

#### RESISTOR Rating Symbol name Value Tolerance Size 0402=> 1/16W, 25V 0603 => 1/16W, 75V 0805 => 1/10W, 100V 2=>0402, 3=>0603, 5=>0805, 6=>1206, 0=>1210 (J: 5%, F: 1%, D: 0.5%, B: 0.1 %) 10KR3 10K Ohm If no letter, it means J: 5% 1/16W, 75V 0603 33D3R5 33.3 Ohm 1/10W, 100V 0805 If no letter, it means J: 5% 1KR3F 1K Ohm F: 1% 1/16W, 75V 0603

The naming rule is value + R + size + tolerance For the value, it can be read by the number before R. (R means resistor) For the tolerance, it can be read from the last letter. For the rating, we don't show on the symbol name. For the size, R2=>0402, R3=>0603, R5=>0805,....

#### CAPACITOR

Symbol name	Value	Tolerance (M: +/-20, K: +/-10, Z: +80/-20)	Rating	Size 2=>0402, 3=>0603, 5=>0805, 6=>1206, 0=>1210
SCD1U10V2MX-1	0.1uF	M/X5R	10V	0402
SC10U6D3V5MX	10uF	M/X5R	6.3V	0805
SC2D2U16V5ZY	2.2uF	Z/Y5V	16V	0805

The naming rule is Capacitor type + value + rating + size + tolerance + material SCD1U10V2MX-1

SC=> SMT Ceremic, TC=> POS cap or SP cap D1U => 0.1uF

10V => the voltage rating is 10V

2=> 0402, 3=>0603, 5=>0805

M=>tolerance M, K, Z X=> X7R/X5R, Y=> Y5V

-1 => symbol version, nonsense to EE characteristic

### PLANAR\_ID[3..0]

ICH8-M GPIOn	39	38	37	36		
PLANAR_IDn	3	2	1	0	Planar ID Version	Planar PCB Version
	0	0	0	0	KSnote-3 Pre-DV	SA
	0	0	0	1	DV1	SB
	0	0	1	0	FVT	SC
	0	0	1	1	DV2	SD
	0	1	0	0	DV2-R, SIT	SE, SF
	0	1	0	1	SIT (Dali-2)	SG
	0	1	1	0	SIT-R	SH
	0	1	1	1	SVT	-1

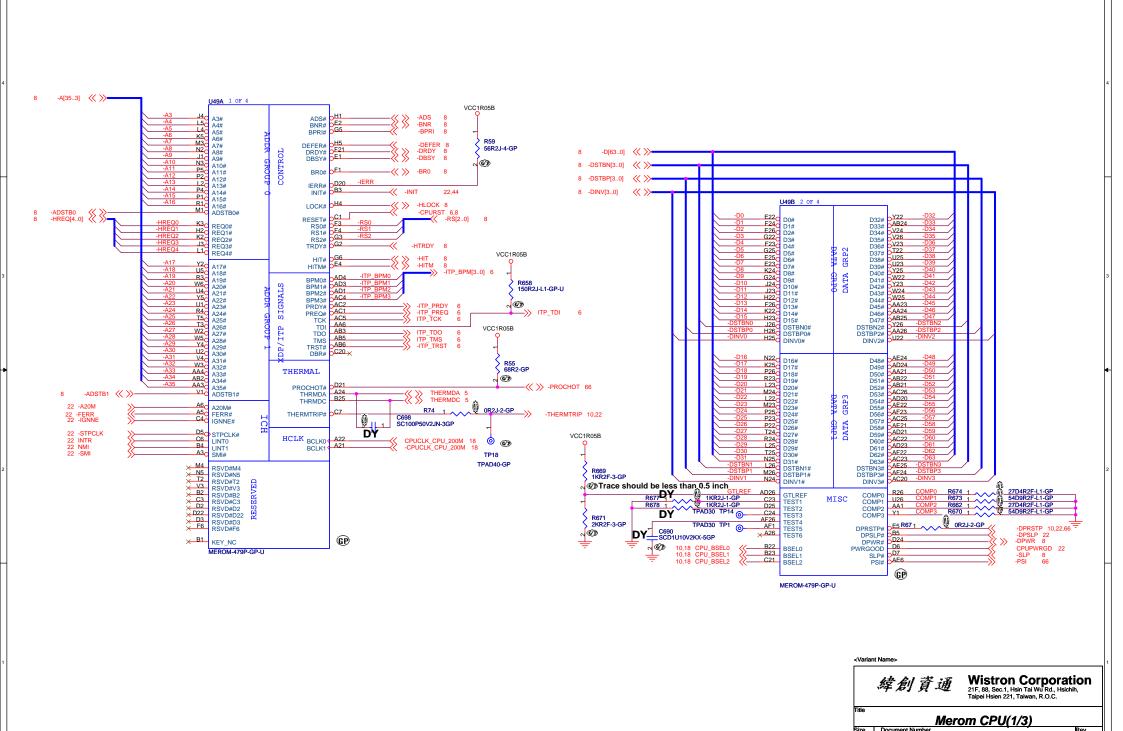
## **EC HISTORY**

Stage	Date	EC No.	Page	Note		
DV	7/19	EC019	69	Add R856 connect U22 pin.5 and MPWRG		
DV	7/19	EC019	74	Add R857(DY)		
DV1	7/21	EC001	56	Add 2nd FAN Control logic in P.56		
DV1	7/21	EC001	18	Delete C590,C593,C589,C579,R833,R834 make DREFCLK_96M connect to U67 Pin.5 -DREFCLK_96M connect to U67 Pin.6 Reset R514,R515,R573 to 10hm		
DV1	7/21	EC001	11	Add C590,C905,C906,C593,C579,C589 and connect to U53F Pin.AC16		
DV1	7/21	EC001	12	Reset C139,C145,C701 to 6.3V 10%		
DV1	7/21	EC001	10	Reset U27 to Dummy, R250 to ASM		
DV1	7/21	EC001	48	Reset R212 to DY Add -90W_AC connect to U26A Pin.11		
DV1	7/21	EC001	49	Reset R291 to DY Add GSENSE_TST connected to U26B Pin.F3 Add FAN2_ON, FAN2_FRQ		
DV1	7/21	EC001	24	Reset R337 to DY,R341 to ASM		
DV1	7/21	EC001	19	Reset R649,U12,R49 to DY, R648 to ASM		
DV1	7/21	EC001	46	Delete F6,Q25,R133,C224 and -2NDFAN_ON		
DV1	DV1	EC001	68	Reset R427,R451,R442,R439,R420 to 22k ohr Change the power from VCC5M to VCC3M		

#### **PCI TABLE**

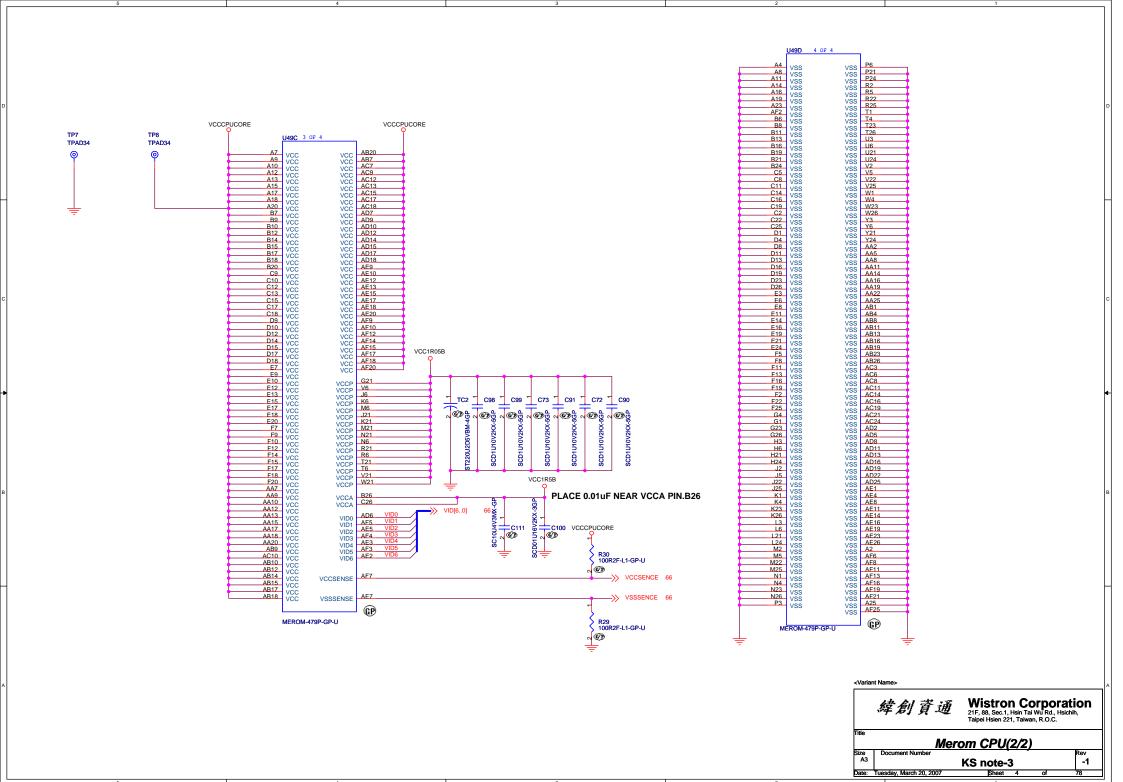
DEVICE	IDSEL	IRQ (Default)	REQ# / GNT#
MINIPCI SLOT	AD18	F, G	REQ# 3/ GNT#3
CARDBUS R5C811	AD16	SERIRQ	REQ#0 / GNT#0
USB UHCI	AD29	A, C, D	
USB 2.0 EHCI	AD29	Н	
DMI-to-PCI/ AC97 Modem/ AC97 Audio	AD30	B B	
LPC Bridge IDE SATA SMBus	AD31	C C B	
PCI Express	AD28	A, B, C, D	

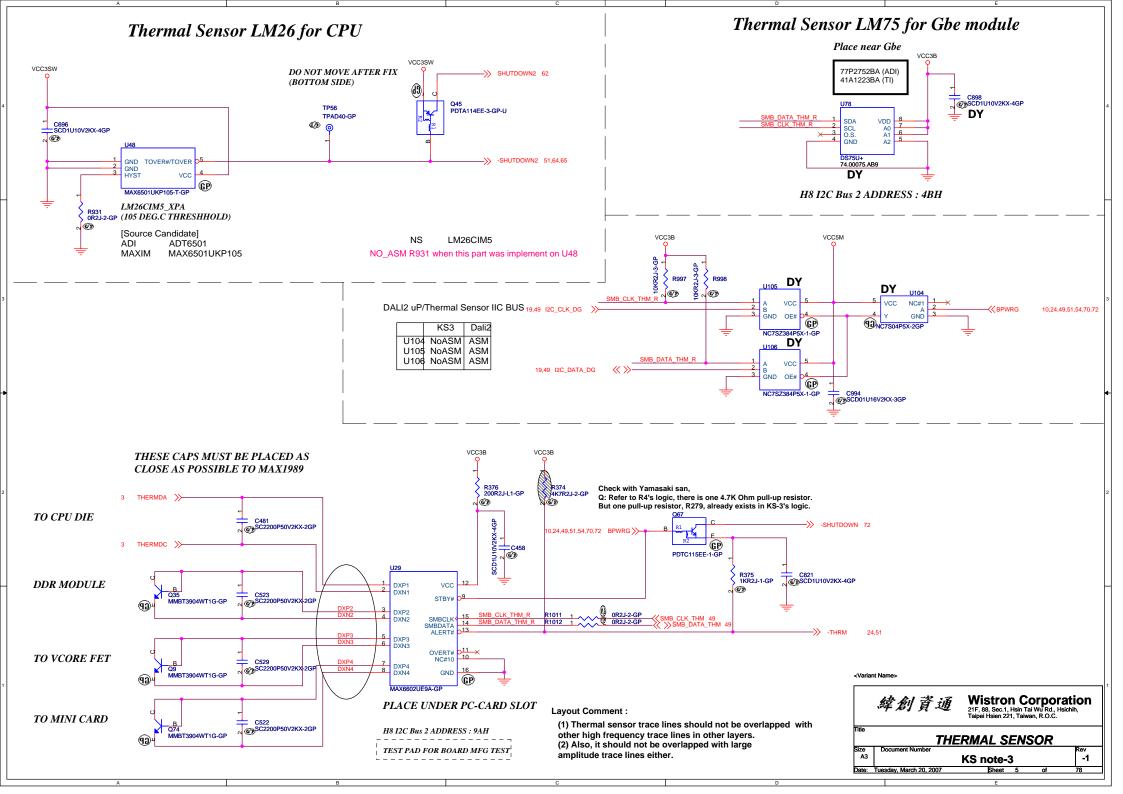
<Variant Name> Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C. Reference Document Number -1 KS Note-3 Date: Tuesday, March 20, 2007 Sheet 2



-1

KS note-3





VCC1R05B DY R70 51R2F-2-GP R62 39D2R2F-L-GP 1 TDI 2 TMS 3 TRST# 51R2F-2-GP **©**® 3 ITP\_TDI 4 NC 5 TCK 6 NC 7 TDO 8 BCLK# ITP\_TCK 9 BCLK 22D6R2F-L1-GP 10 GND 3 ITP\_TDO 18 -CPUCLK\_ITP\_200M 18 CPUCLK\_ITP\_200M 9 10 11 12 13 14 15 16 17 ĎΫ 11 FBO 12 RESET# 13 BPM5# R77 1 **DY** 14 GND 15 BPM4# 16 GND 17 BPM3# 18 GND 19 BPM2# 20 GND 3 -ITP\_BPM[3..0] >> 21 BPM1# 22 GND 23 BPM0# VCC1R05B 24 DBA# 25 DBR# 26 VTAP 27 VTT 24 -ITP\_DBR <<-25 26 27 28 30 28 VTT DY R64 27D4R2F-L1-GP R63 680R2J-3-GP C118 C118 SCD1U10V2KX-4GP MLX-CON28-U **©** DY

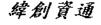
(\*1) TCK SIGNAL IS BRANCHED AT CPU's PIN

(\*2) CPURST# SIGNAL IS BRANCHED AT GMCH'S PIN

	Ref Des	For ITP 700Flex	For ITP-XDP
I	J7	NO_ASM>ASM	NO_ASM>ASM
ı	C118	NO_ASM>ASM	NO_ASM>ASM
ı	R658	ASM (No Change)	ASM> 51 5% ASM
ı	R69	NO_ASM>ASM	NO_ASM>ASM
ı	R77	NO_ASM>ASM	NO_ASM>1K 5% ASM
ı	R63	ASM (No Change)	ASM (No Change)
ı	R78	ASM (No Change)	ASM>NO_ASM
ı	R70	ASM (No Change)	ASM (No Change)
ı	R64	ASM (No Change)	ASM>51 5% ASM
L	R62	ASM (No Change)	ASM>51 5% ASM

