


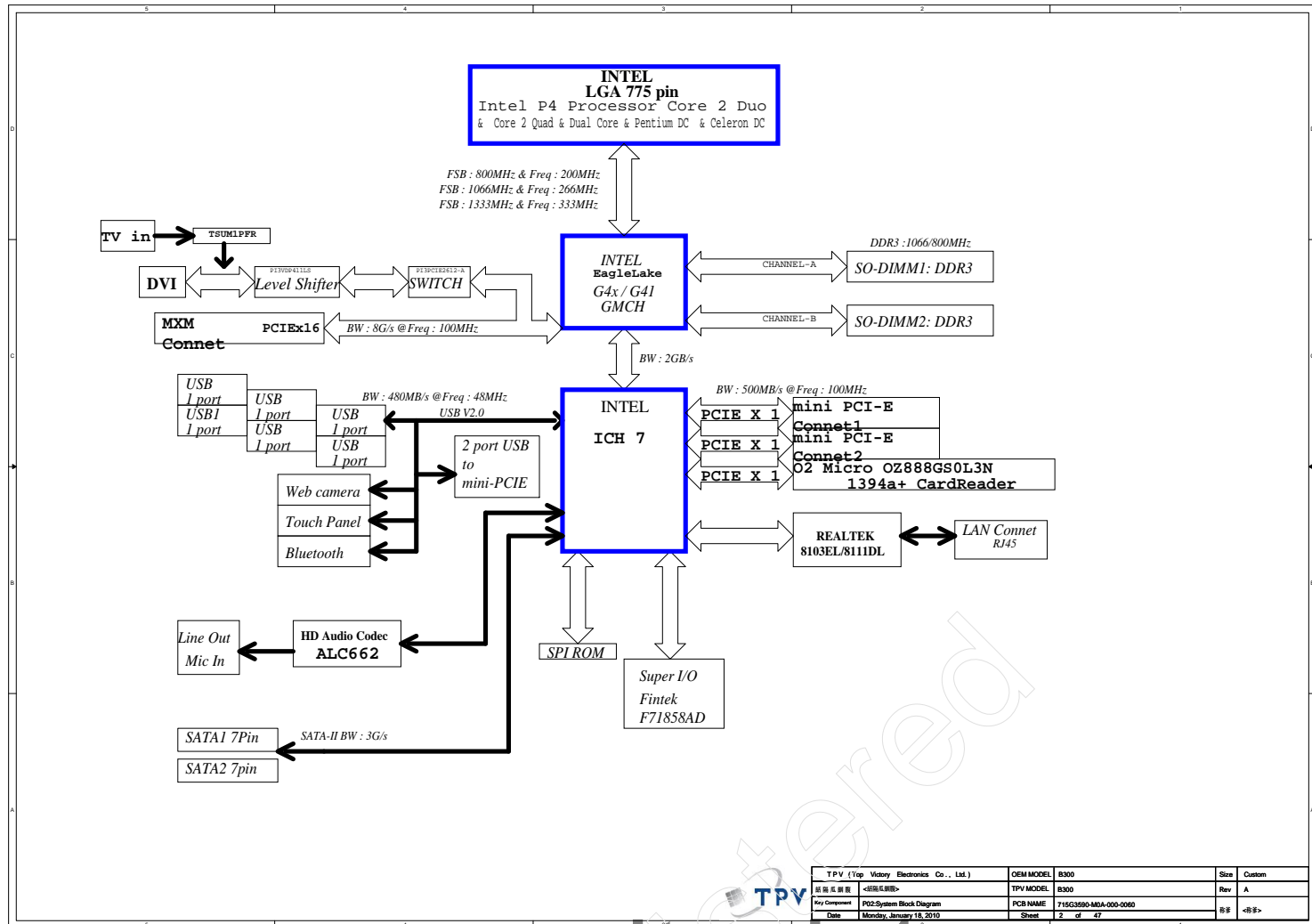
5		4		3		2		1	
D									
C									
B									
A									
5		4		3		2		1	



TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	B300	Size	B
规格书编号 <规格书编号>	TPV MODEL	B300	Rev	A
Key Component P01-COVER SHEET	PCB NAME	715G3590-MDA-000-0060		
Date Monday, January 18, 2010	Sheet	1 of 47		

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TEKNISI INDONESIA



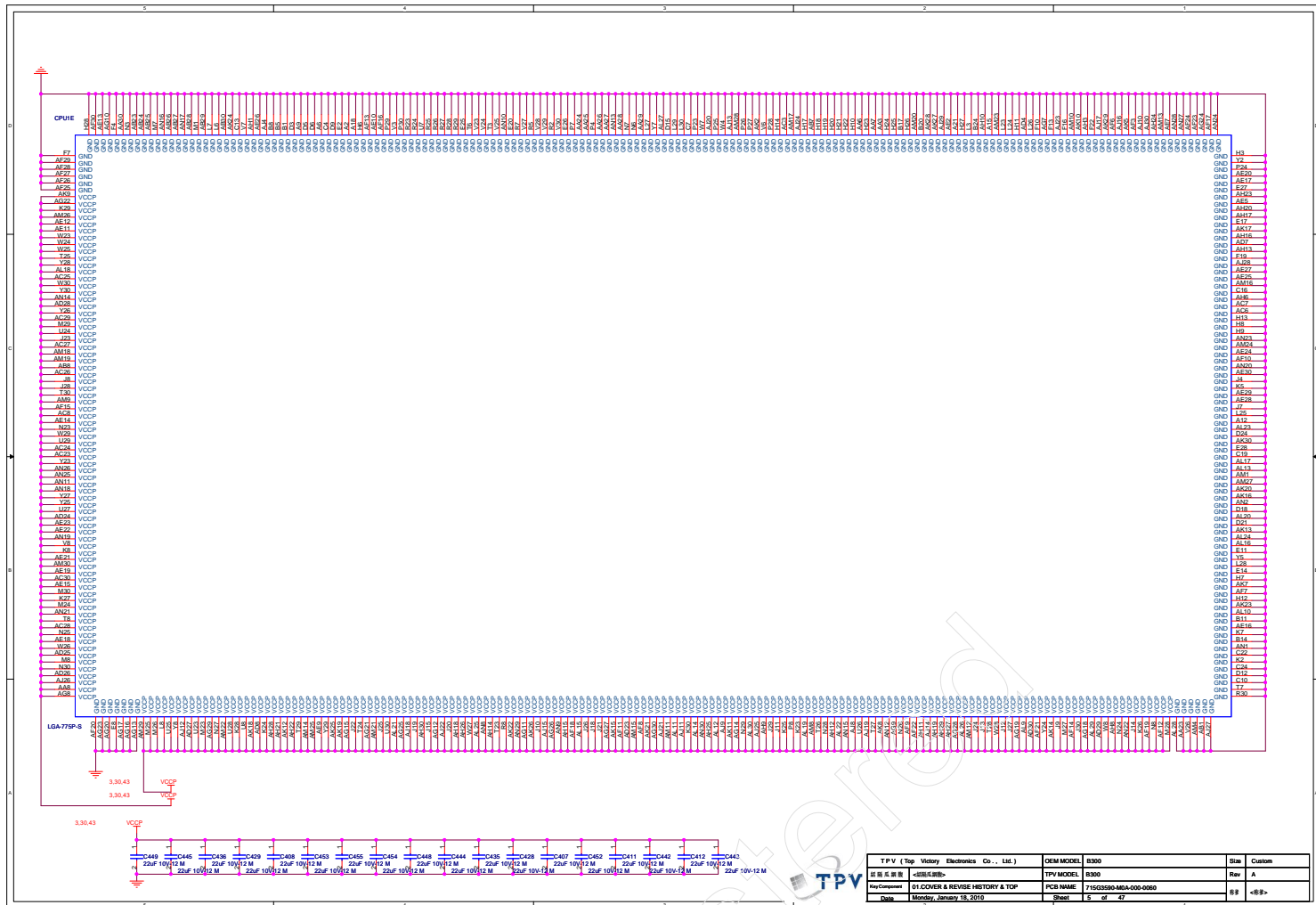
TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	B300	Size	Custom
<B300>	TPV MODEL	B300	Rev	A
Key Comment	P22-System Block Diagram	PCB NAME	715G1590-M0A-000-0080	B/F
Date	Monday, January 18, 2010	Sheet	2 of 47	

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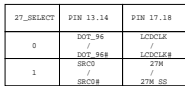


TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	B300	Size	Custom
新開孔圖	<新開孔圖>	TPV MODEL	Rev	A
Key Component	01.COVER & REVERSE HISTORY & TOP	PCB NAME	715G3590-MDA-000-0060	
Date	Monday, January 18, 2010	Sheet	3 of 47	
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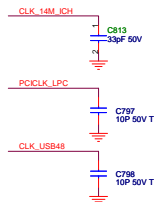




