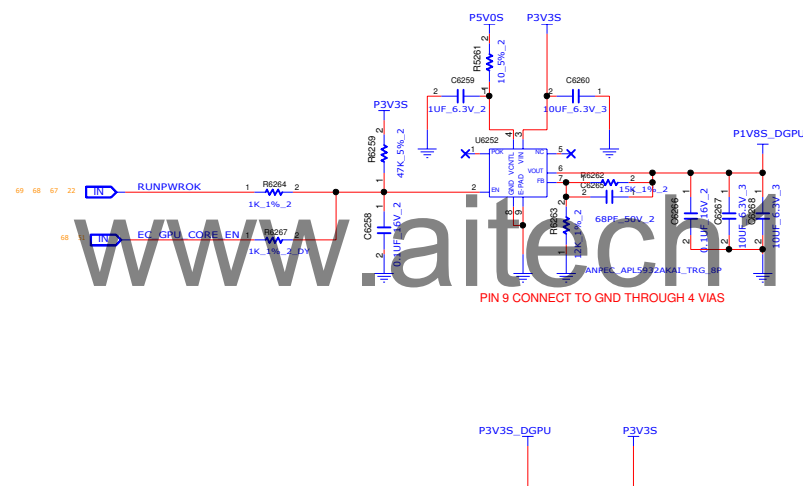
ATI_VDDC_25W (P)



T&I

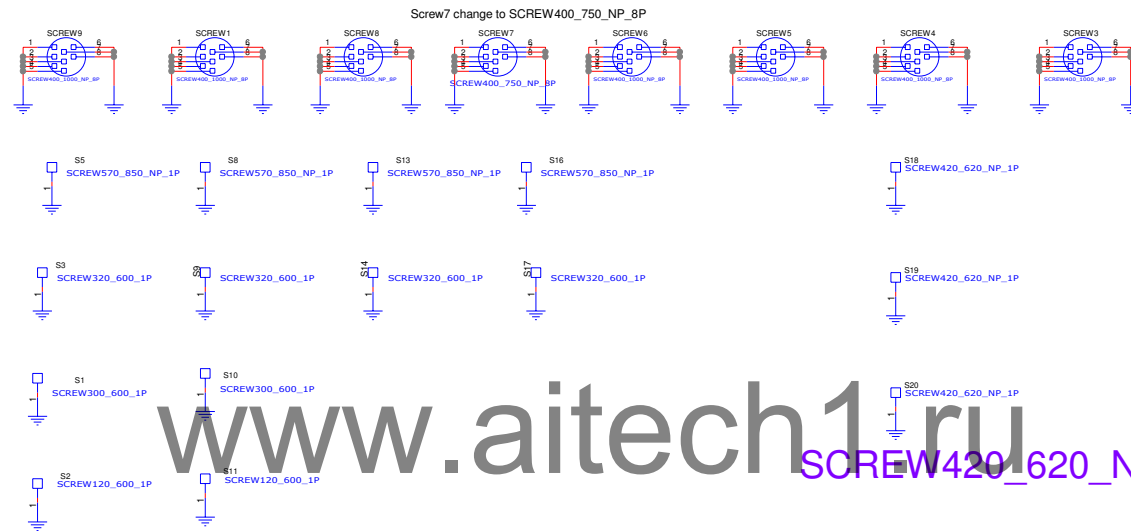
TITLE			
MODEL,PROJECT,FUNCTION BLOCK DIAGRAM			
SIZE	CODE	DOC NUMBER	REV
E	CS	1310XXXX-0-0	X01
SHEET		69	77

CHANGE BY: YXX DATE: 22-JULY-2012

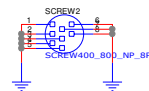


Screw

Ivan update SCREW400_1000_NP_8P x8



Ivan update SCREW400_800_NP_8P x1



NPTH	PAD(mm)	孔徑(mm)	pin
Y	10	4	9
N	8.5	5.7	1
N	6	3.2	1
N	6	3	1
N	6	1.2	1
Y	8	4	9
N	8	4	1