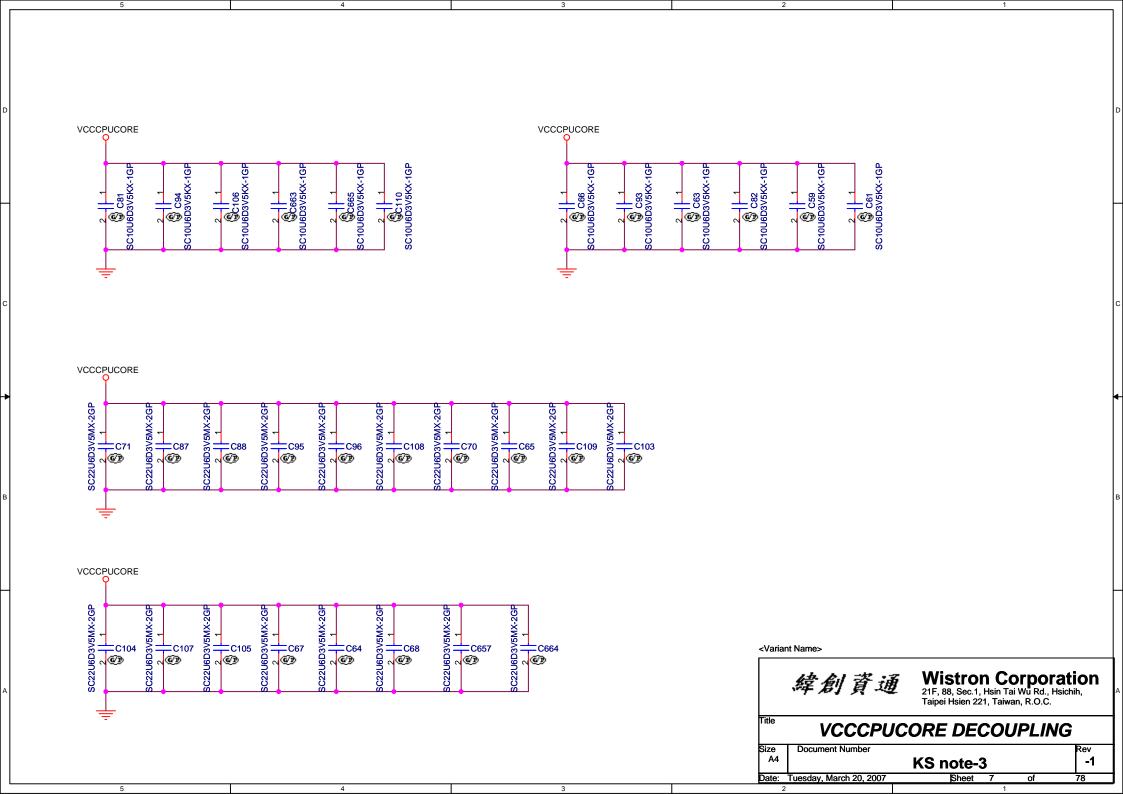
Rxxx(\*) is the pull-up resistor on ITP\_TDI

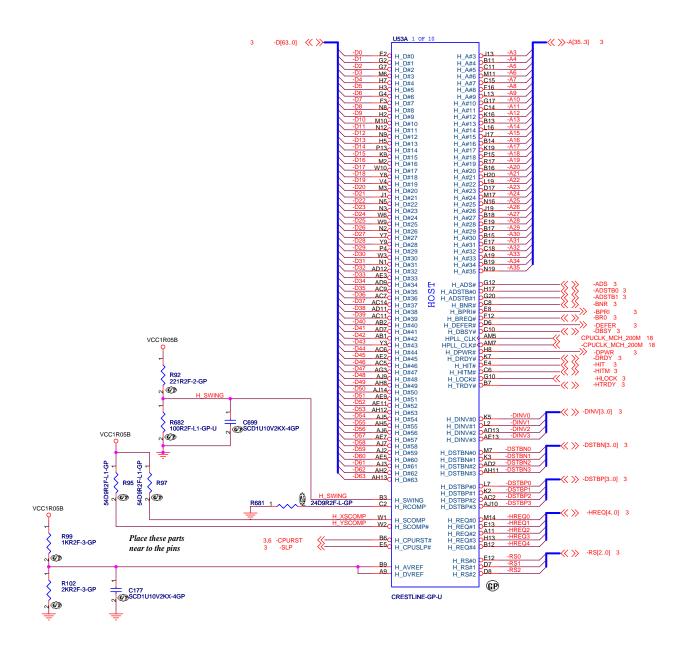
<Variant Name>



# Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,

		Taipei Hsien 221, Taiwan, R.O.C.				
Title		CONN				
Size	Document Number				Rev	
Cust	pm 	KS note-	3		-1	
Date:	Tuesday, March 20, 2007	Sheet	6	of	78	

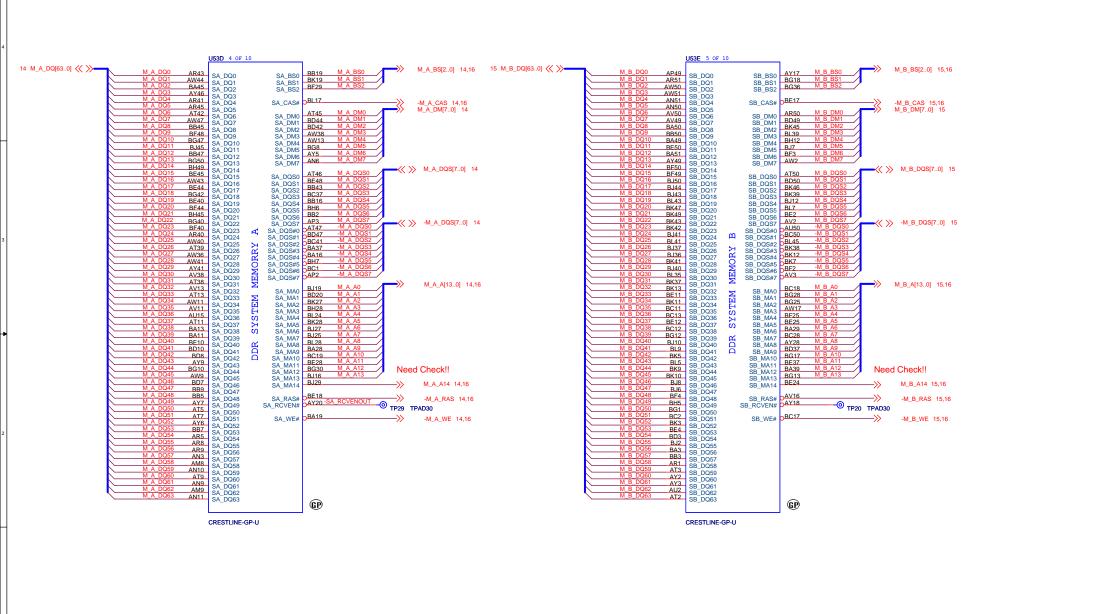




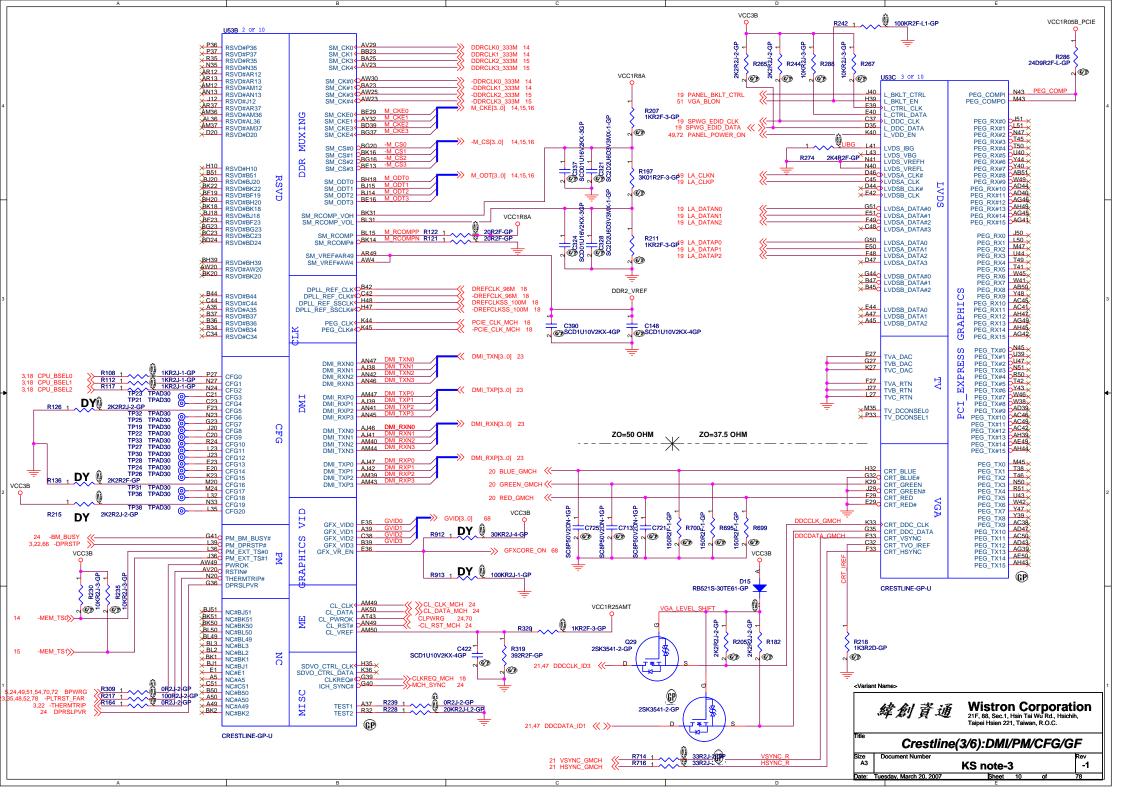
Route H\_XRCOMP & H\_YRCOMP 10 mil wide / 20 mil spacing

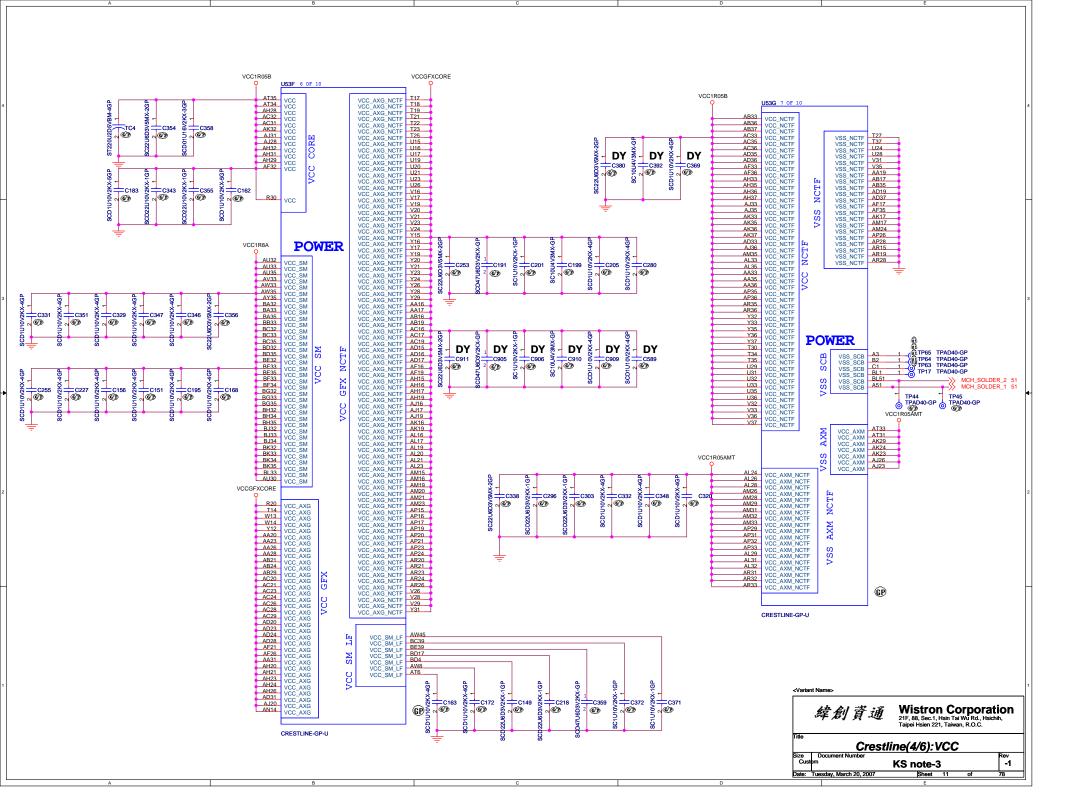
Route H\_XSWING & H\_YSWING 10 mil wide / 20 mil spacing