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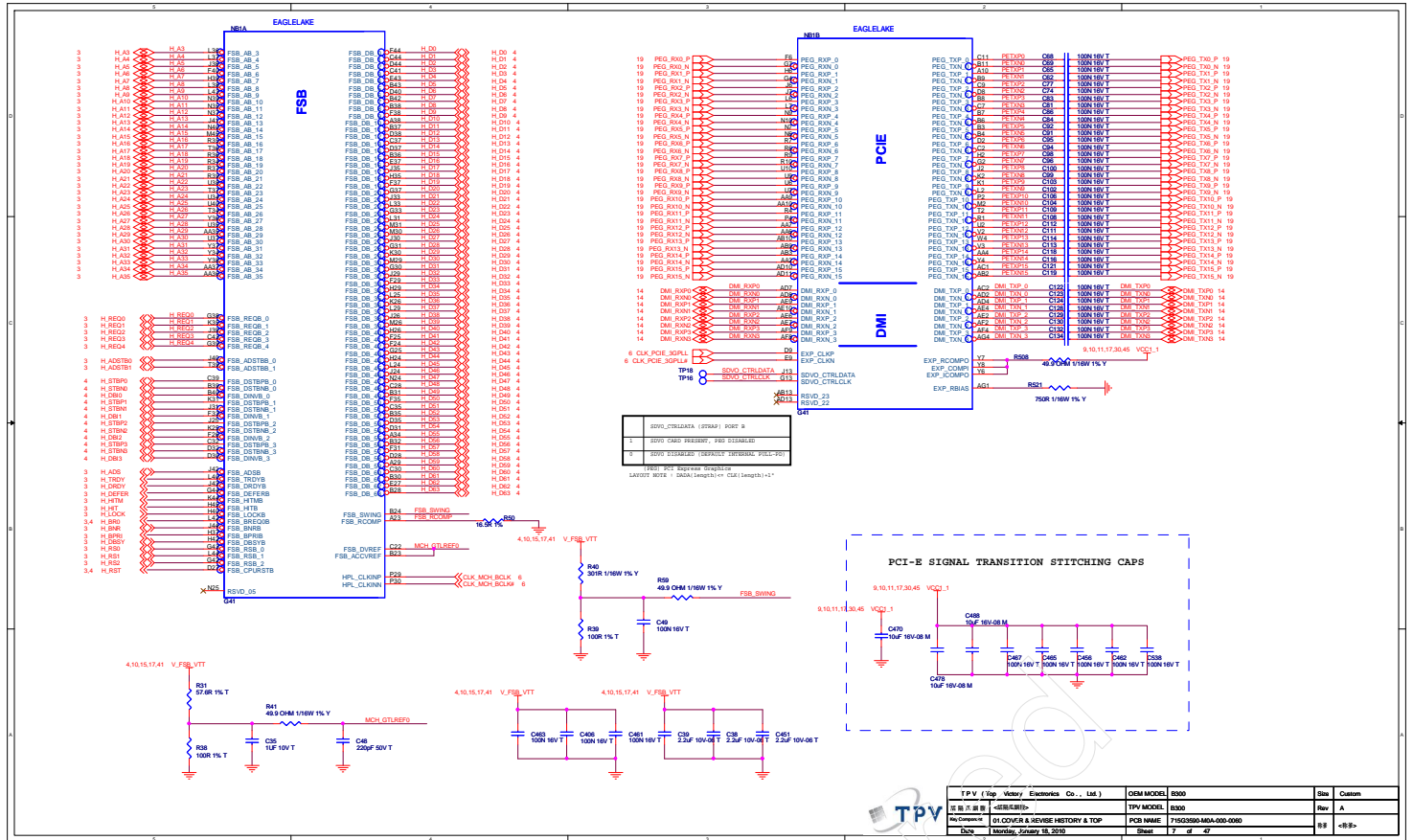
ITD EN	0	1
DIN 46.47	SRC8	ITD



**Note -**  
BIOS should turn off  
unconnected clock  
outputs

CPU, MCB and XDP CLK CLK FREQUENCY SELECTION TABLE			
FSC	FSB	FSA	Host Clock Frequency MHz
RSEL2	BSEL1	BSEL0	
0	1	1	166
0	1	0	200
0	0	0	266

TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	B300	Size	A3
新開瓜編號 <新開瓜編號>	TPV MODEL	B300	Rev	A
Key Component	01.COVER & REVERSE HISTORY & TOP	PCB NAME	71G3690-M0A-000-0060	
Date	Monday, January 18, 2010	Sheet	6 of 47	
		密字	<密字>	



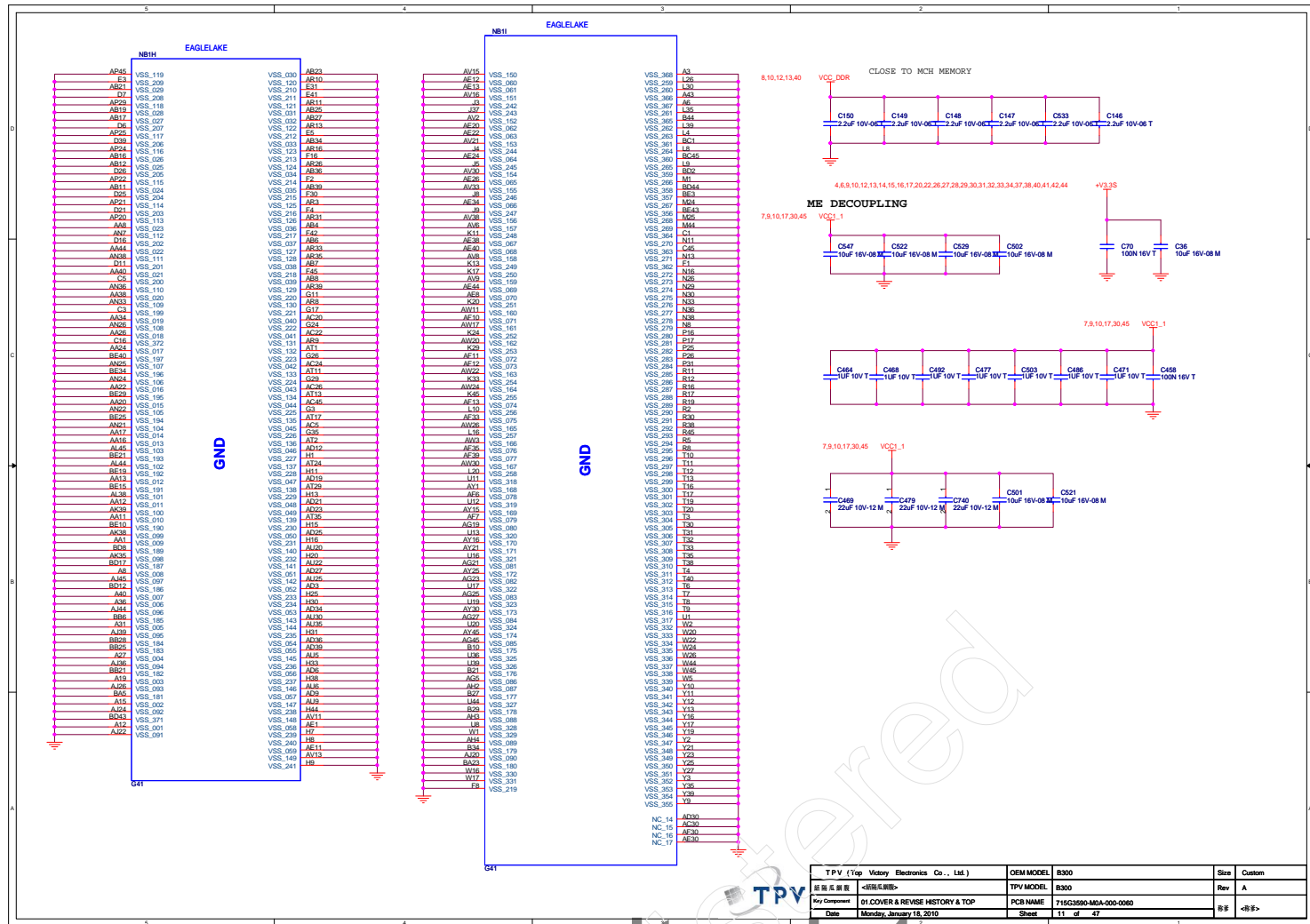
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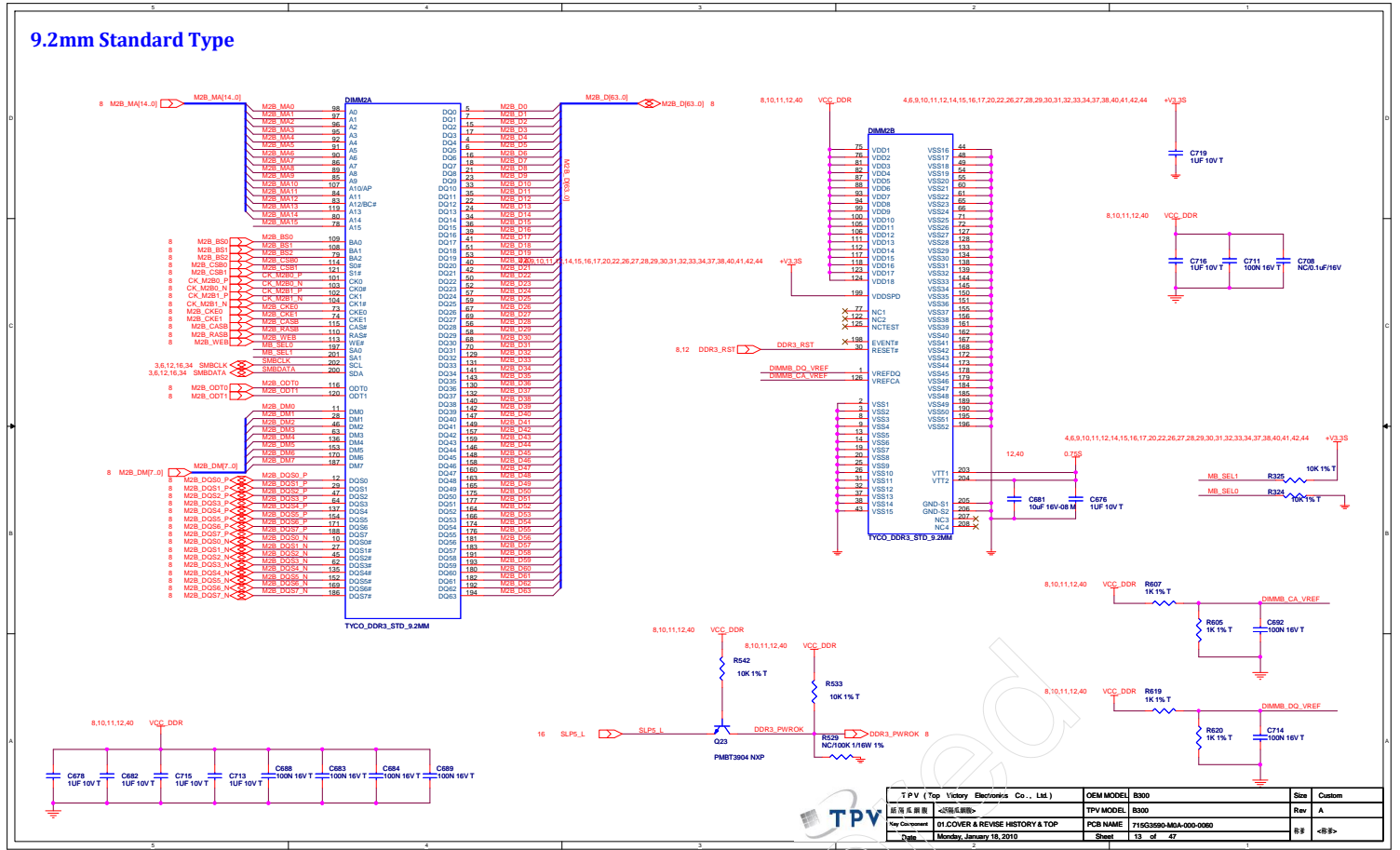
www.aitech1.ru

TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL B300	Size	Custom
TPV MODEL B300	Rev	A	
Key Comment 01 COVER & REVERSE HISTORY & TOP	PCB NAME 715G3590-MGA-000-0080	B/F	<B/F>
Date Monday, January 18, 2010	Sheet 11 of 47		

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## 9.2mm Standard Type



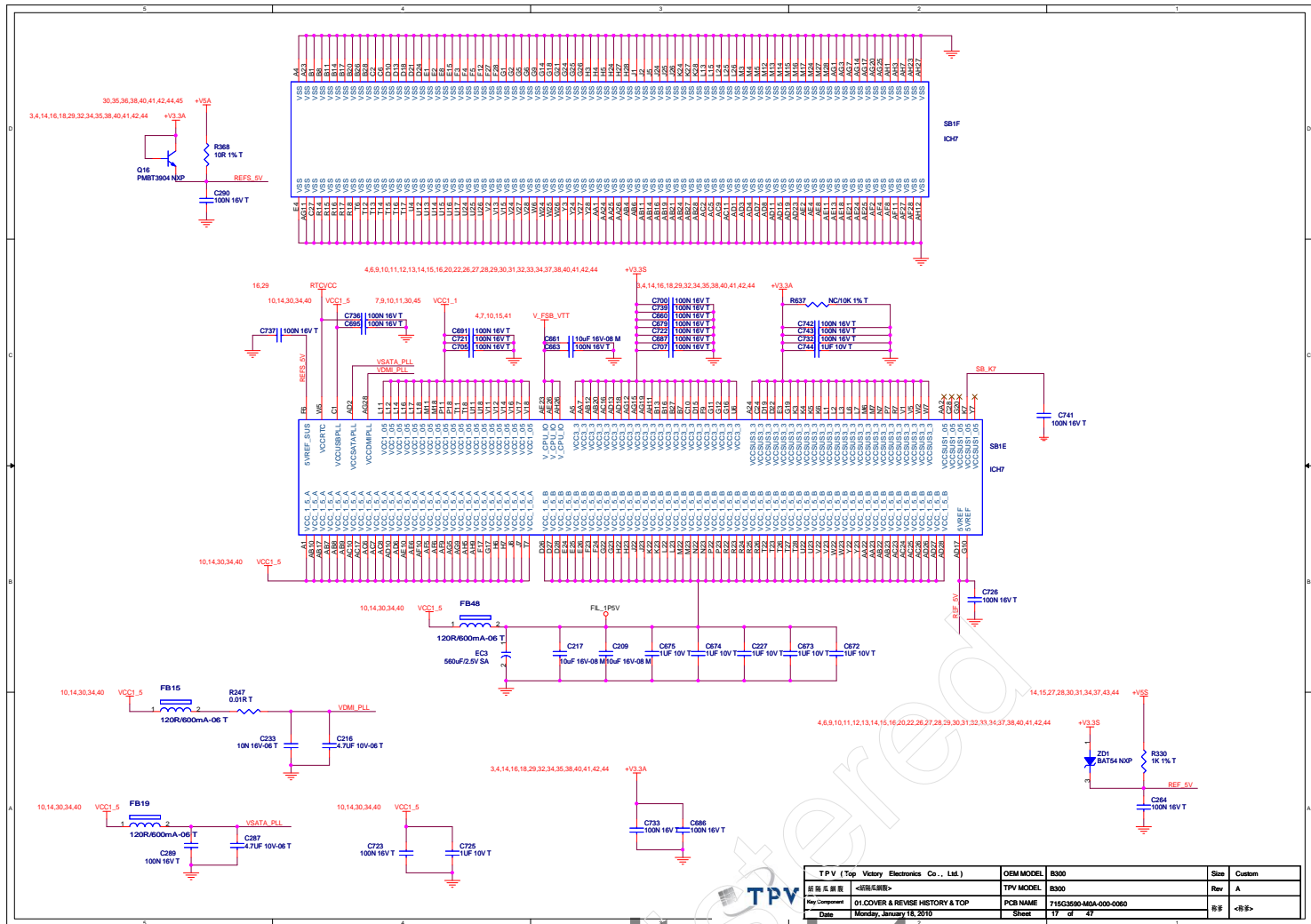
www.aitech1.ru



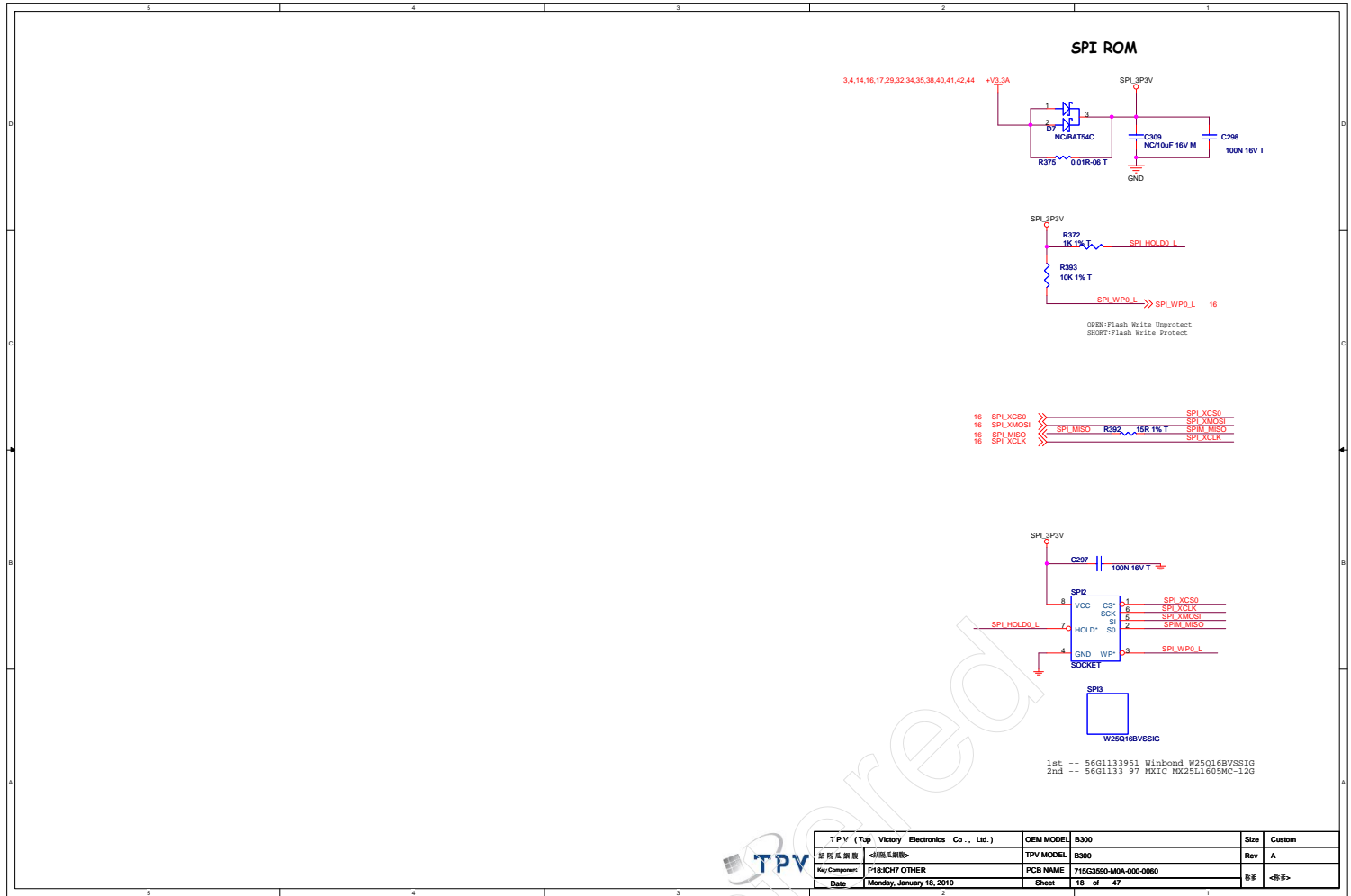




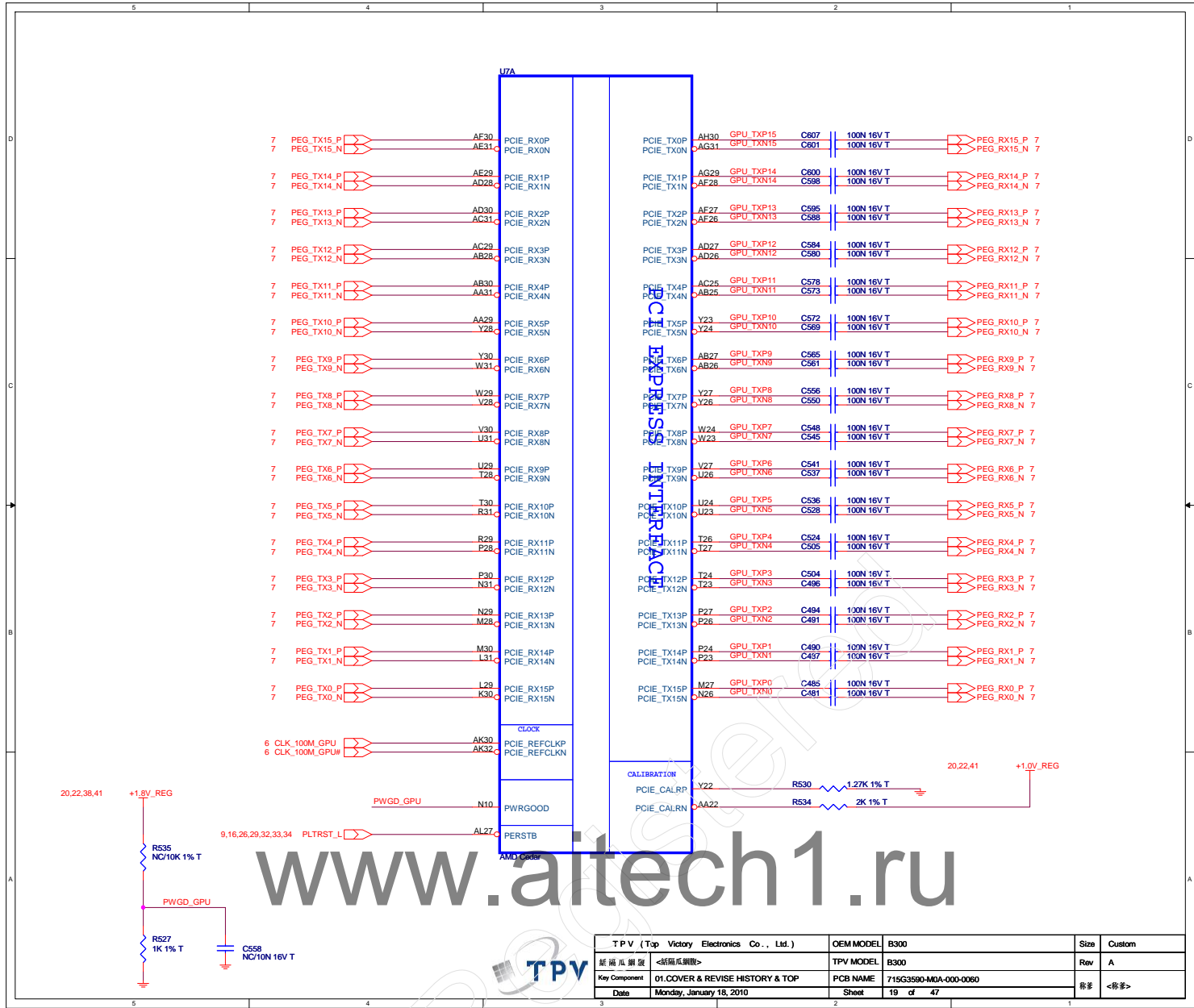




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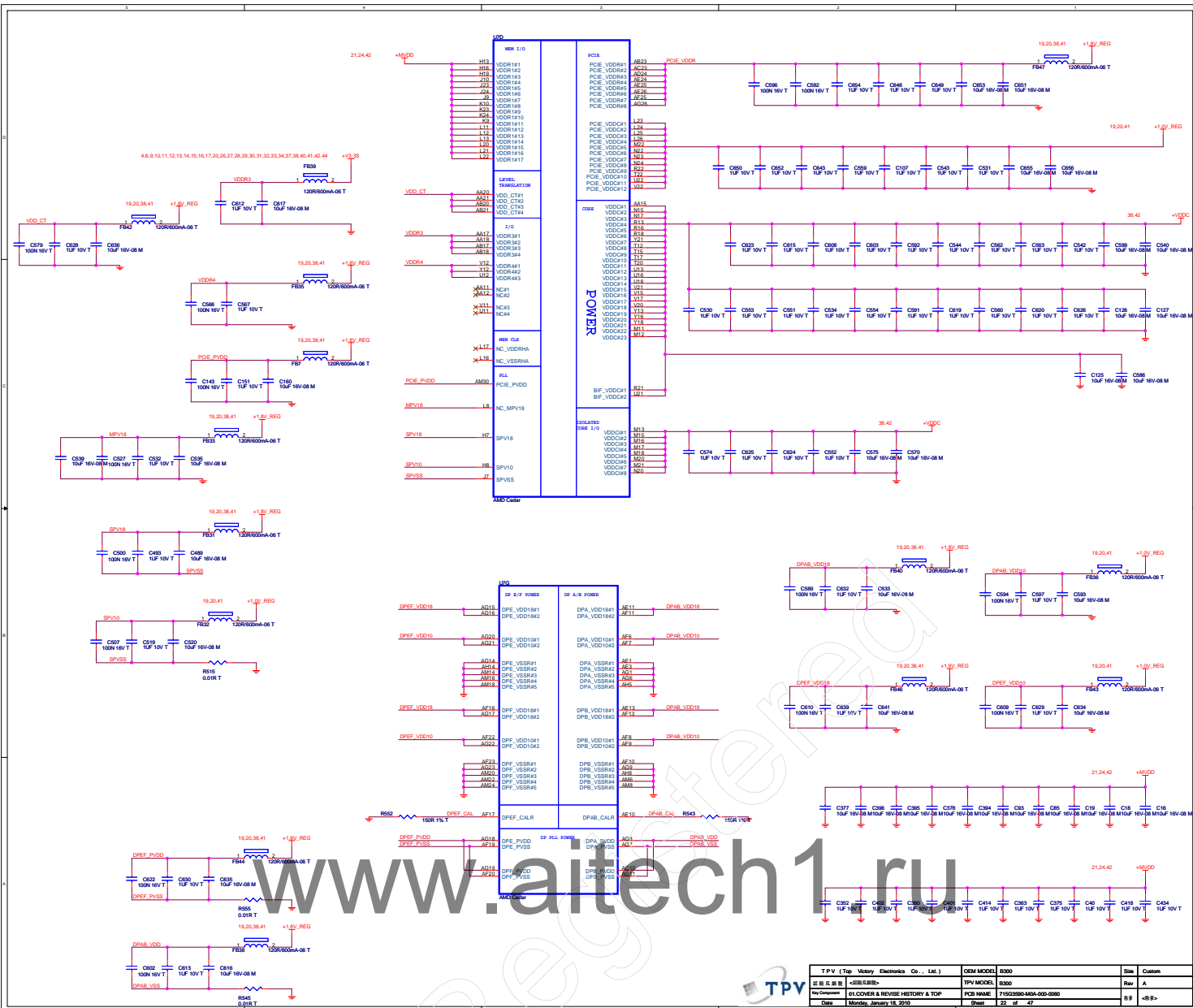


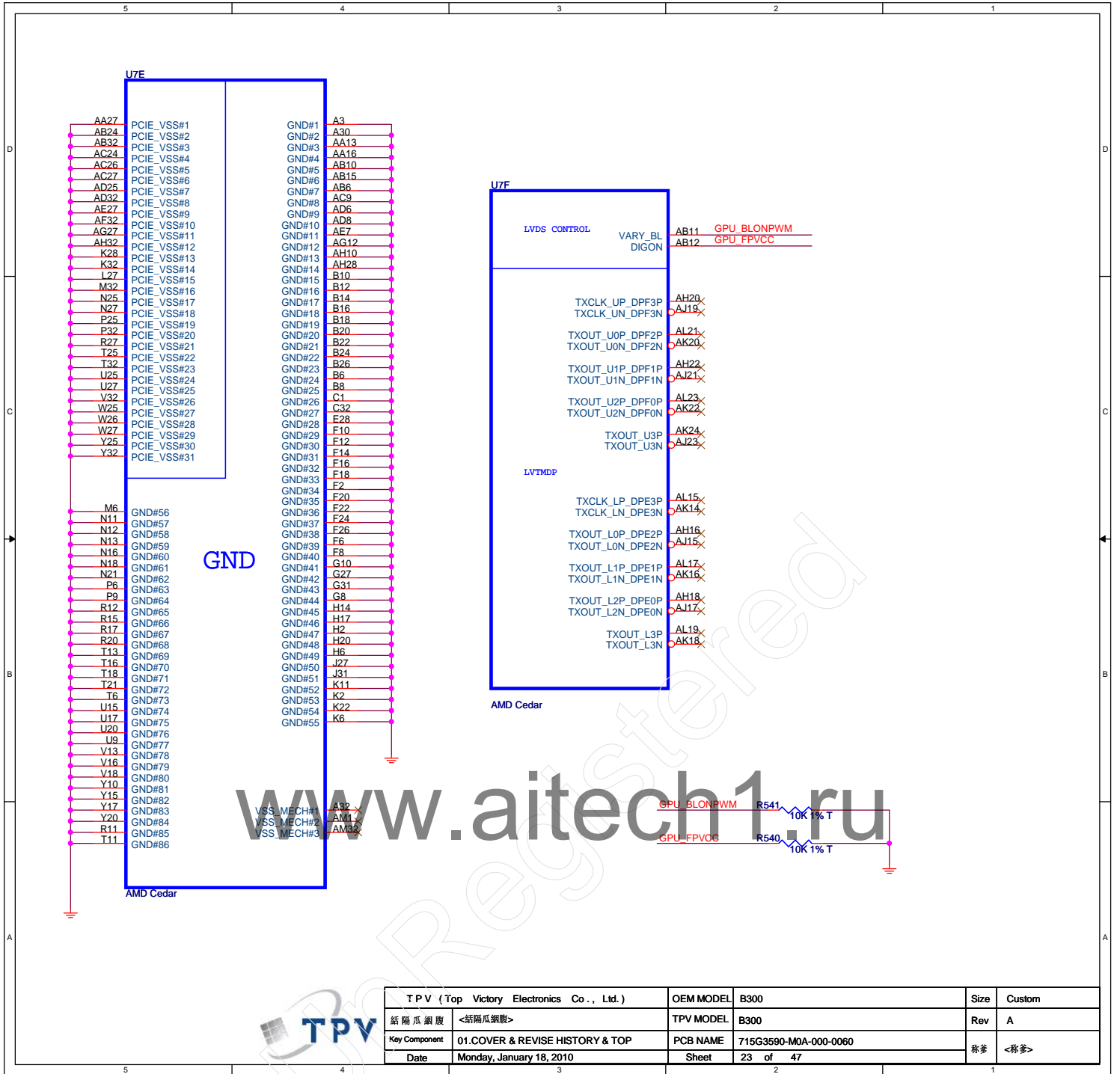
TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	B300	Size	Custom
統帥瓜爾軍	TPV MODEL	B300	Rev	A