已建過，請選 SCREW400_1000_NP_8P

Foot Print done SCREW570_850_NP_1P 0.127mm

已建過，請選 SCREW320_600_1P

已建過，請選 SCREW300_600_1P

已建過，請選 SCREW120_600_1P

Foot Print done SCREW400_800_NP_8P 0.127mm

已建過，請選 SCREW400_800_1P

T&I

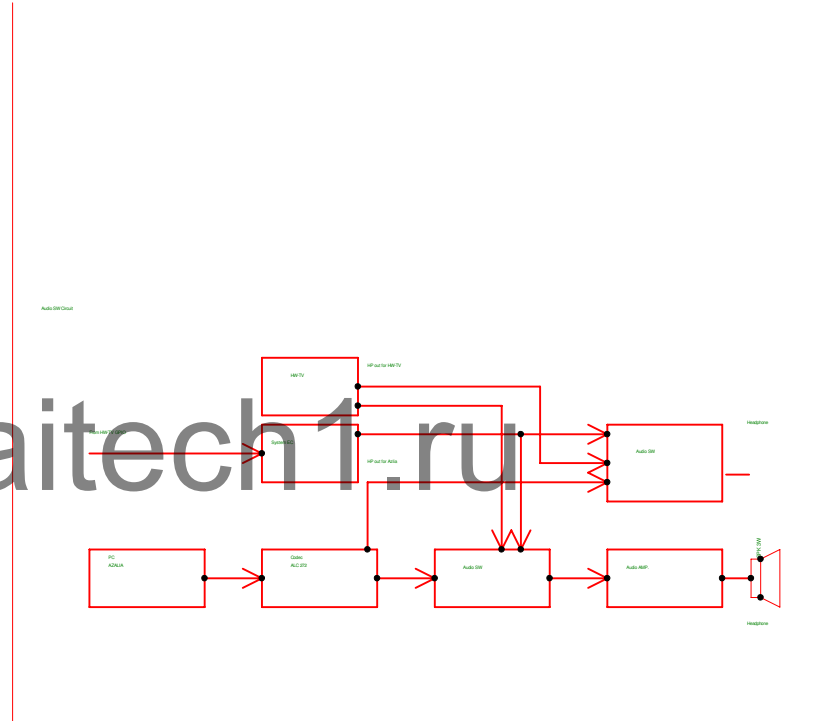
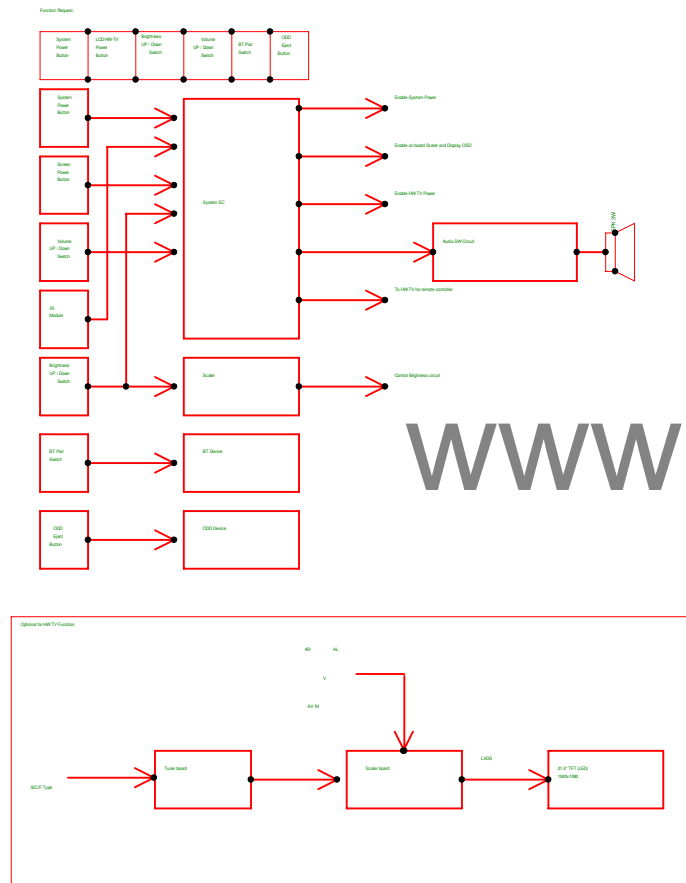
TITLE			
MODEL,PROJECT,FUNCTION BLOCK DIAGRAM			
SIZE	CODE	DOCNUMBER	REV
C	CS	1310XXXXX-D	X01
SHEET		21	of 22