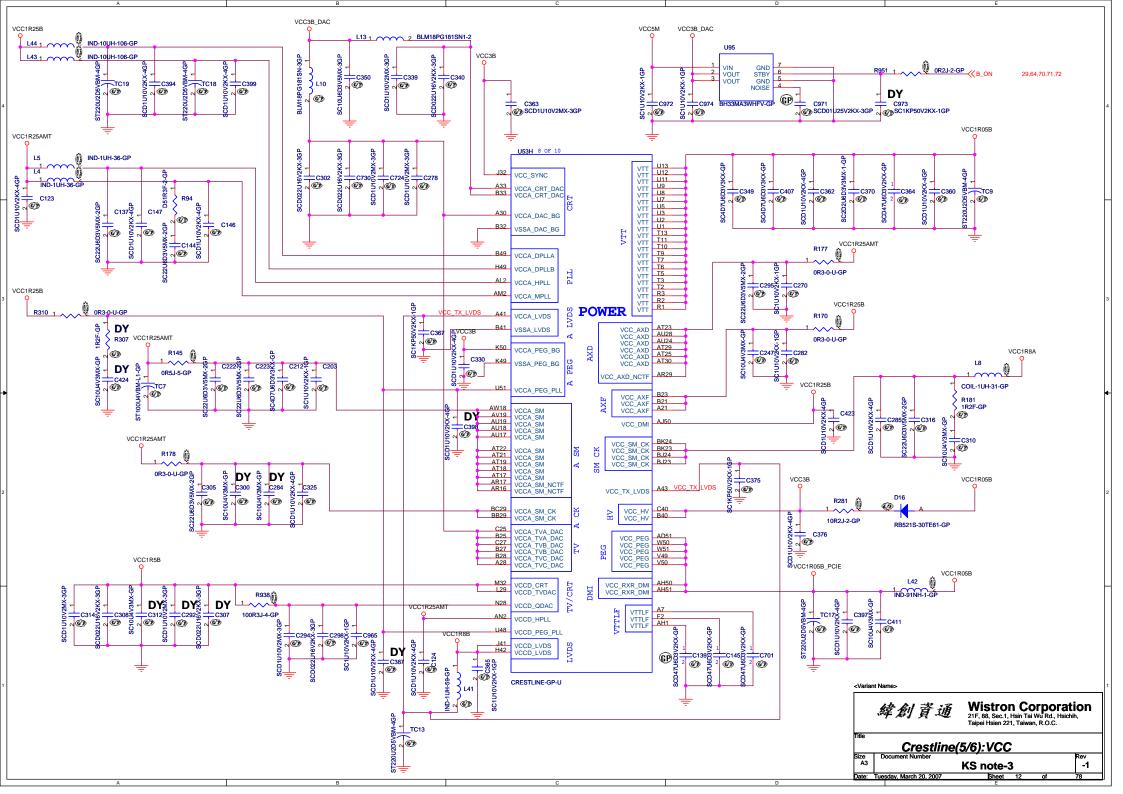
<Variant Name>

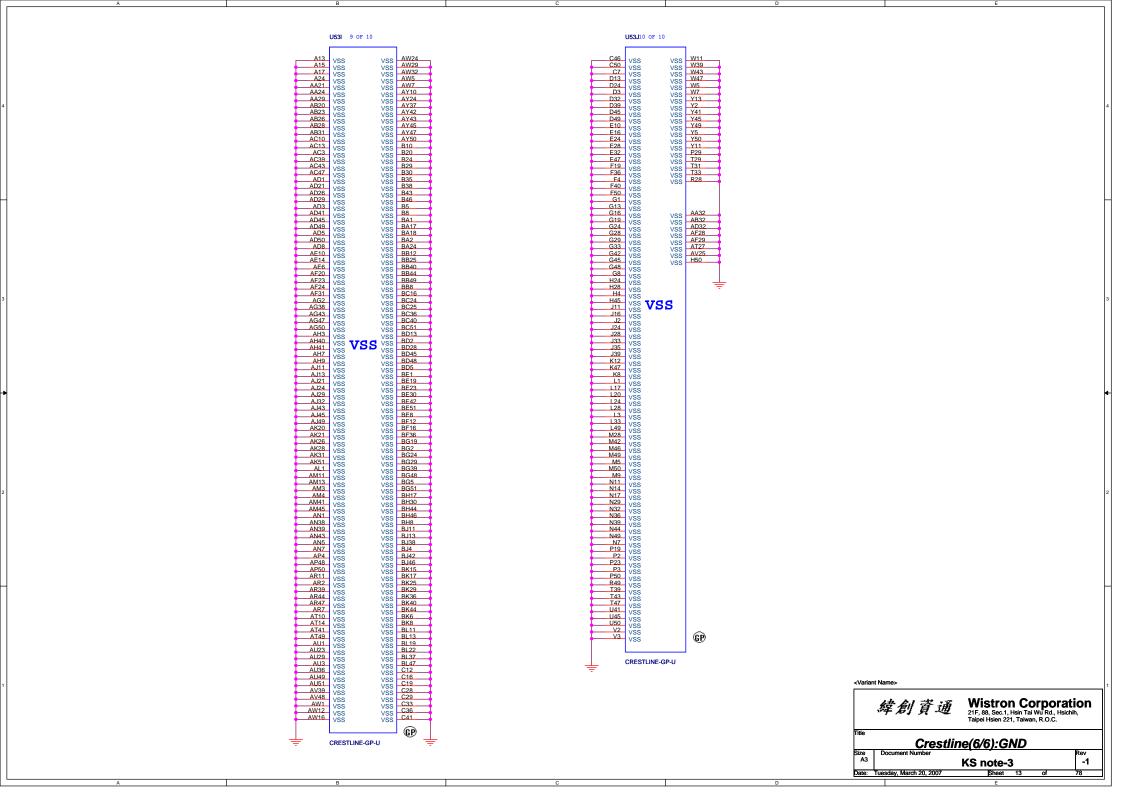


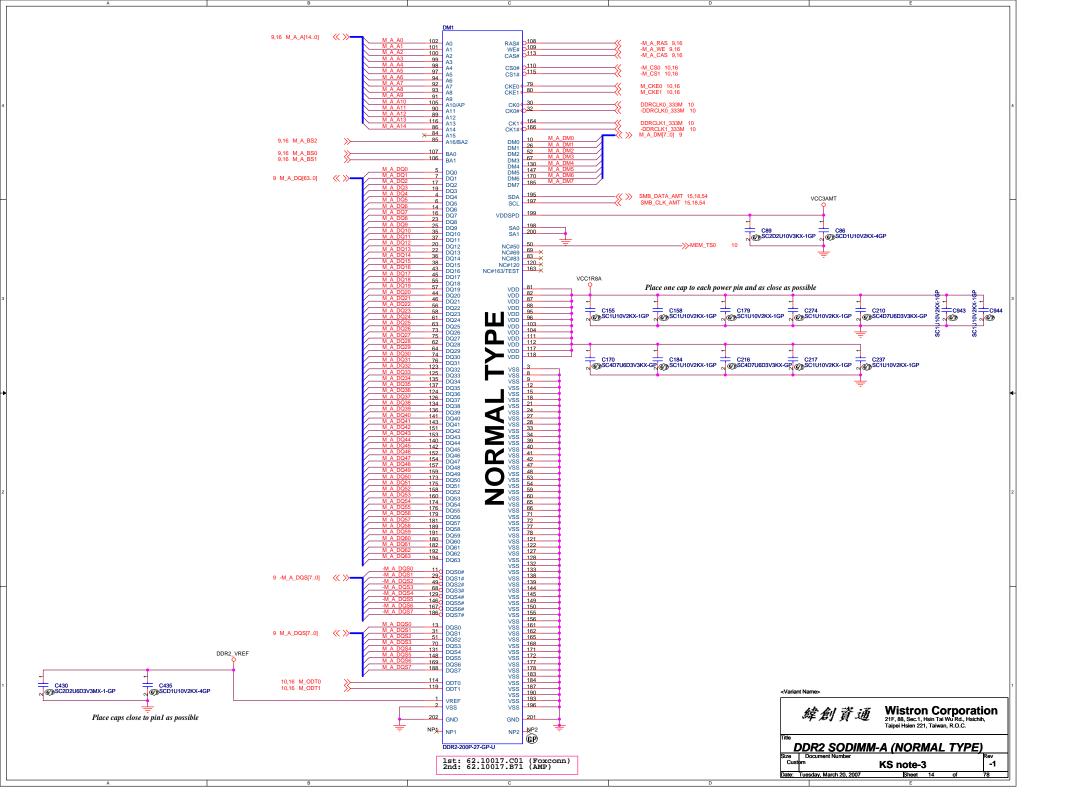


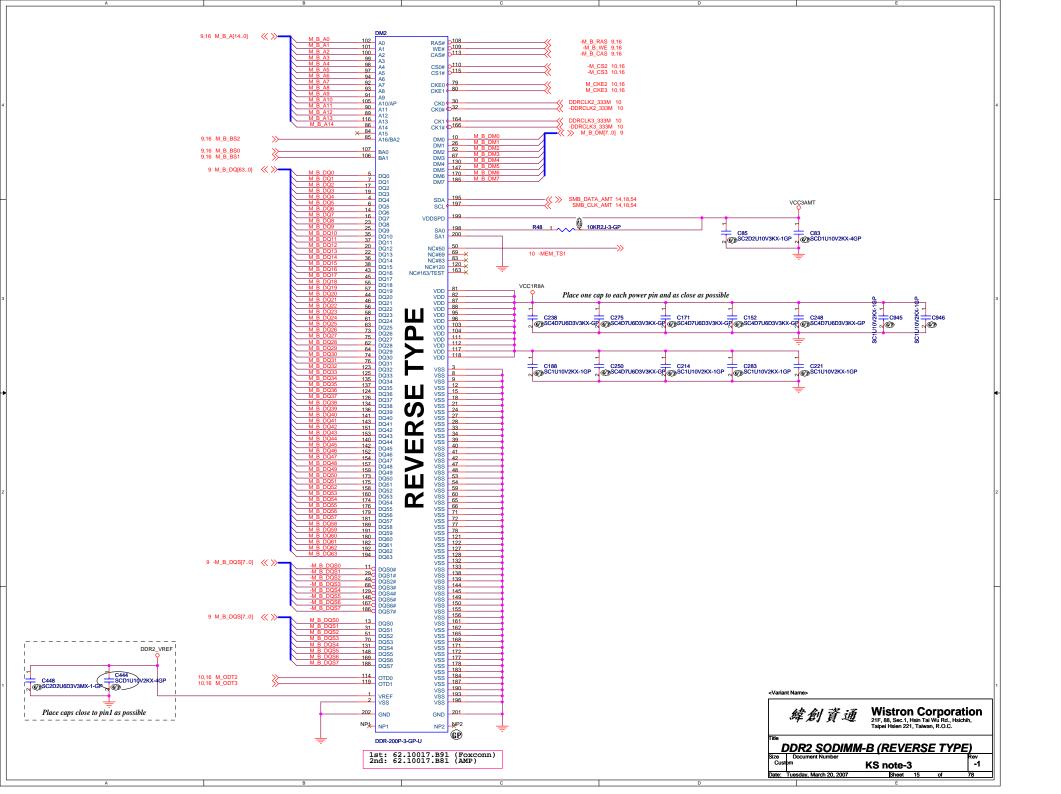




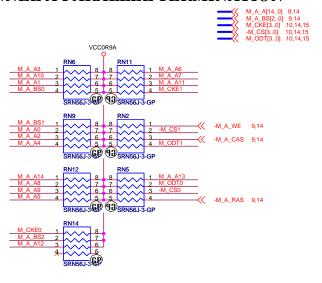




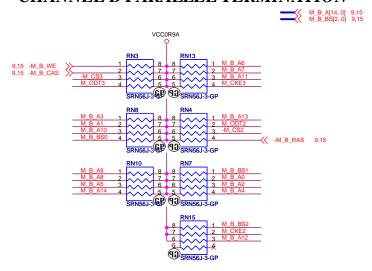


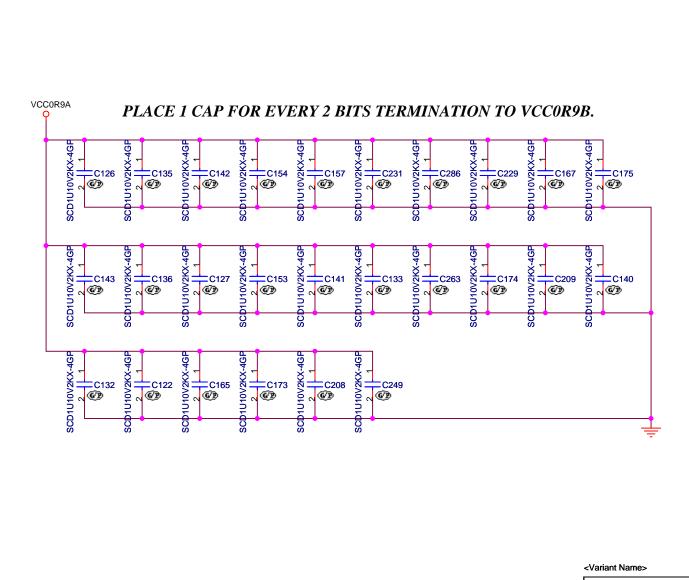