Key Component	01.COVER & REVISE HISTORY & TOP	PCB NAME	715G3580-M0A-000-0060	修華
Date	Monday, January 18, 2010	Sheet	19 of 47	<修華>

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TPV (Top Valley Electronics Co., Ltd.)	DEM MODEL	B300	Rev	Custom
TPV MODEL	B300		Rev	A
TPV NAME	71502050-M804-000-0000			
TPV DATE	2018.04.27			
TPV	2018.04.27			







T P V (Top Victory Electronics Co., Ltd.)		OEM MODEL	B300	Size	Custom
結構圖網表	<結構圖網表>	TPV MODEL	B300	Rev	A
Key Component	01.COVER & REVISE HISTORY & TOP	PCB NAME	715G3590-MQA-000-0060	称爹	<称爹>
Date	Monday, January 18, 2010	Sheet	23 of 47		





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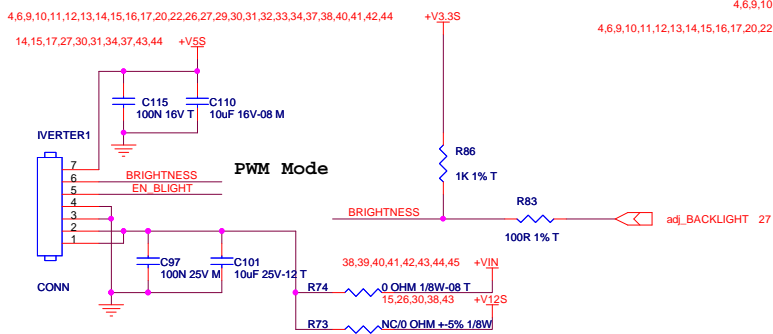


TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	B300	Size	B
规格书标题 <规格书标题>		TPV MODEL	B300	Rev	A
Key Component	01.COVER & REVISE HISTORY & TOP	PCB NAME	71G3590-M0A-000-0060	料号	<料号>
Date	Monday, January 18, 2010	Sheet	26 of 47		

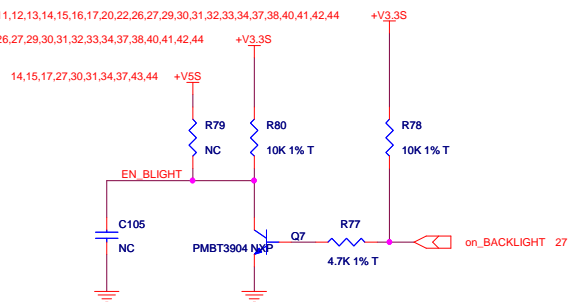
[www.aitech1.ru](http://www.aitech1.ru)



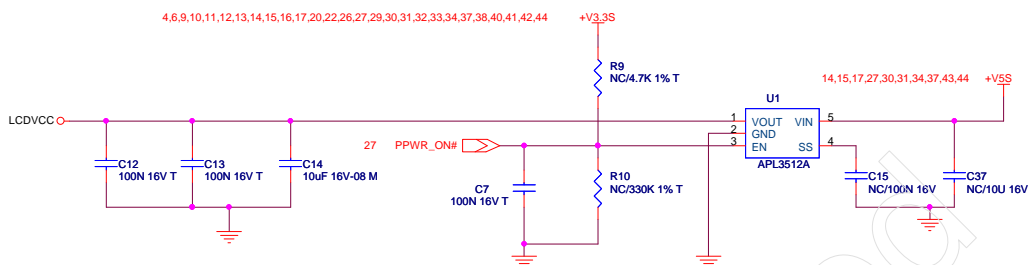
## BRIGHTNESS CONTROL



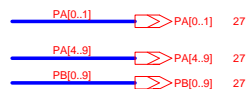
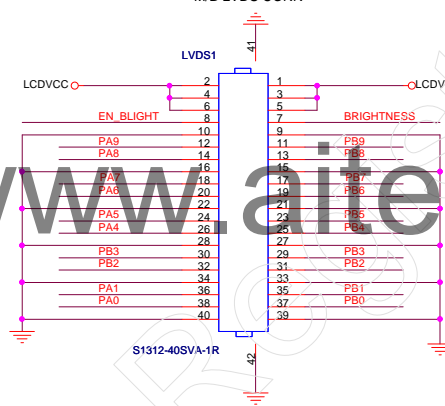
## BACKLIGHT ENABLE



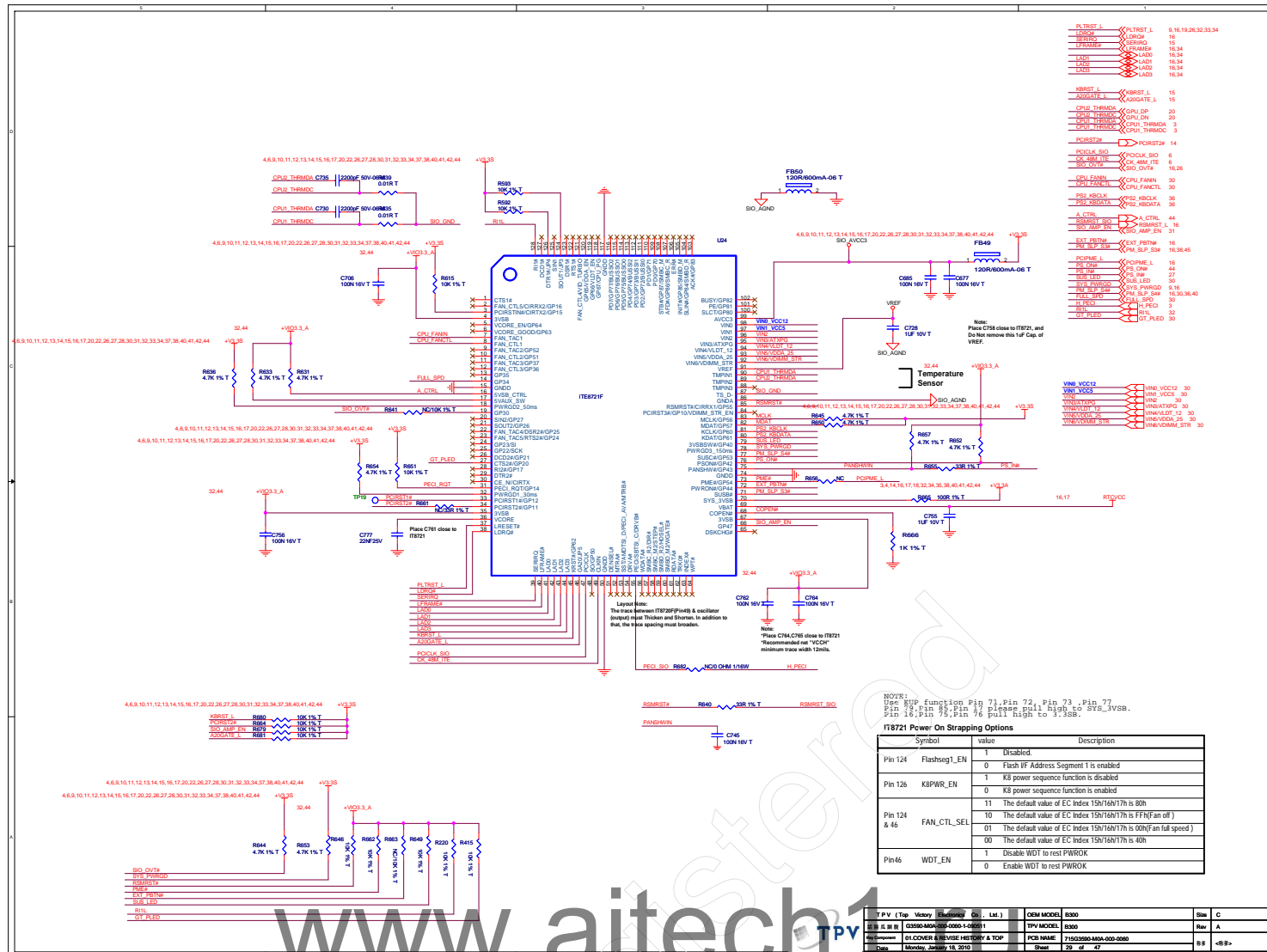
## PANEL VCC CONTROL



## M/B LVDS CONN



TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	B300	Size	Custom
話筒瓜 銅版	TPV MODEL	B300	Rev	A
Key Component	01.COVER & REVISE HISTORY & TOP	PCB NAME	715G3590-M0A-000-0060	移參
Date	Monday, January 18, 2010	Sheet	28 of 47	<移參>