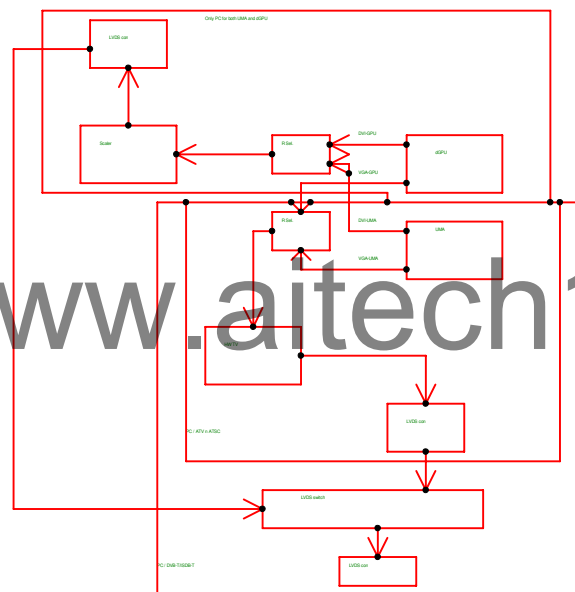


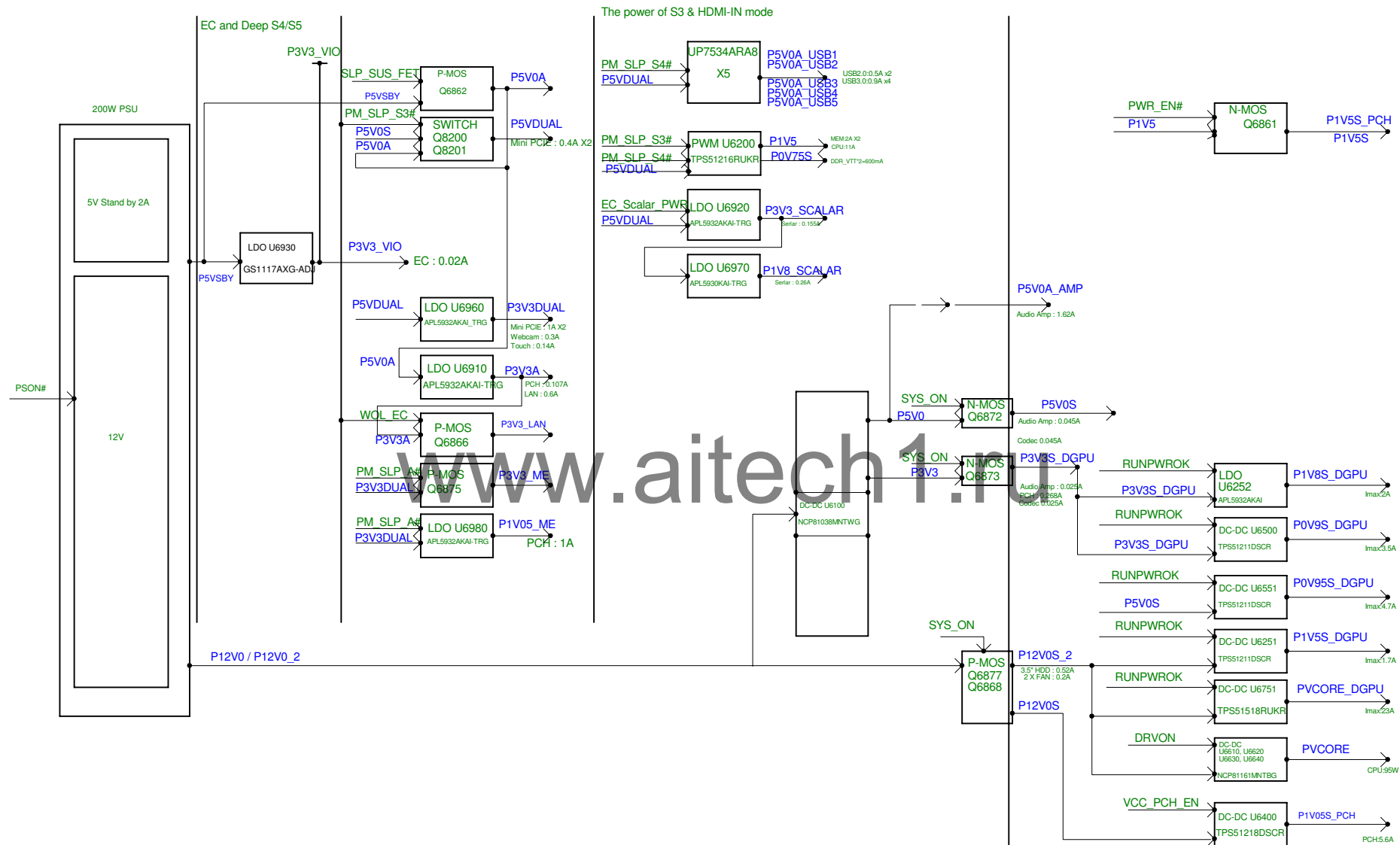
FIDICIAL

www.aitech1.ru

T&I			
TITLE			
MODEL, PROJECT, FUNCTION			
BLOCK DIAGRAM			
SIZE	CODE	DOC NUMBER	REV
C	CS	1310XXXXX-0-0	X01
SHEET		22	of 22







TITLE			
MODEL,PROJECT,FUNCTION			
Block		Diagram	
SIZE	CODE	DOC NUMBER	REV
C	CS	1310xxxxx-0-0	X01
SHEET 75 of 77			

www.aitech1.ru

T&I

TITLE			
MODEL, PROJECT, FUNCTION			
BLOCK DIAGRAM			
SIZE	CODE	DOC NUMBER	REV
C	CS	1310XXXXX-0-0	X01
SHEET		26	of 27

CHANGE BY: yxyx DATE: 22-JULY-2012

REVISION HISTORY

C:Change / D: Delect / A: Add

Symbol	Description	Reason	Page	Note
--------	-------------	--------	------	------

C:Change / D: Delect / A: Add

Symbol	Description	Reason	Page	Note
--------	-------------	--------	------	------

www.aitech1.ru

T&I			
TITLE MODEL,PROJECT,FUNCTION BLOCK DIAGRAM			
SIZE C	CODE CS	DOC NUMBER 1310XXXXX-0-0	REV X01
CHANGED BY xxx		DATE 22-JULY-2012	SHEET 27 of 27