## CHANNEL A PARALLEL TERMINATION



## CHANNEL B PARALLEL TERMINATION







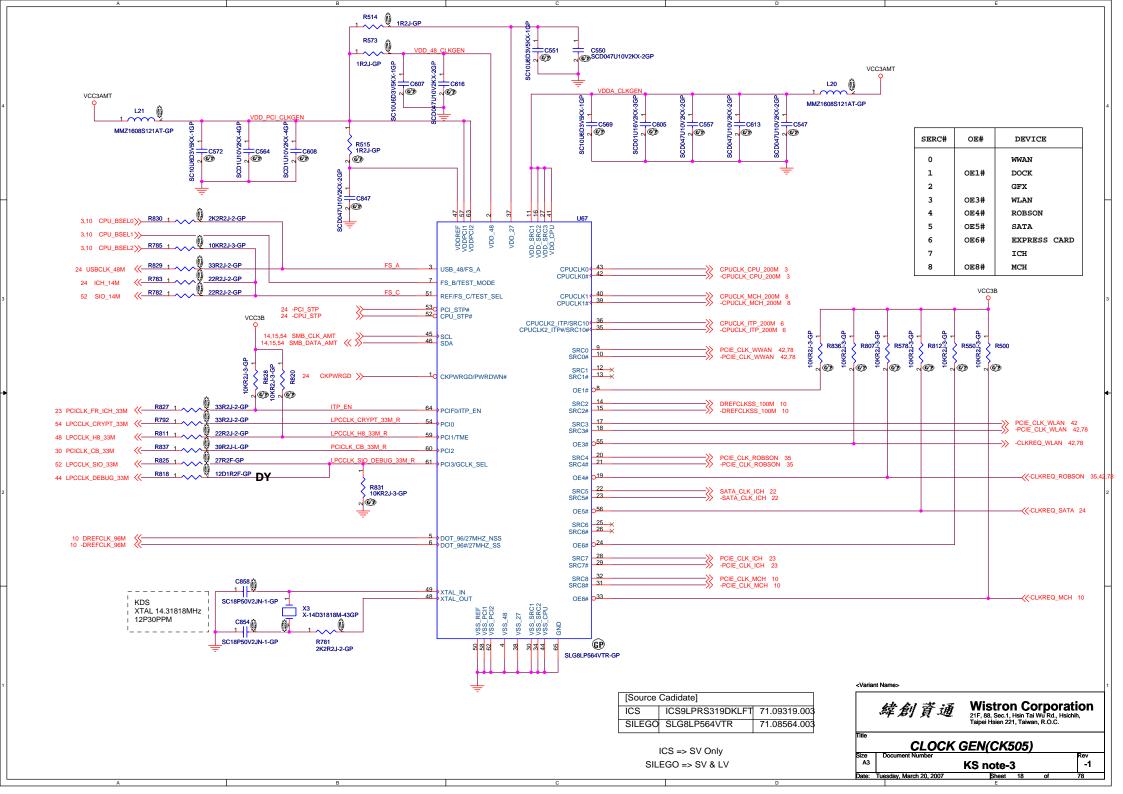
Document Number Size A4 KS note-3

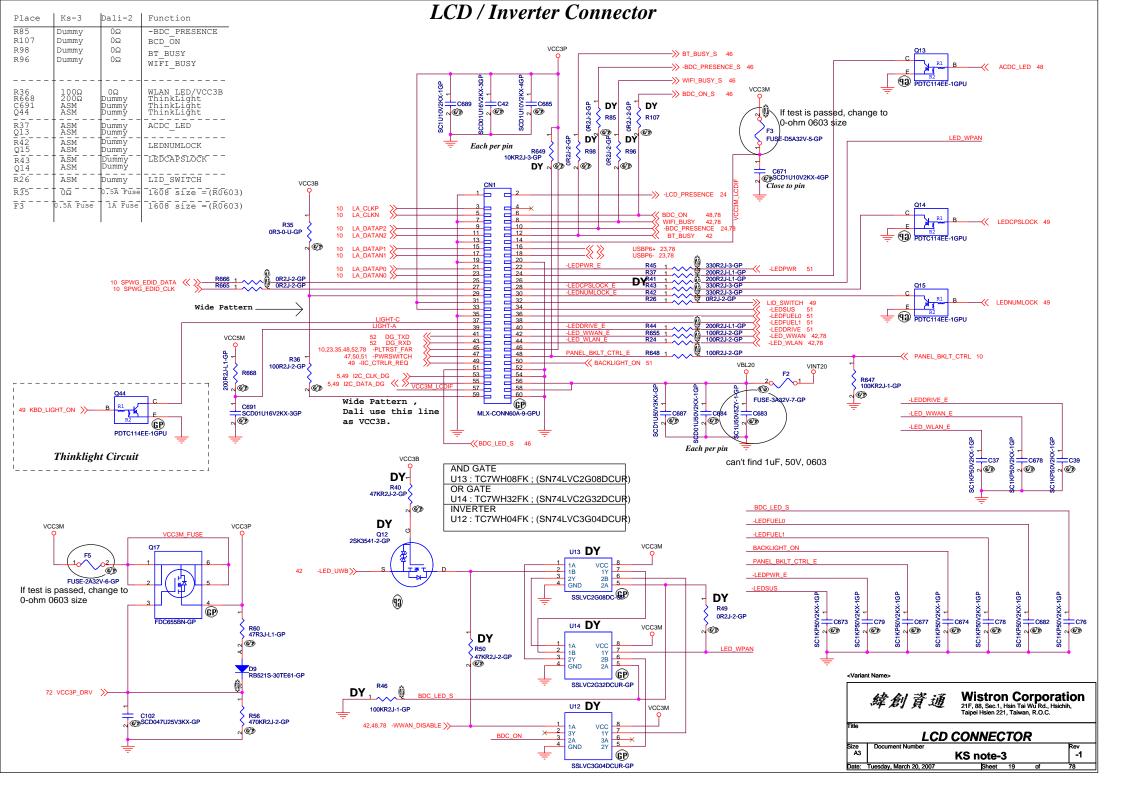
Date: Tuesday, March 20, 2007

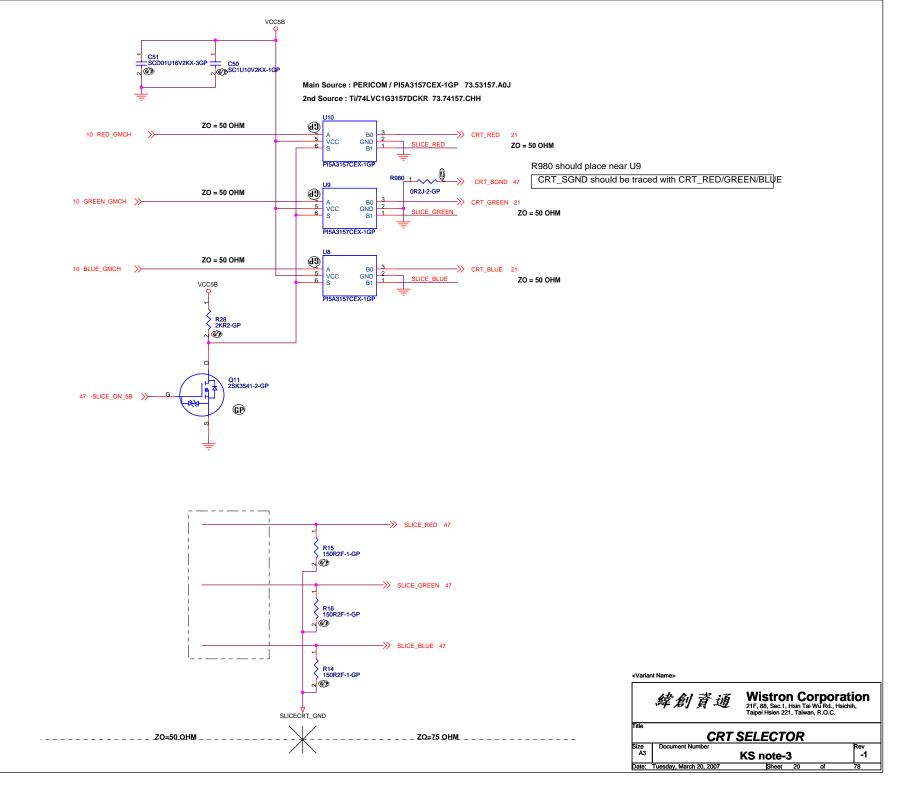
Rev

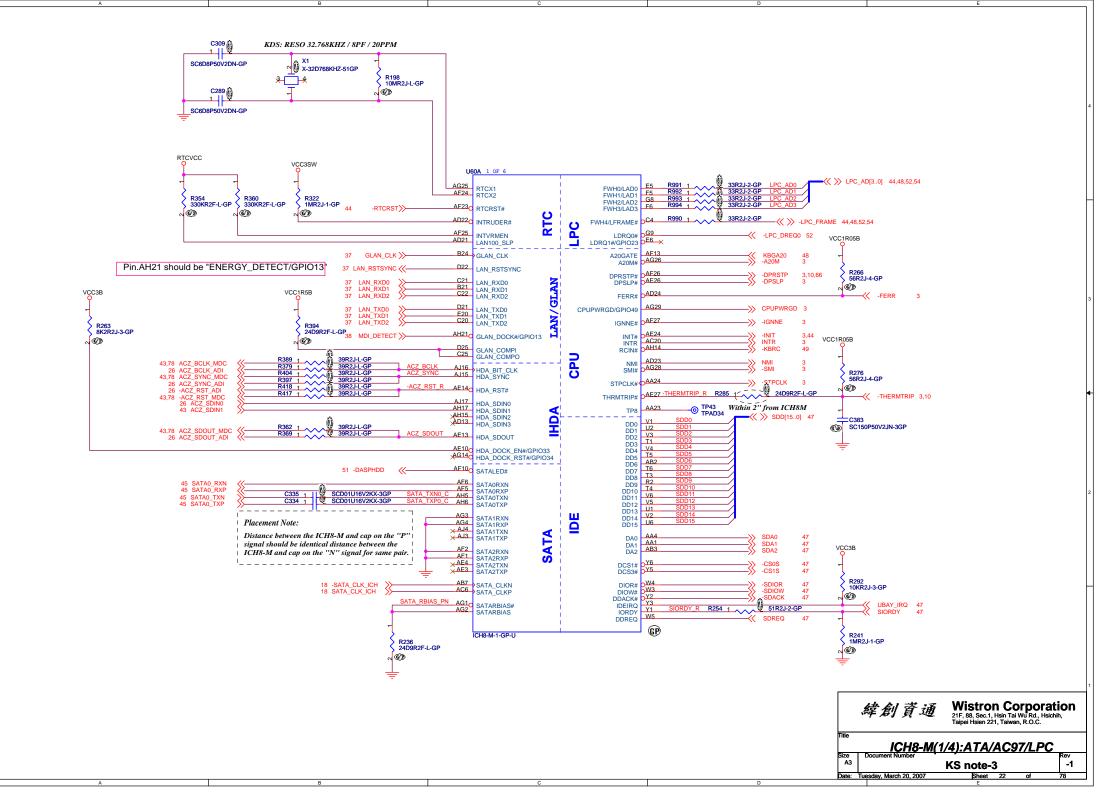
-1

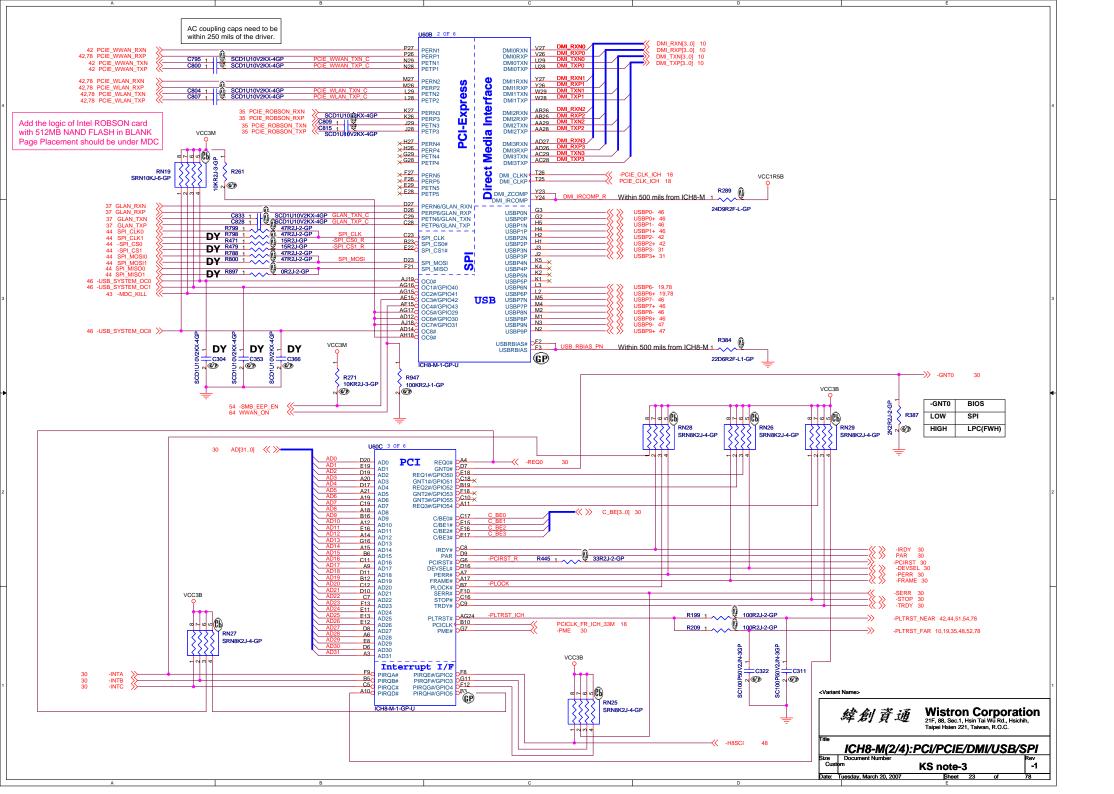
Sheet 17

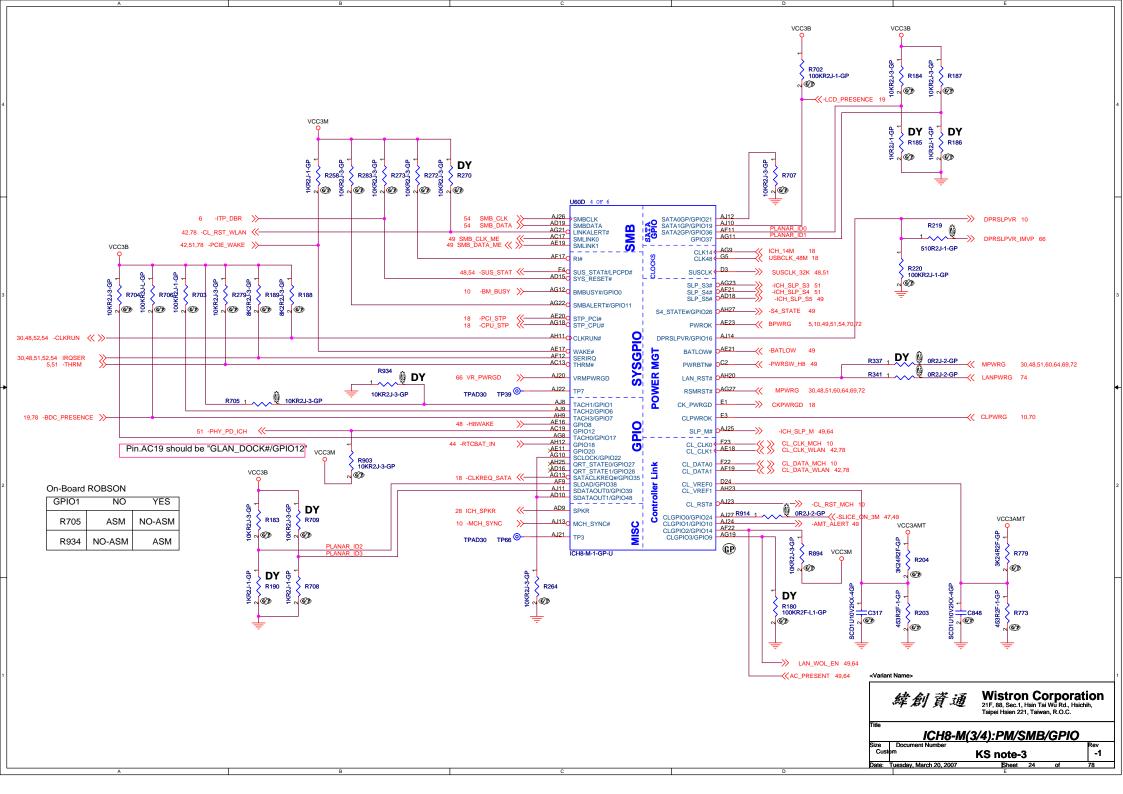