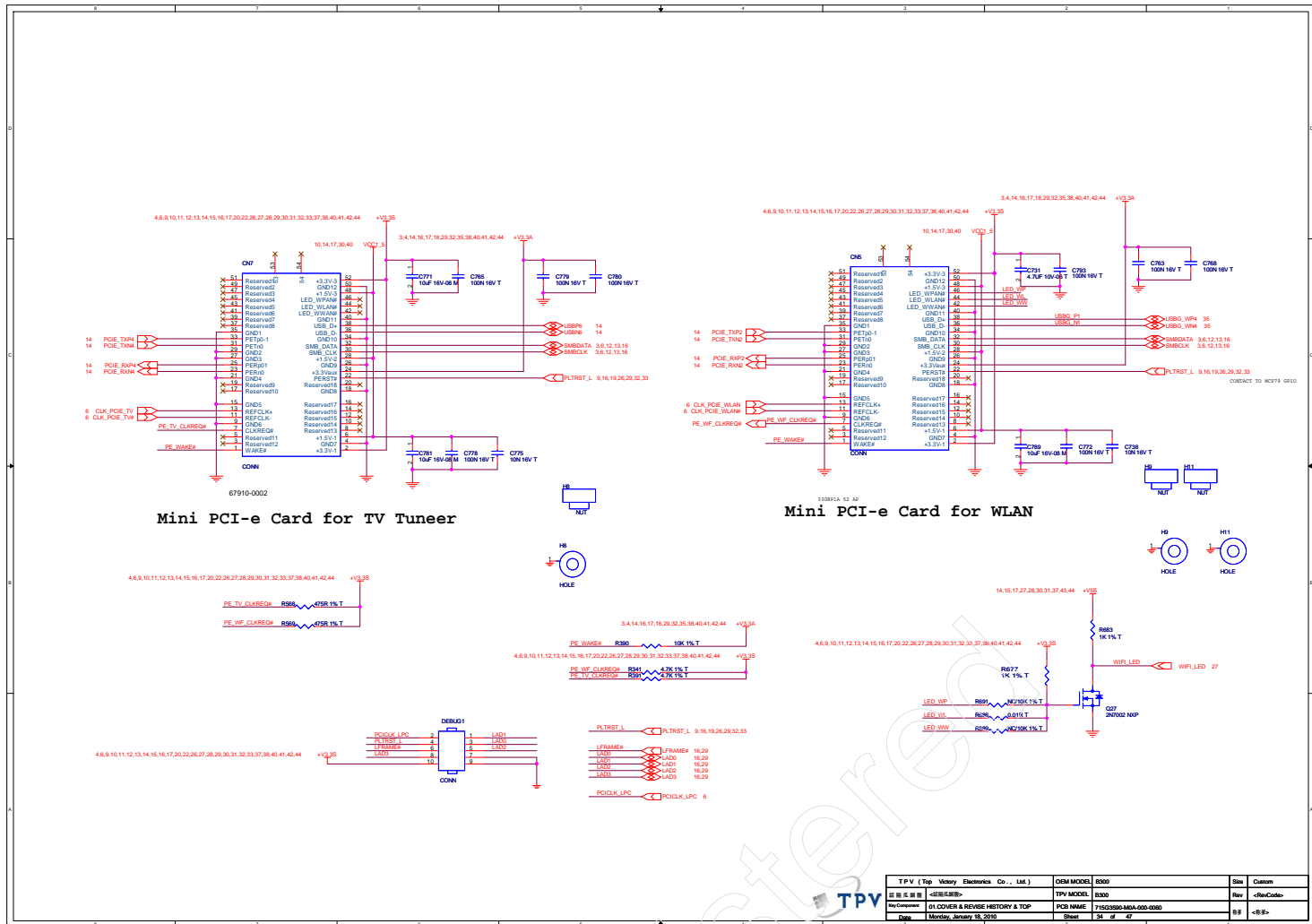


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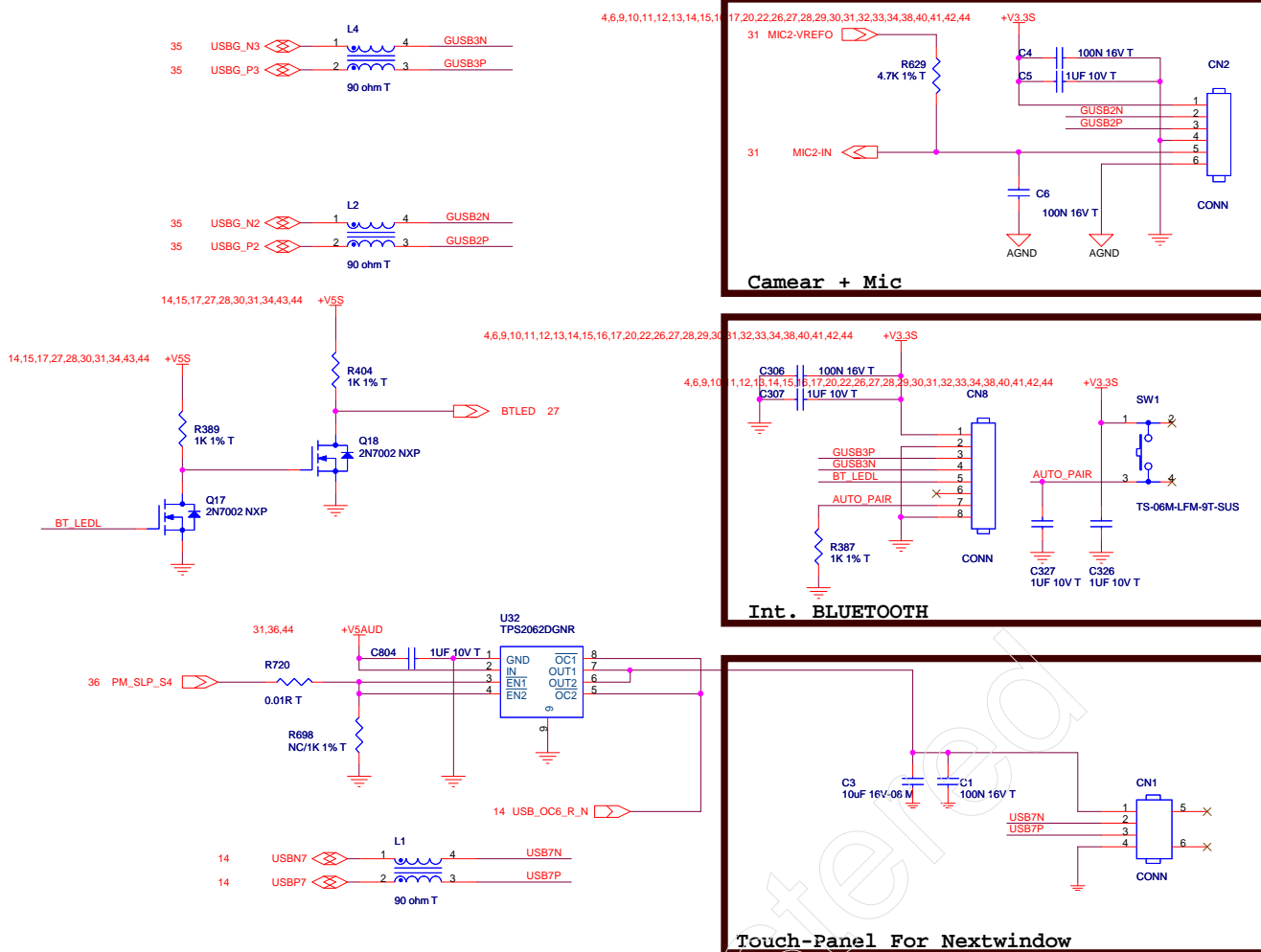
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TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	B300	Size	Custom
銘南瓜製版	G3590-M0A-000-0060-1-090511	TPV MODEL	B300	Rev
Key Component	01.COVER & REVISE HISTORY & TOP	PCB NAME	715G3590-M0A-000-0060	Rev
Date	Monday, January 18, 2010	Sheet	37 of 47	<移参>