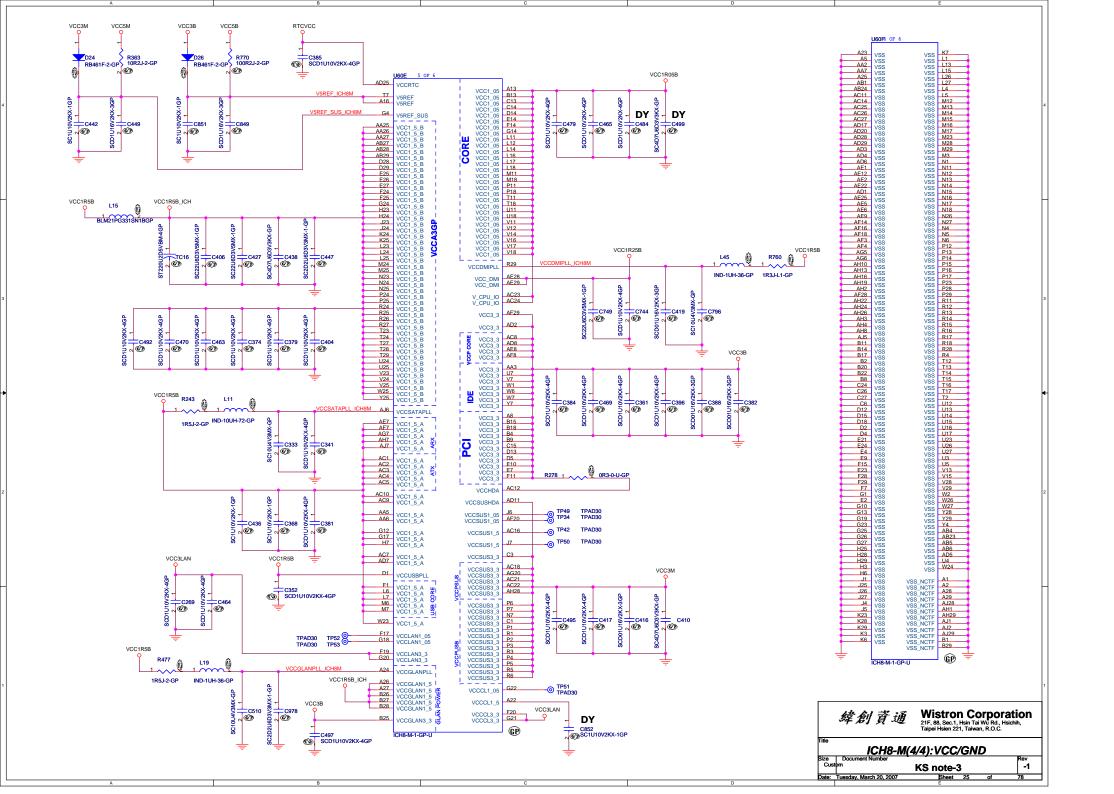


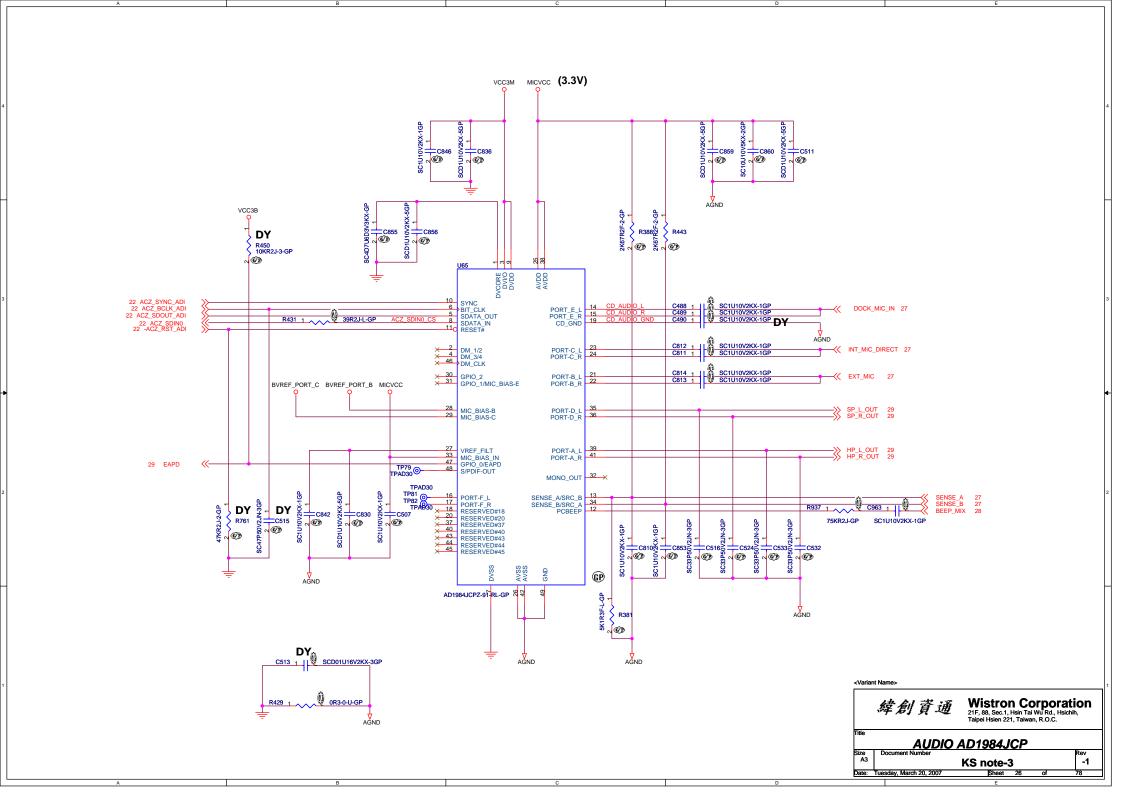


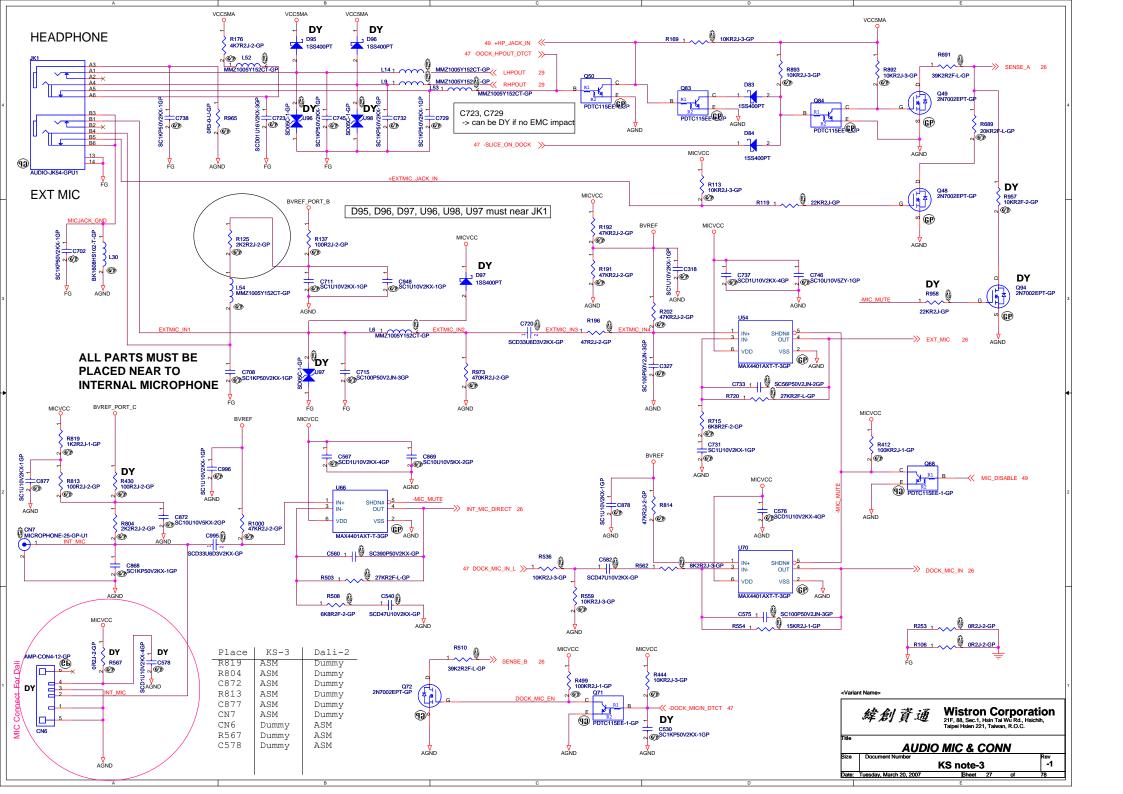


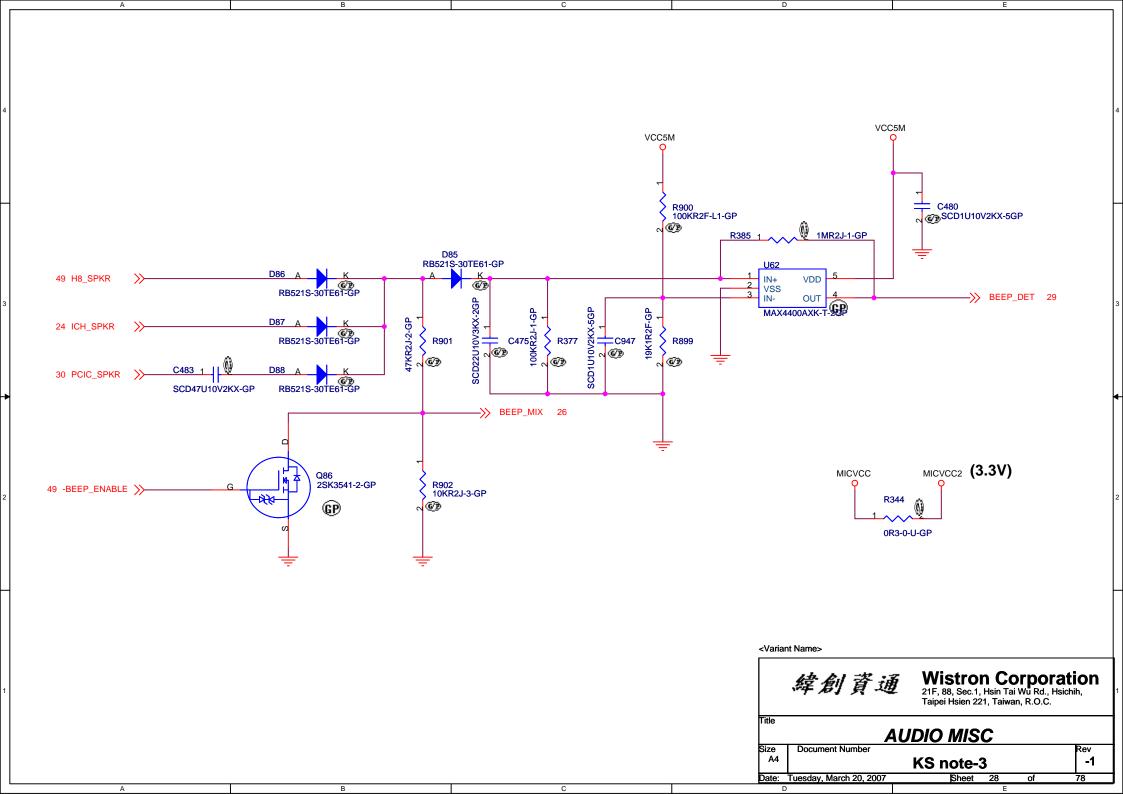


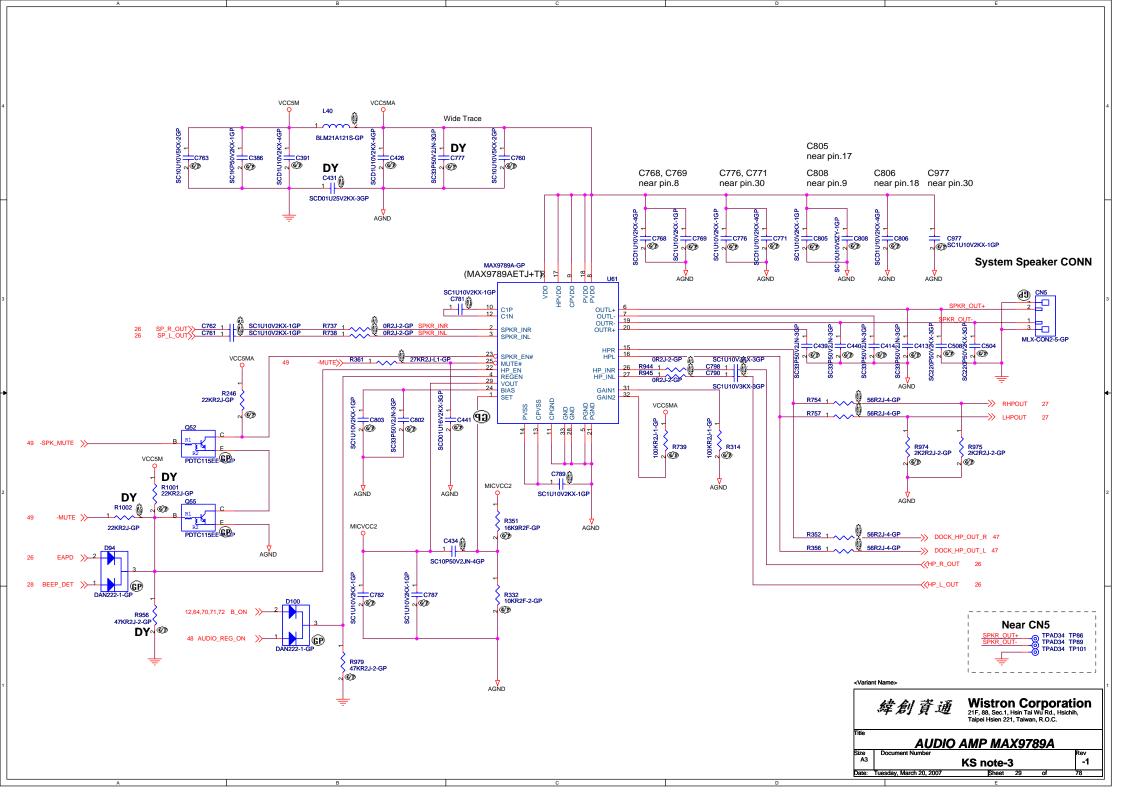


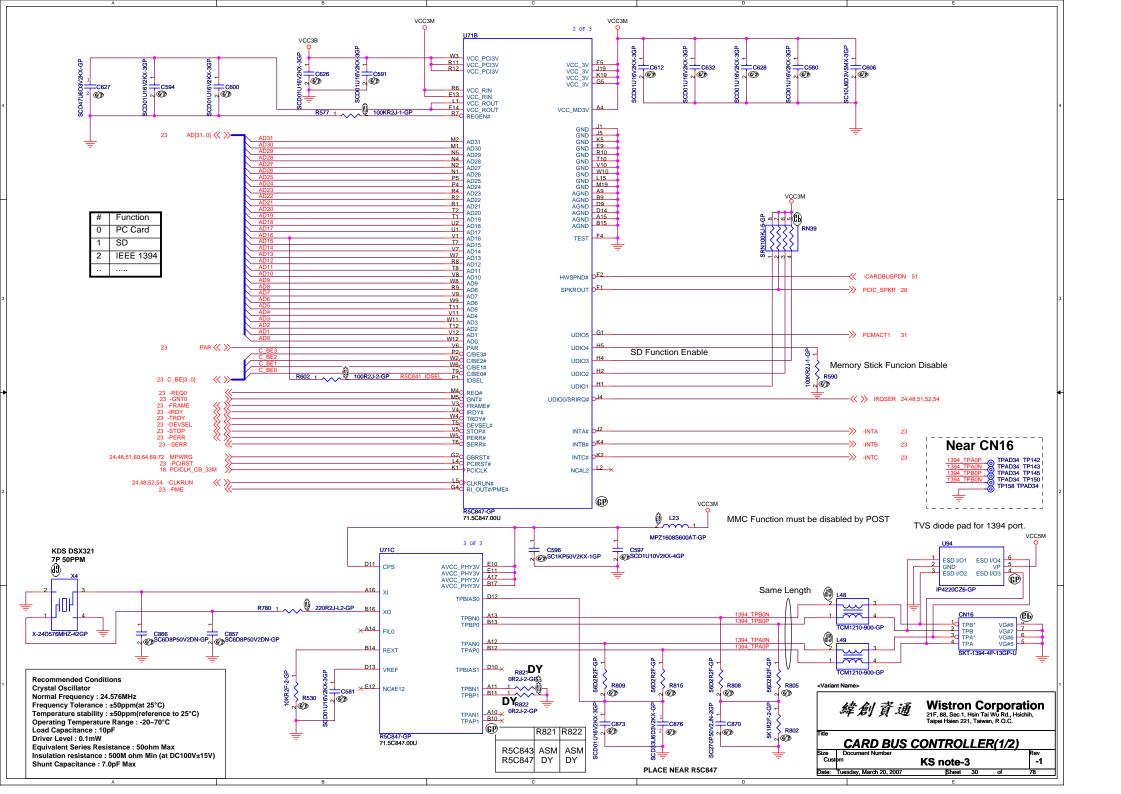


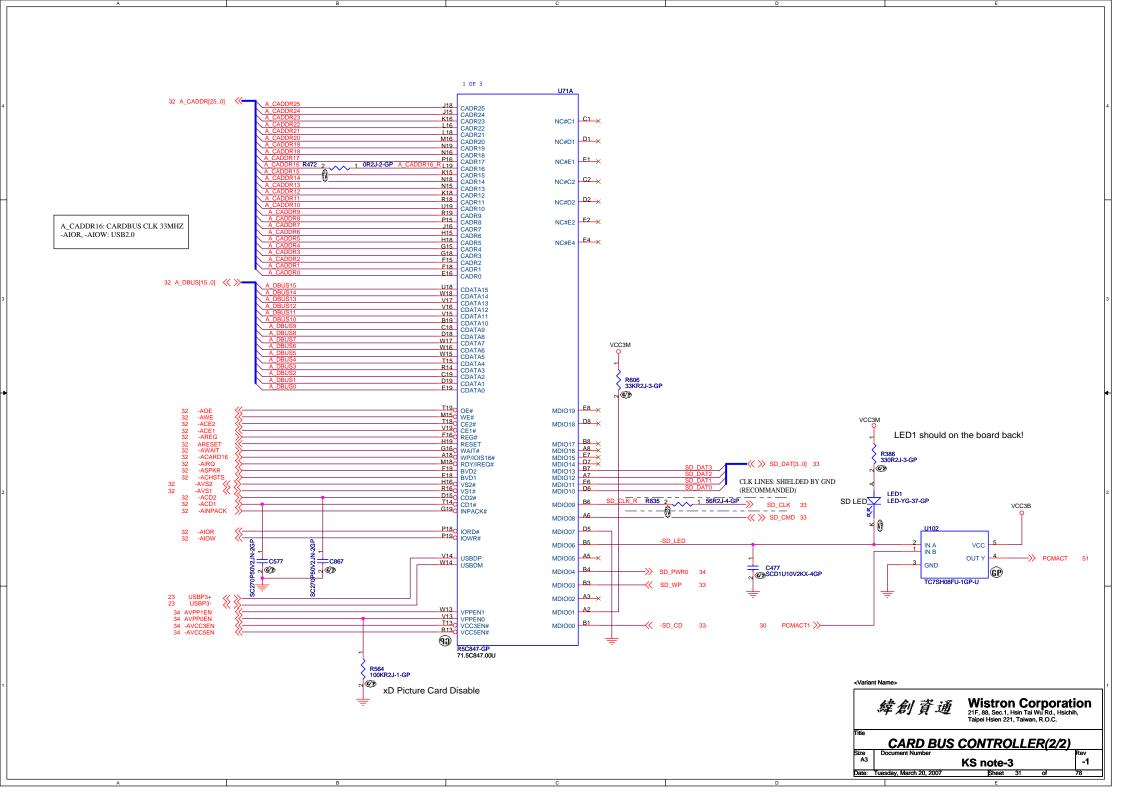


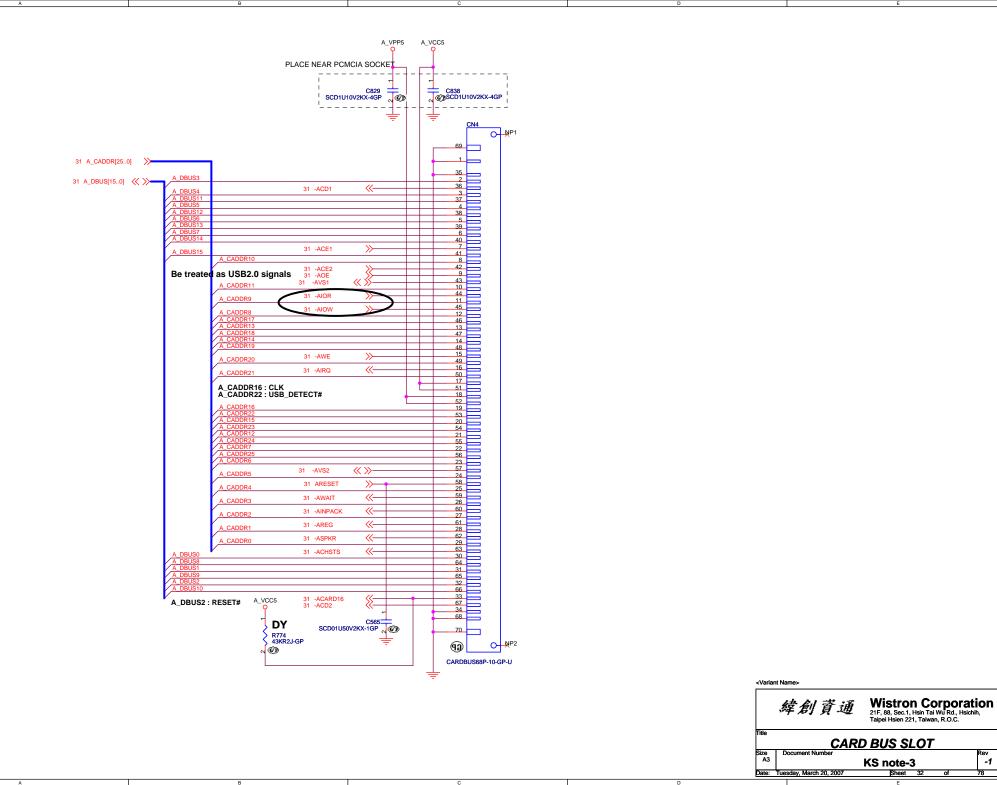




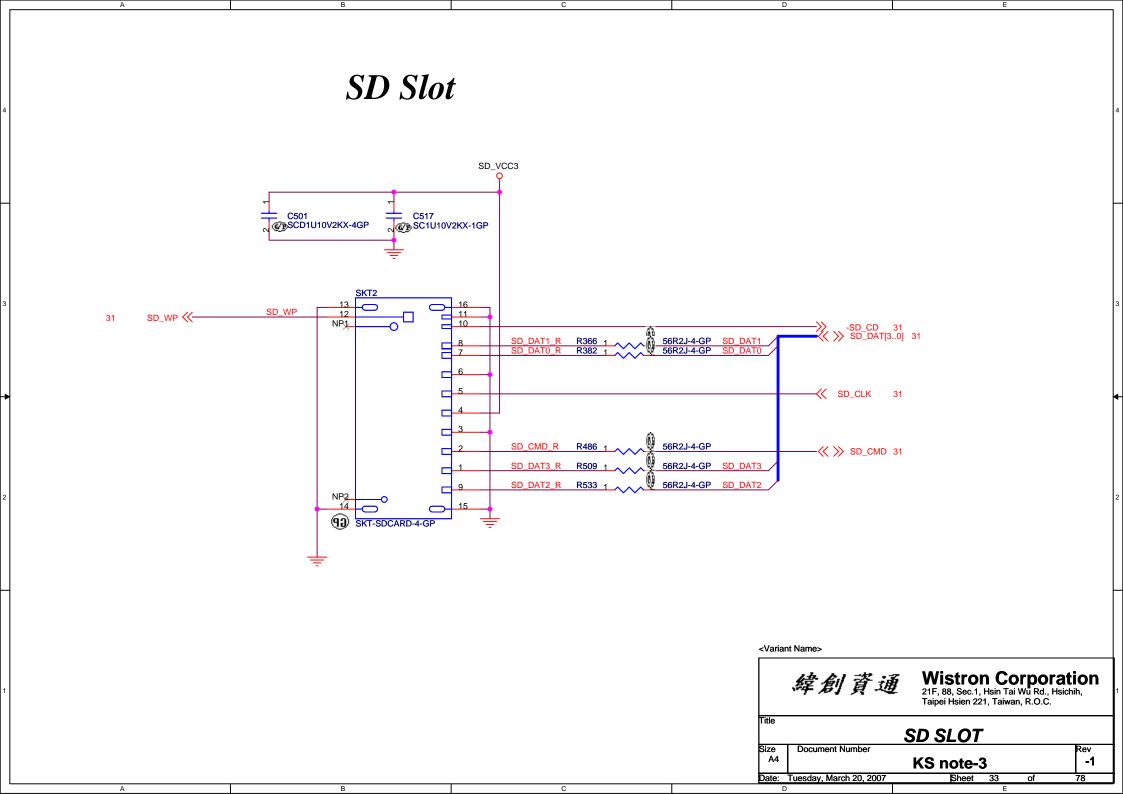


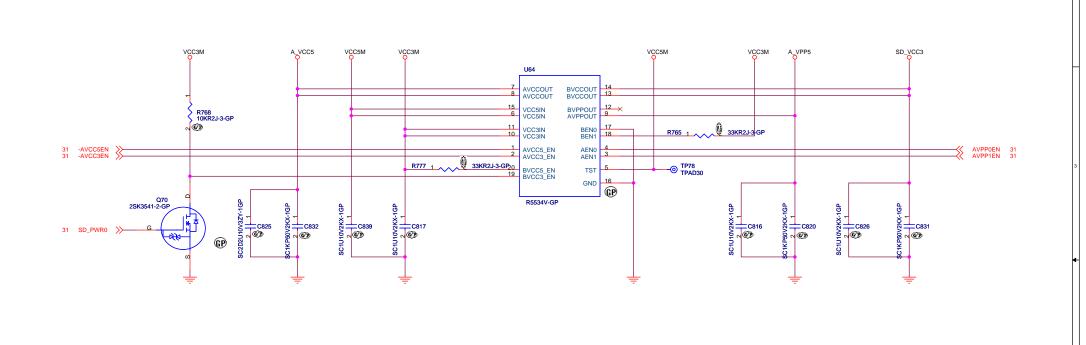




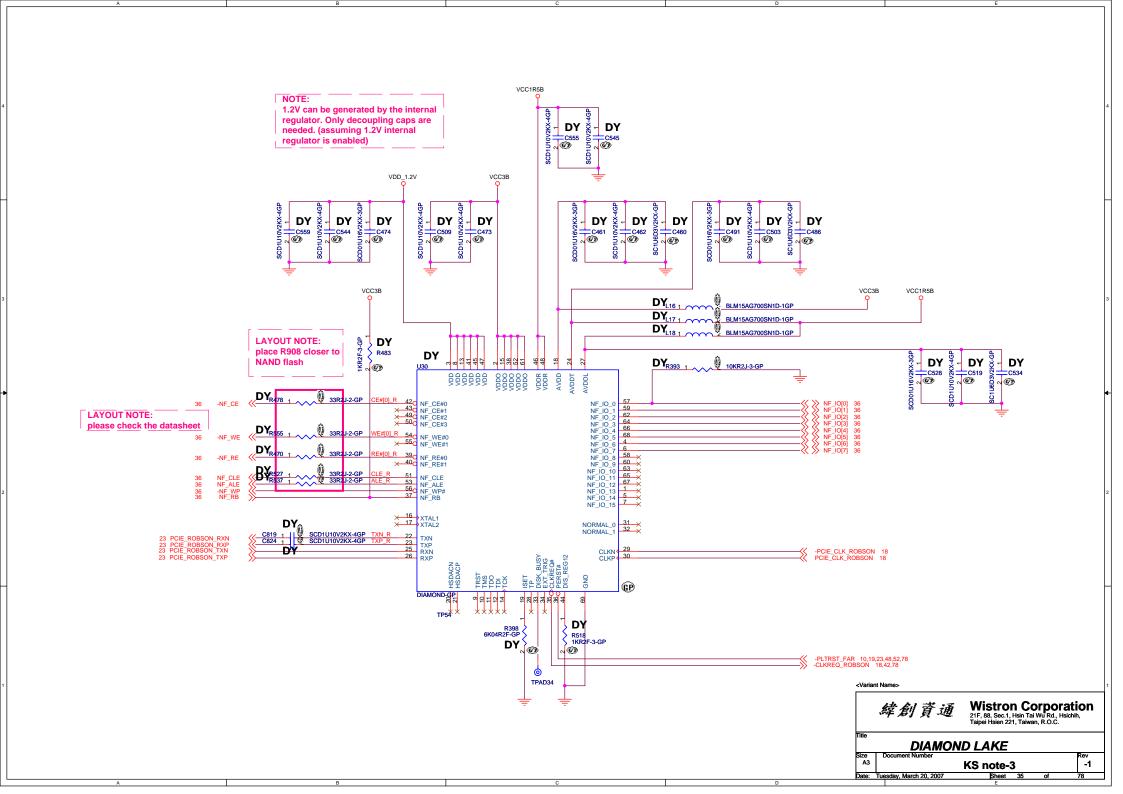


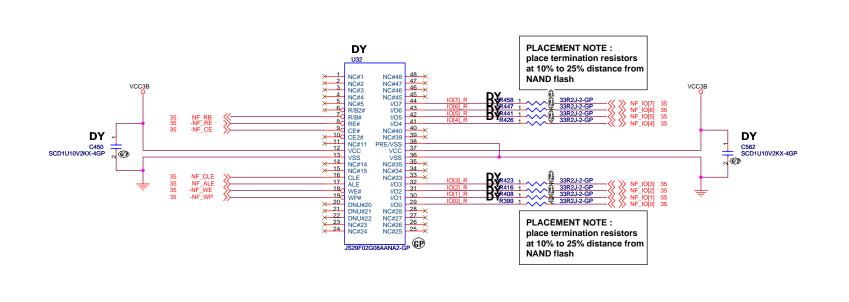
-1



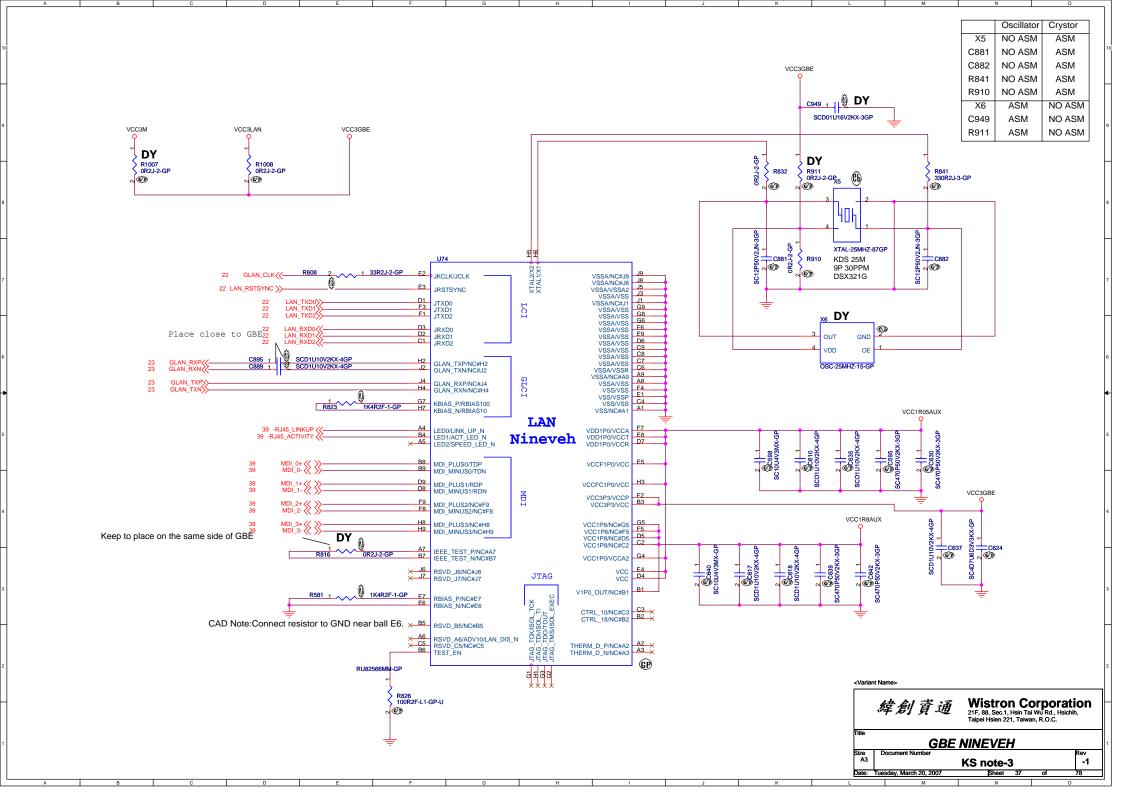


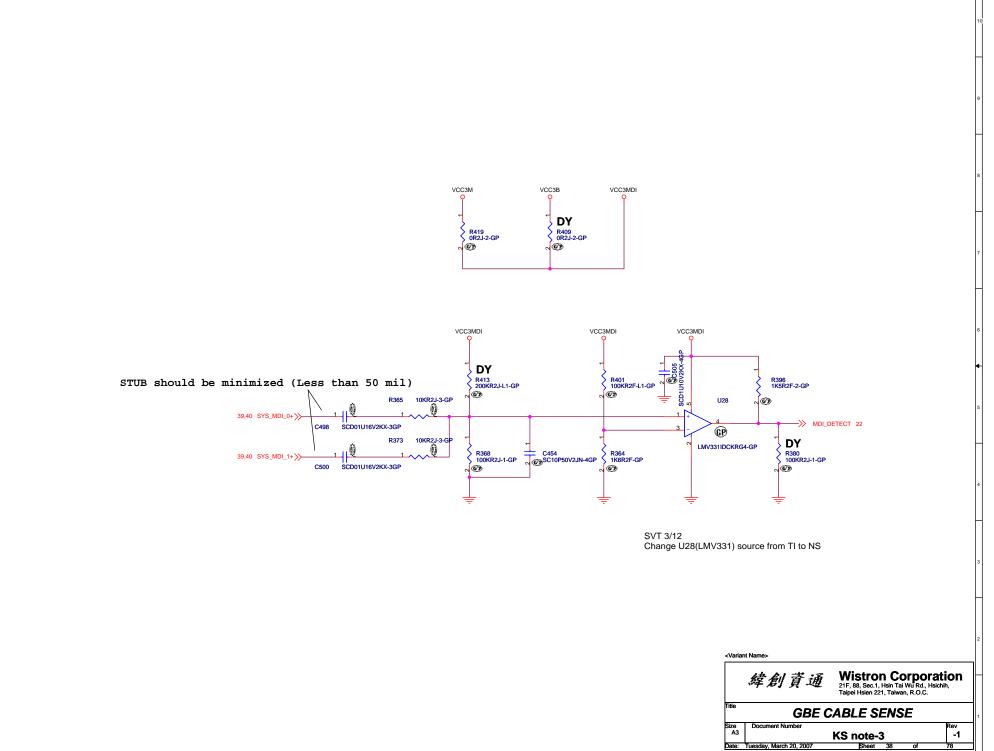


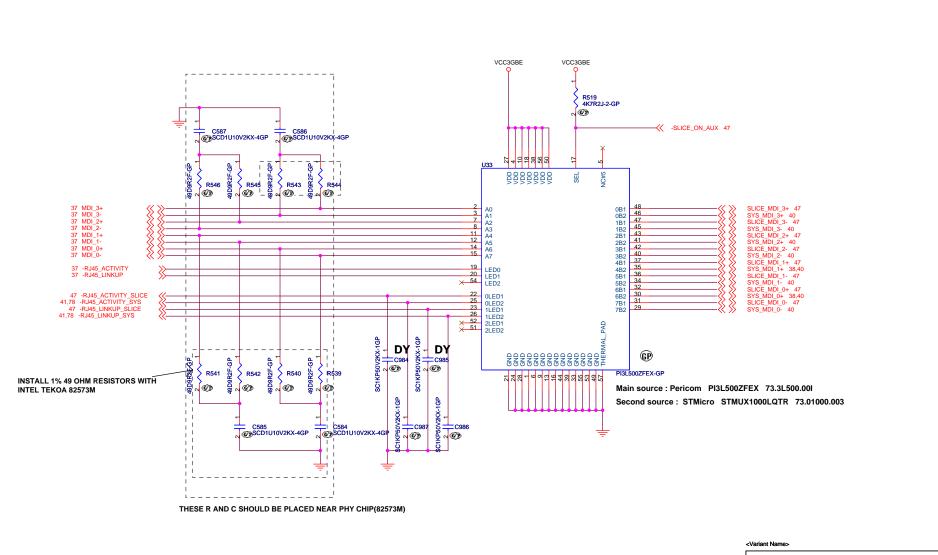




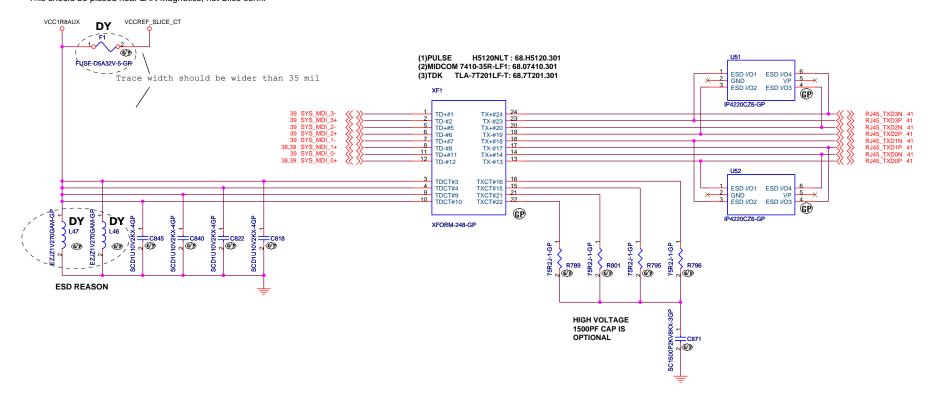