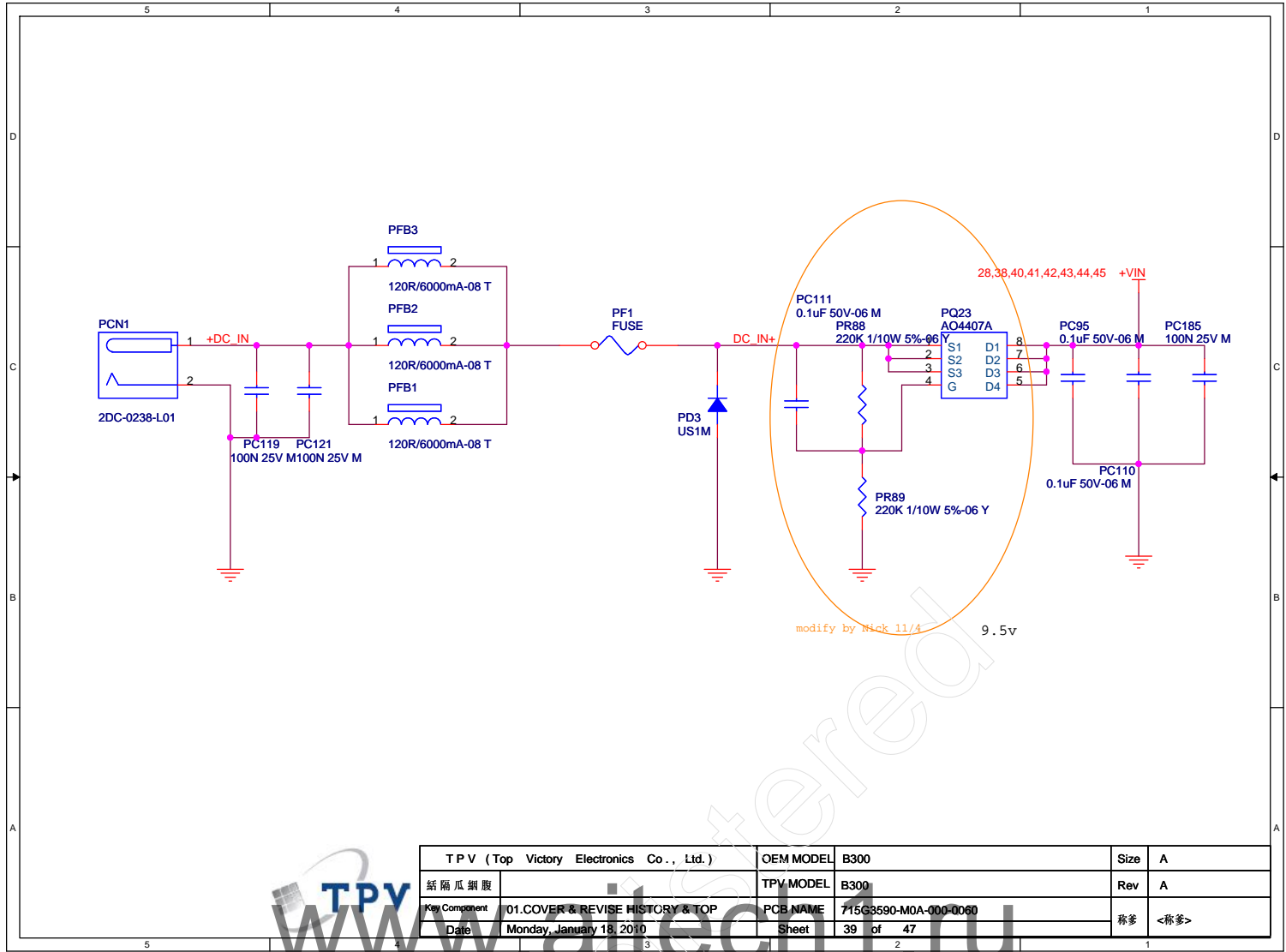
## Camear + Mic

## Int. BLUETOOTH

## Touch-Panel For Nextwindow



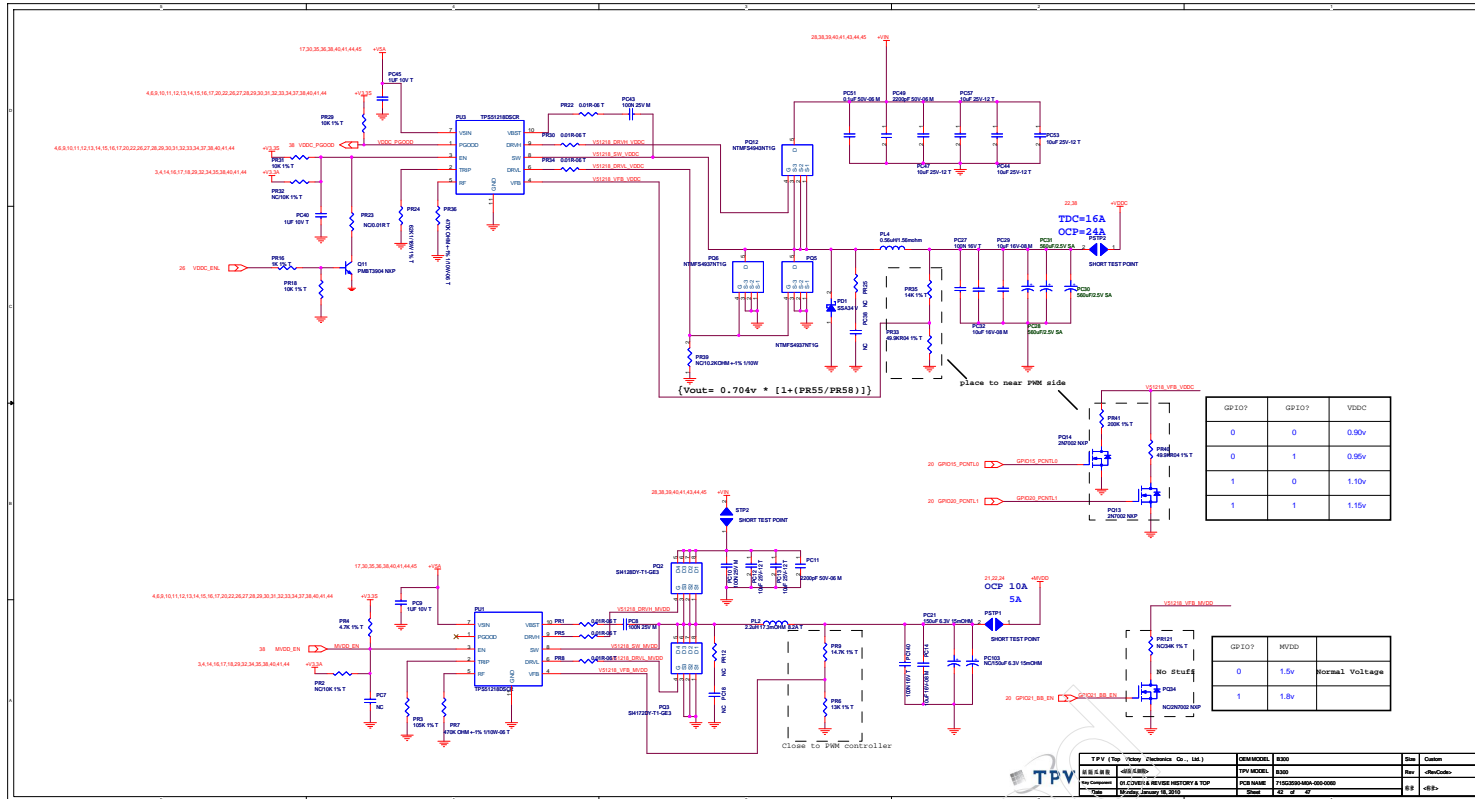








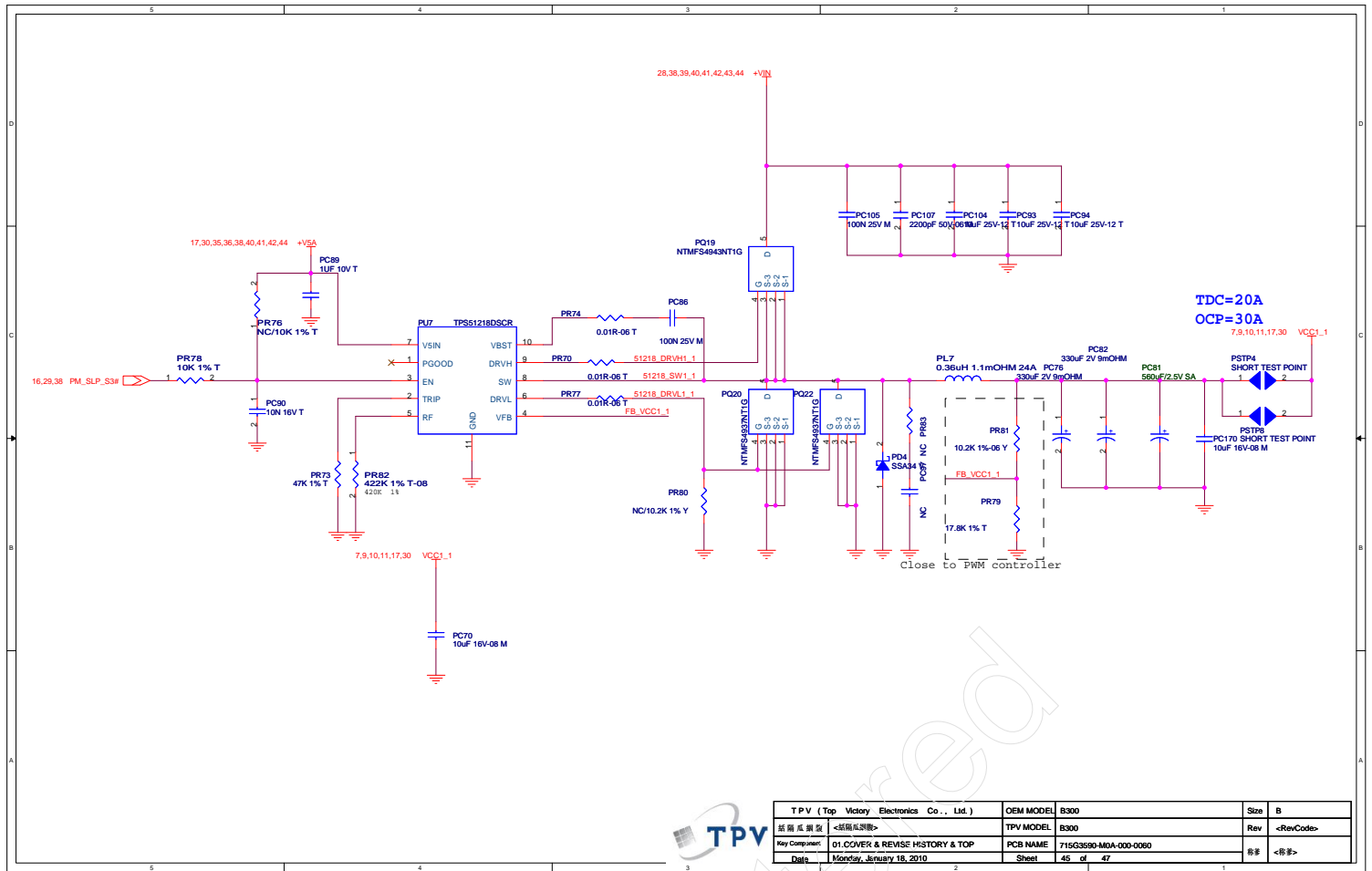




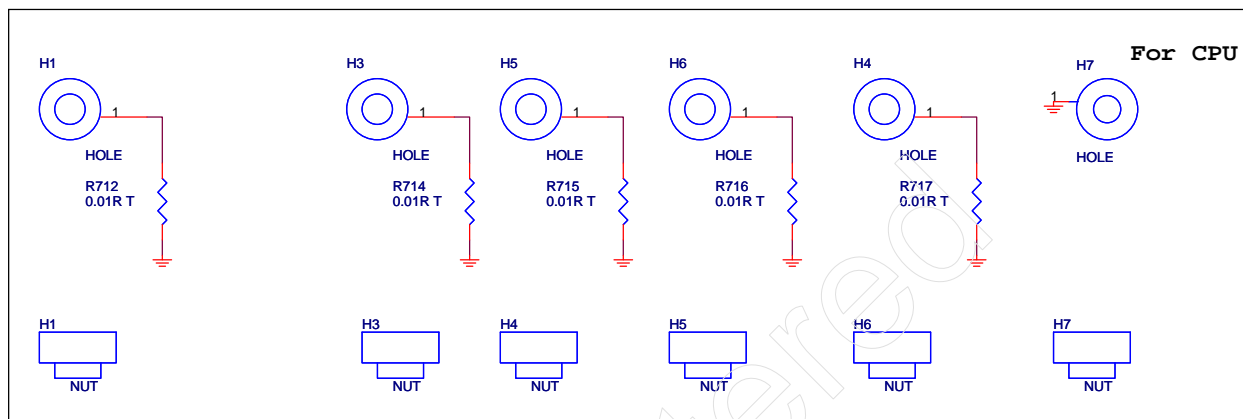
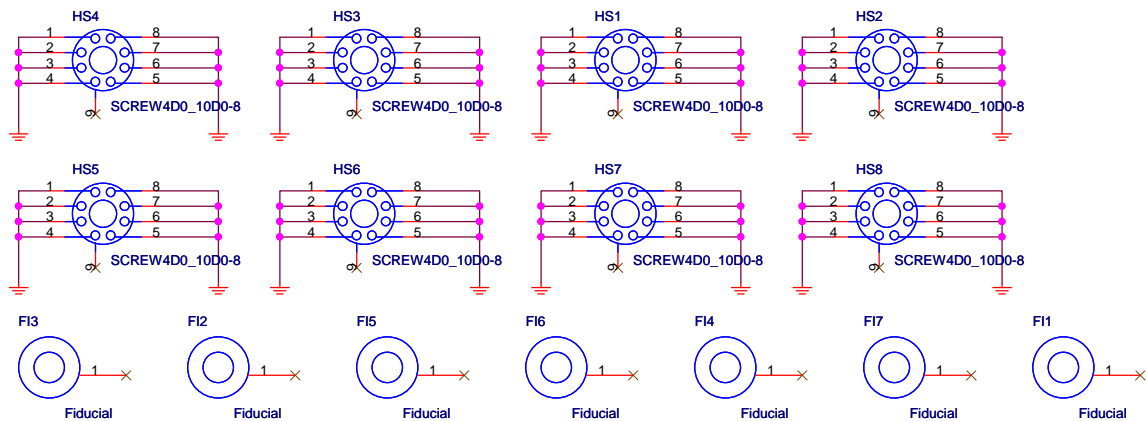
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For CPU

TPV (Top Victory Electronics Co., Ltd.)	OEM MODEL	B300	Size	A
結構瓜網腹 <結構瓜網腹>	TPV MODEL	B300	Rev	A
Key Component	01.COVER & REVISE HISTORY & TOP	PCB NAME	715G3590-M0A-000-0060	稱參 <稱參>
Date	Monday, January 18, 2010	Sheet	46 of 47	

REV:0.1

11-16-2009

01-New Building

11-17-2009

01.P28 :Pin 1,2 of Iverter1 Connect +V12S Change to +VIN ---- From Inverter Engineer Suggestion  
02.P28 :C4207 From C0805 Change to C1206  
03.P40 :PC26,PC27 From C0402 Change to C0805  
04.P47 :PC145 From C0402 Change to C0805  
05.P17 :SB1 Pin K7 Add a Cap -- C4214  
06.P14 :SB1 Pin B19 Add a Resistor ---- R1607  
07.P09: NB1 Pin G15 Add a Resistor ---- R1608  
08.P03: CPU1 Pin AL7 Connect to GND  
09.P03: CPU1 Pin AL8 Connect to VCCP  
10.P37: dal D20 , Add SW  
11.P08: Net Name --CK\_MDA1\_P,CK\_MDA1\_M From NB1 Pin AW29,AV29 Change to NB1 Pin AV37,AV37  
12.P08: Net Name --CK\_MGB1\_P,CK\_MGB1\_M From NB1 Pin AV31,AW35 Change to NB1 Pin AW35,AV35