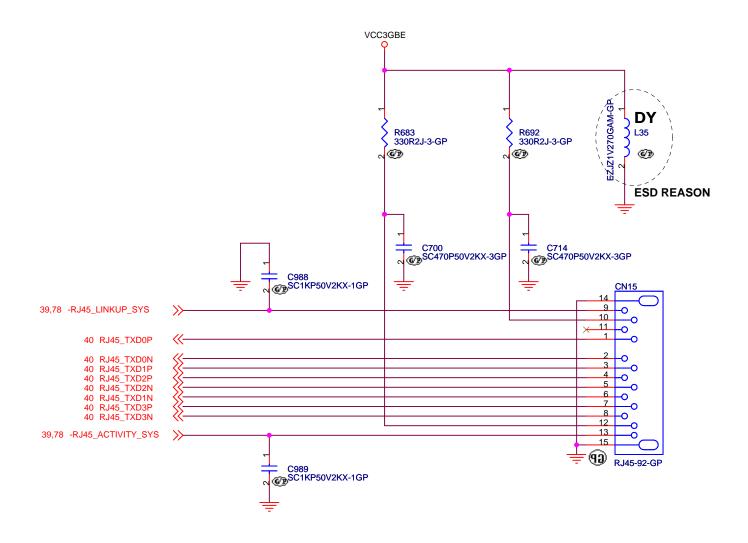




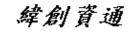
This should be placed near LAN Magnetics, not Slice conn.







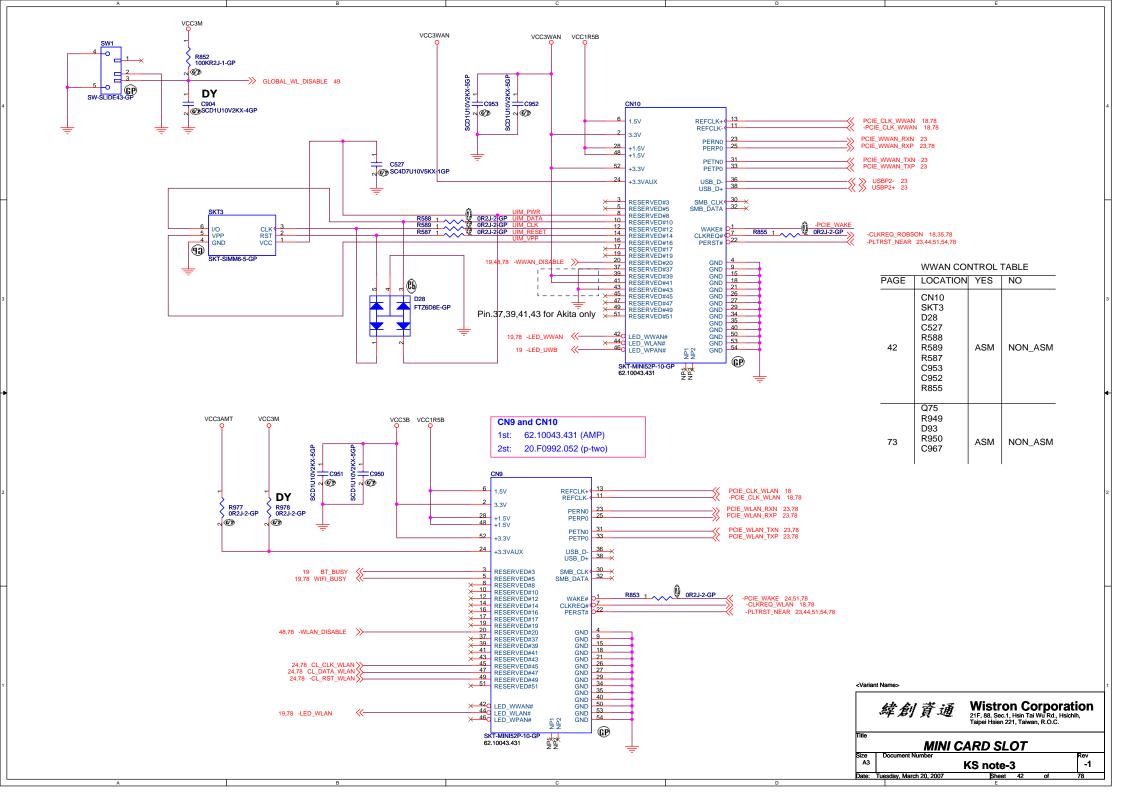
#### <Variant Name>

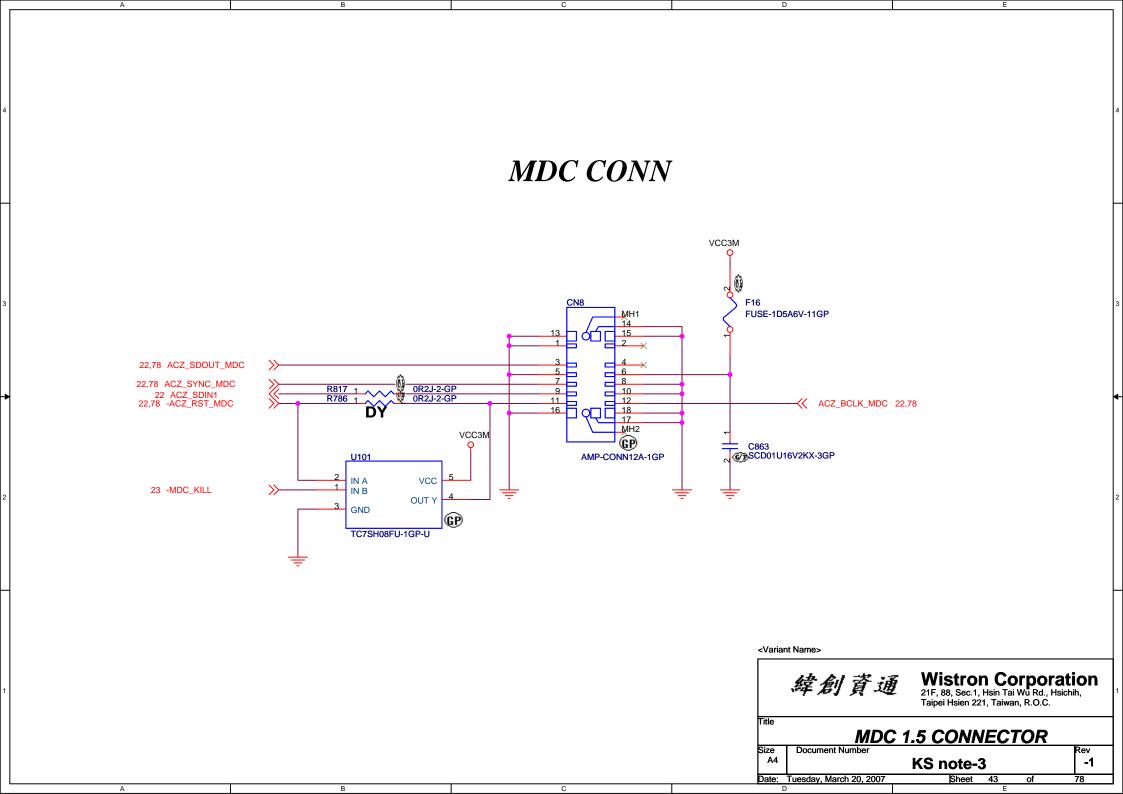


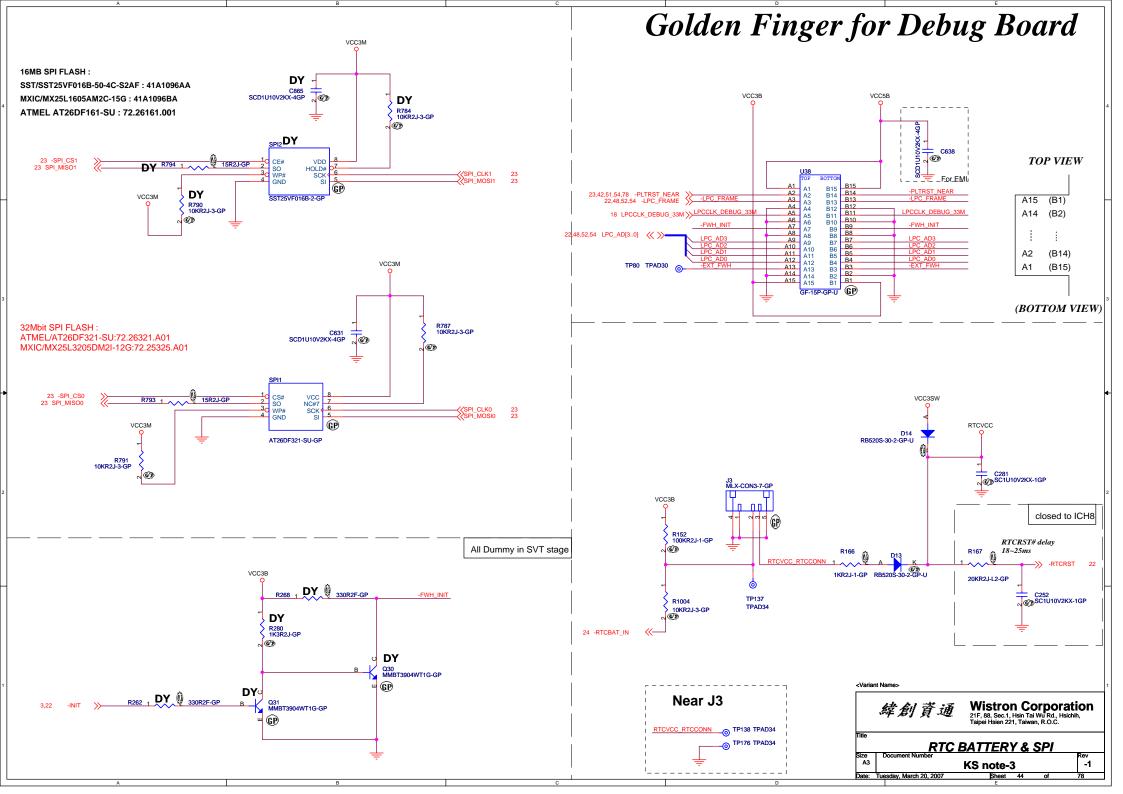
## Wistron Corporation 21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.