11-18-2009

01.P47 :Revise LAN1 Footprint -- R345  
02.P13 :Revise DIMM2 Footprint -- D083  
03.P45 :PL7 From 4.7uH Change to 2.2uH -- From Power Team Suggestion  
04.P45 :PL8 From 4.7uH Change to 2.2uH -- From Power Team Suggestion  
05.P45 :PR128 From 100K ohm Change to 110K ohm -- From Power Team Suggestion  
06.P45 :PR127 From 110K ohm Change to 127K ohm -- From Power Team Suggestion  
07.P41 :R67 From 58K ohm Change to 40.2K ohm -- From Power Team Suggestion  
08.P41 :Add a Connector for SATA Power Connector :SATAPW1  
09.P46 :Add Hole on Main Board

11-19-2009

01.P09 :R140 Stuff 1K to GND ---- PCIE x16 Reverse  
02.P19 :GPU PCIE X16 Reserve for Layout ---- From Layout Suggestion  
03.P33 :R1425 No Stuff ---- From Jmicron Suggestion  
04.P33 :R1426 From 200K Change to 10K ---- From Jmicron Suggestion  
05.P31 :PB69 From +V5S Change to +V5A For De-Pop ---- From Realtek Suggestion  
06.P31 :PB26 From +V5S Change to +V5A For De-Pop ---- From Realtek Suggestion  
07.P04 :R53 From VTT\_OUT\_R Change to V\_PSR\_VTT  
08.P16 :SB1 Pin AW3 Connect Net Name -- R\_DSRLS\_L  
09.P04 :R55,R56,R57,R58 From Connect Net Name -- VTT\_OUT\_L Change to Net Name -- VTT\_OUT\_L  
10.P03 :Stuff R30,R31 and From Connect Net Name -- VTT\_OUT\_L Change to GND  
11.P03 :Add 0 ohm on CPU1 Pin AL8 and AL7 ---- Follow G41 For D083 ATX Platform REV1.0 Suggestion  
12.P03 :Add 0 ohm on Net Name -- H\_EKTOCC to GND and No Stuff R38  
13.P03 :Stuff R37 130 ohm  
14.P16 :Add a 8.2K ohm on Net Name --SVS\_RST\_L to +V3.3A  
15.P04 :R76,R77,R78 From 470K ohm Change to 470 ohm  
16.P03 :R25,R26,R27,R28,R29 Connect Net Name -- R\_1P5V Change to GND ---- Follow G41 For D083 ATX Platform REV1.0 Suggestion

11-20-2009

01.P55 :D52 From GL854G Change to GL852G

11-23-2009

01.P36 :USBV1 -- USBV4 Change to Lenovo AVL Material -- 88G 352 11V5V  
02.P36 :USBM1 -- USBM2 Change to Lenovo AVL Material -- 88G 352 12.5V  
03.P33 :1394A1 Pin 1 From Connect Net -- TPBIM Change to Net -- TDAIP  
04.P33 :1394A1 Pin 2 From Connect Net -- TPBIM Change to Net -- TDAIM  
05.P33 :1394A1 Pin 3 From Connect Net -- TDAIM Change to Net -- TPBIM  
06.P33 :1394A1 Pin 4 From Connect Net -- TDAIP Change to Net -- TPBIM  
07.P36 :CN17 Change to Lenovo AVL Material -- 88G 361 2 FA  
08.P31 :CN7 Change to Lenovo AVL Material -- 88G 302 78 SY  
09.P31 :CN8 Change to Lenovo AVL Material -- 88G 302 79 SY  
10.P32 :D47 Change to Lenovo AVL Material -- 5602233151  
10.P27 :D42 Change to Lenovo AVL Material -- 56022331 4  
12-22-2009  
01.P31 :Material Number of CM4 From 88G 302 78 SY Change to 88G 302756  
02.P31 :Material Number of CM6 From 88G 302 79 SY Change to 88G 302765  
03.P39 :PCN1 add a material number -88G 304 17 ST

REV:0.2

12-24-2009

01.P18 :SP12 From 56G1133951 Change to 56G1133951 on AI Layer  
02.P18 :Add SP13  
03.P20 :SP11 From 56G1133951 Change to 56G1133949  
04.P12 :Net Name - CK\_MDA1\_P/CK\_MDA1\_M From DIMM1 Pin 101,103 Change to Pin 102,104 --- Follow Intel Doc #367652 Table 6-14  
05.P12 :Net Name - CK\_MDA2\_P/CK\_MDA2\_M From DIMM1 Pin 102,104 Change to Pin 101,103 --- Follow Intel Doc #367652 Table 6-14

12-30-2009

01.P33 :R252 Add 610G4021002FI ---- Follow Jmicron Suggestion  
02.P33 :R289 , R292 Add 610G4020000 FI ---- Follow Jmicron Suggestion  
03.P33 :Remove R255 , R256 ---- Follow Jmicron Suggestion  
04.P33 :R262 material number From 610G4021002FI Change to 610G4021002FI ---- Follow Jmicron Suggestion

01-07-2010

01.P33 :R252 Add 610G4021002FI ---- Follow Jmicron Suggestion  
01-10-2010

01.P34 :MUT H4 Change to HT , H3 Change to HS  
02.P16 :Remove R588 ---- For Power Lose  
03.P41 :Remove PQ34,PR121 ---- +MDD 1.5V  
04.P07 :R50 material number From 610G4021652FY Change to 610G4021659FI  
05.P36 :USBM1 , USBM2 mirror vertically ---- For Suyin USB Right Angle Reverse Type Pin Definition  
06.P27 :Add D1 R8501V-40 ---- For D-SUB Using  
07.P41 :Remove PR114,PQ12 ---- V\_PSR\_VTT use +1.2V  
08.P41 :PR117 material number From 610G4027501FI Change to 610G4029531FI ---- V\_PSR\_VTT use +1.2V  
09.P09 :R56,R57,R58 material number From 610G4021500FI Change to 610G4027509FI  
10.P06 :Move R548,R569 to Page 34 ,and Add it Pull-High to +V3.3S  
11.P34 :CN7 change to connect PCIE x1 Port 4  
12.P29 :Remove R561  
13.P20 :Remove R539  
14.P20 :Add R554 610G4021002FI  
15.P27 :Remove C385, and R465 material number Form 610G4021002FI Change to 610G4020000 FI ---- For Scalar Backlight  
16.P28 :Remove R10  
17.P42 :Remove PR23  
18.P16 :Add R591 material number 610G4020000 FI ---- For Enable SPI Write  
19.P16 :Add R718,R719 610G4028201FI for GD08 and GD014  
20.P27 :R705 material number From 610G8052200FI Change to 610G8051001FY  
21.P20 :Net name -- Q\_R0M2C Add a R721 Pull-High to +V3.3S  
22.P27 :Remove R415,R416  
23.P21 :R524 Change to 0 Ohm ---- Follow AMD Suggestion  
24.P34 :R677 Change to 1K---- Follow AMD Suggestion  
25.P40 :PR71 From 56K Change to 39K ---- Follow Power Team Suggestion  
26.P40 :Revise PQ41,PQ18,PQ17 Symbol ---- Follow Power Team Suggestion  
27.P40 :Add PR59 2.2 Ohm R085 and PC74 2200PF ---- Follow Power Team Suggestion  
28.P40 :PR68 From 14.7K Change to 14.1K ---- Follow Power Team Suggestion  
29.P40 :PR67 From 13K Change to 12.4K ---- Follow Power Team Suggestion  
30.P40 :Remove STP7 then short it ---- Follow Power Team Suggestion  
31.P38 :Revise PQ11,PQ15,PQ16 Symbol ---- Follow Power Team Suggestion  
32.P38 :Revise PQ11,PQ15,PQ16 Symbol ---- Follow Power Team Suggestion  
33.P38 :Add PR45 2.2 Ohm and PC81 2200PF ---- Follow Power Team Suggestion  
34.P38 :Remove STP5,STP6 then short it ---- Follow Power Team Suggestion  
35.P41 :Revise PQ31,PQ13 Symbol ---- Follow Power Team Suggestion  
36.P41 :Add PR119 2.2 Ohm and PC138 2200PF ---- Follow Power Team Suggestion  
37.P41 :Remove STP11 then short it ---- Follow Power Team Suggestion  
38.P42 :Remove STP4,STP2 then short it ---- Follow Power Team Suggestion  
39.P42 :Revise PQ12,PQ6,PQ5,PQ2,PQ3 Symbol ---- Follow Power Team Suggestion  
40.P43 :PU10,PU11 Change to ISL6620ACBE ---- Follow Power Team Suggestion  
41.P43 :PR120,PR123 From 2.2 ohm Change to 0 ohm ---- Follow Power Team Suggestion  
42.P43 :Remove STP1,STP3 then short it ---- Follow Power Team Suggestion  
43.P43 :Revise PQ1,PQ4,PQ36,PQ35,PQ37,PQ38 Symbol ---- Follow Power Team Suggestion  
44.P44 :Revise PQ42,PQ45,PQ46,PQ39,PQ24,PQ27 Symbol ---- Follow Power Team Suggestion  
45.P44 :P16,P110 Change footprint ---- Follow Power Team Suggestion  
46.P45 :PR73 From 76K Change to 47K ---- Follow Power Team Suggestion  
47.P45 :Remove STP8 then short it ---- Follow Power Team Suggestion  
48.P45 :Revise PQ19,PQ20,PQ22 Symbol ---- Follow Power Team Suggestion  
49.P33 :1394A1Pin1 and Pin1 Signal swap , Pin1 and Pin3 Signal swap  
50.P15 :SATA1,SATA2 Change to SATA DID Vertical

01-15-2010

01.P31 :SPK Pin 1 connect Net -- SPK\_L+  
02.P31 :SPK Pin 2 connect Net -- SPK\_L-  
03.P31 :SPK Pin 3 connect Net -- SPK\_R+  
04.P31 :SPK Pin 4 connect Net -- SPK\_R-  
05.P15 :SATAPW1 mirror Vertically  
06.P32 :C802 Change to DIP for RSD Cap. ---- Follow EMI Team Suggestion

TPV (Top View Dimensions in mm)	QIM MODEL	8200	Size	C
TPV MODEL	8200		Size	A
TPV NAME	71502550-MDA-QIM-0000		Rev	<88>
Sheet	47	of	47	