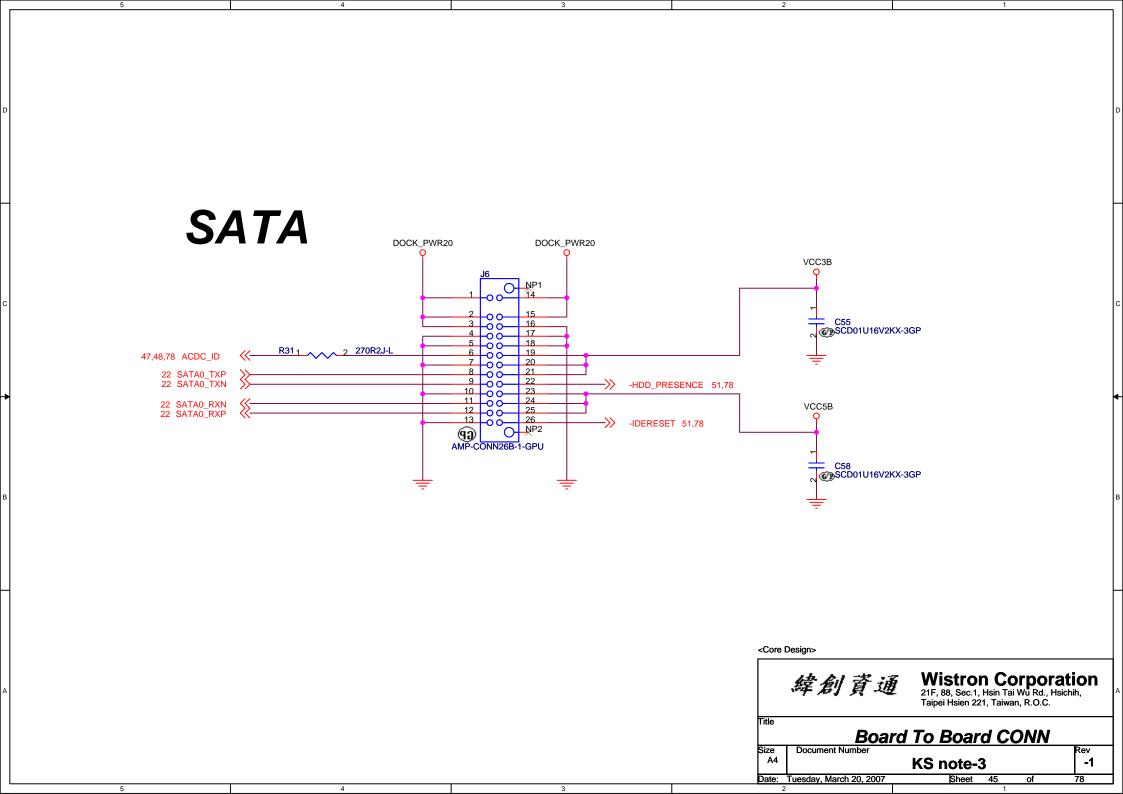
#### D 111/D IAE CONN

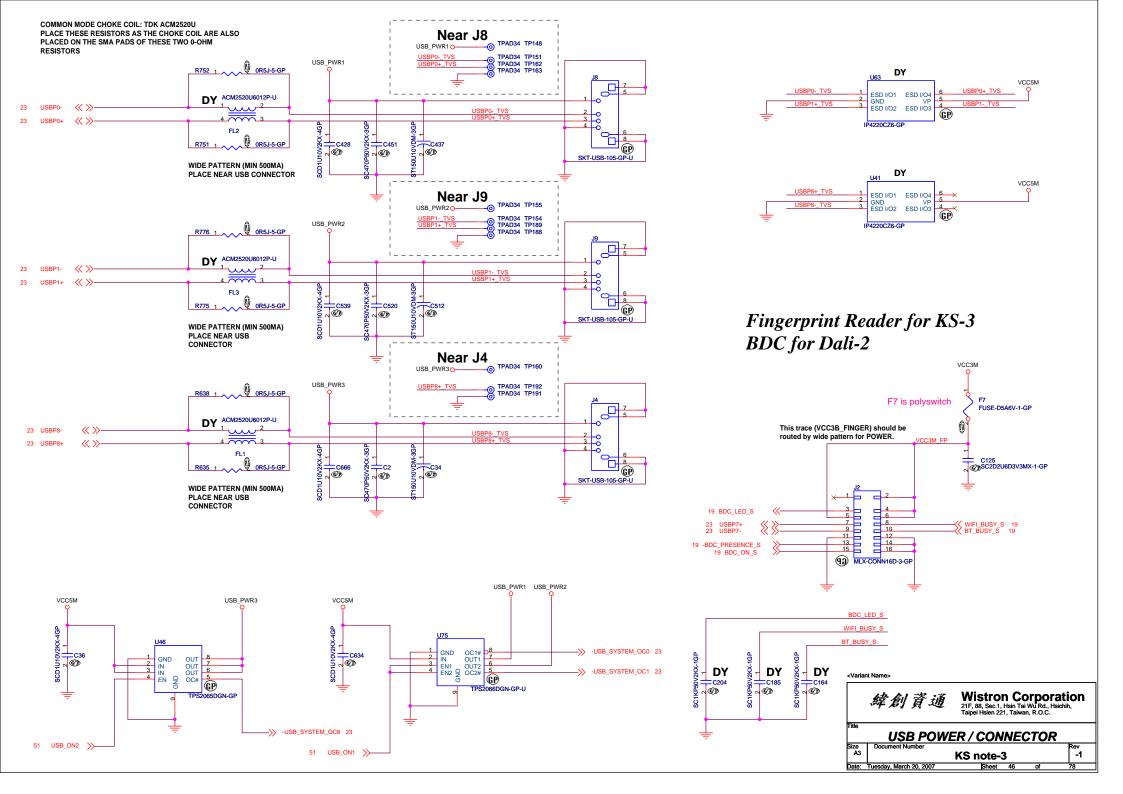
	RJ I I/RJ43 CUNN								
Siz		Document Number				Rev			
Ľ	۱4		KS note-	3		-1			
Dat	te:	Tuesday, March 20, 2007	Sheet	41	of	78			

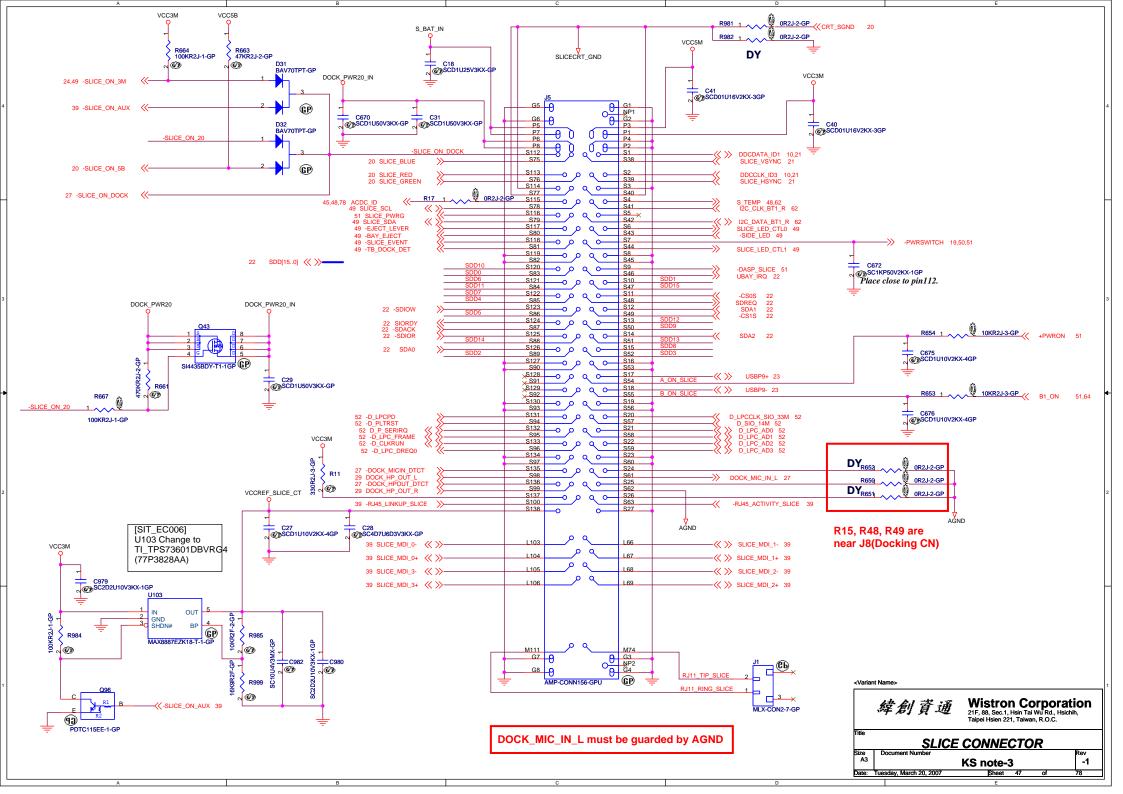


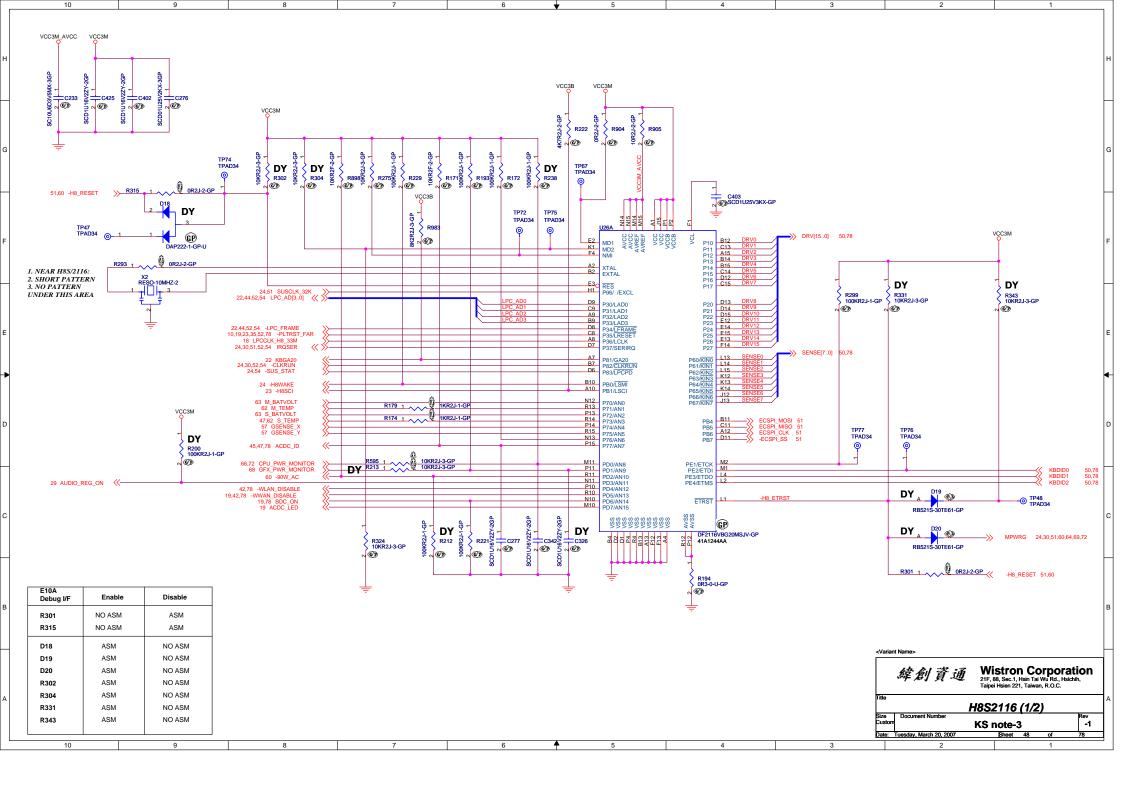


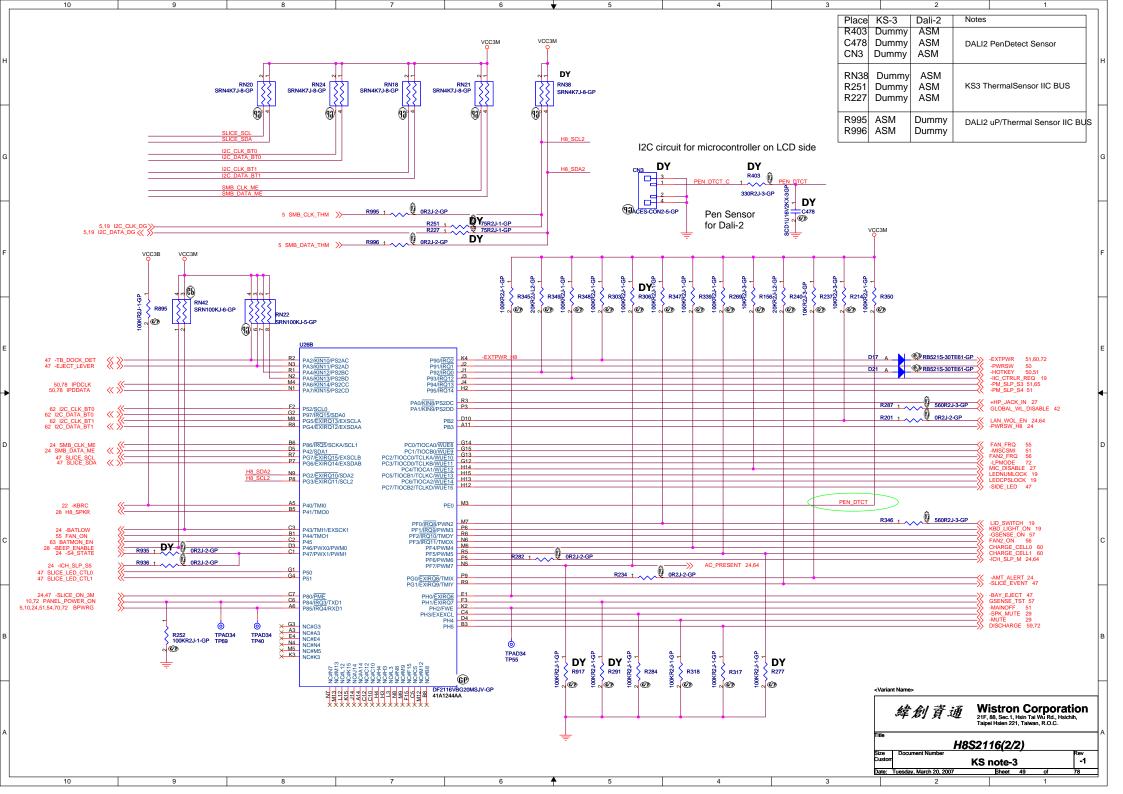




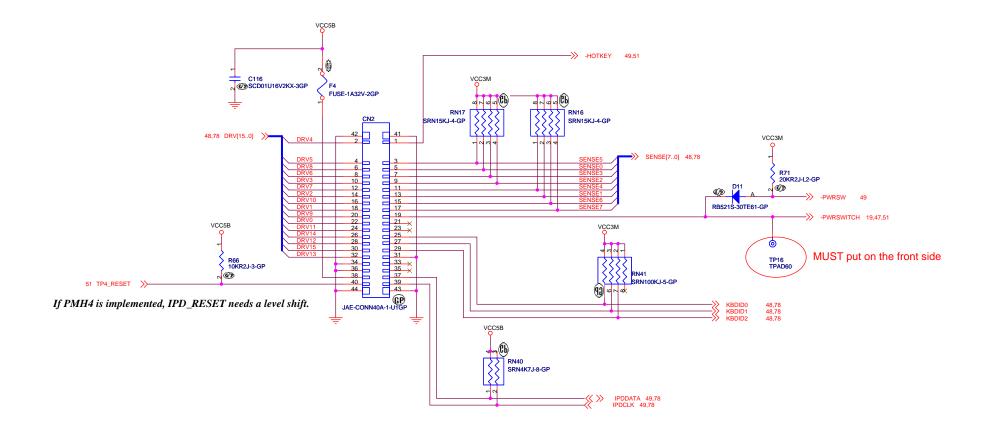


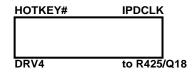






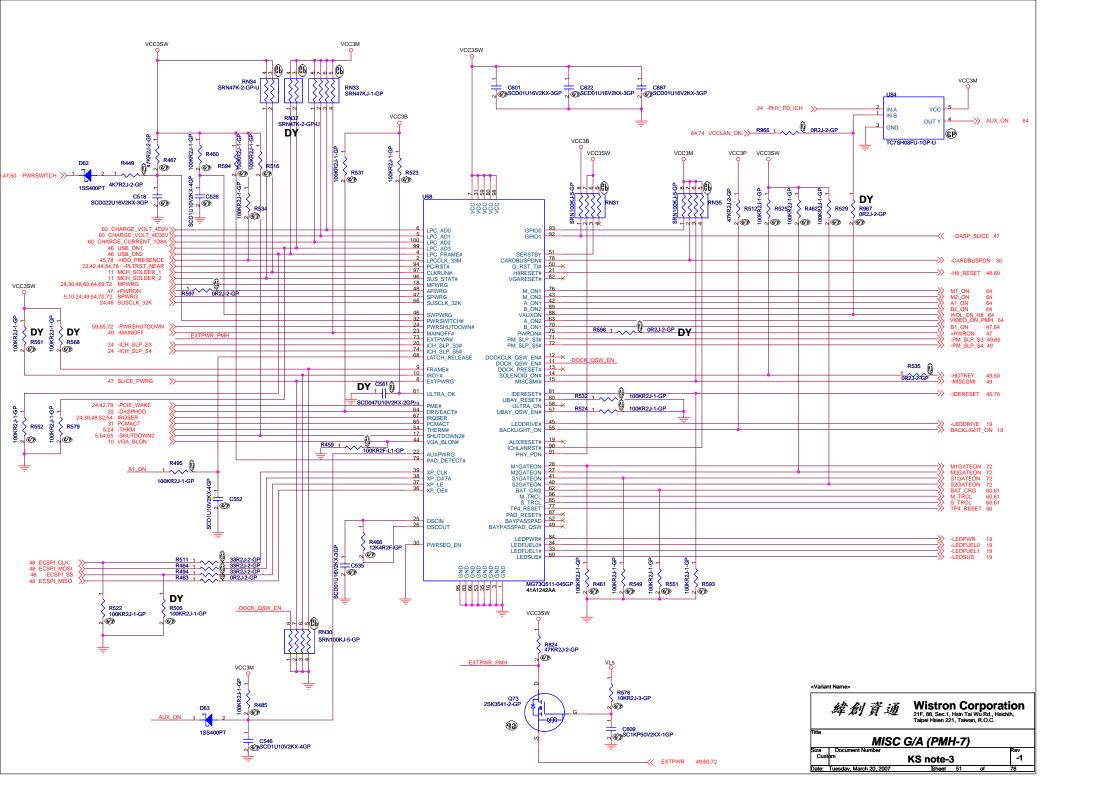
### **Keyboard Connector**

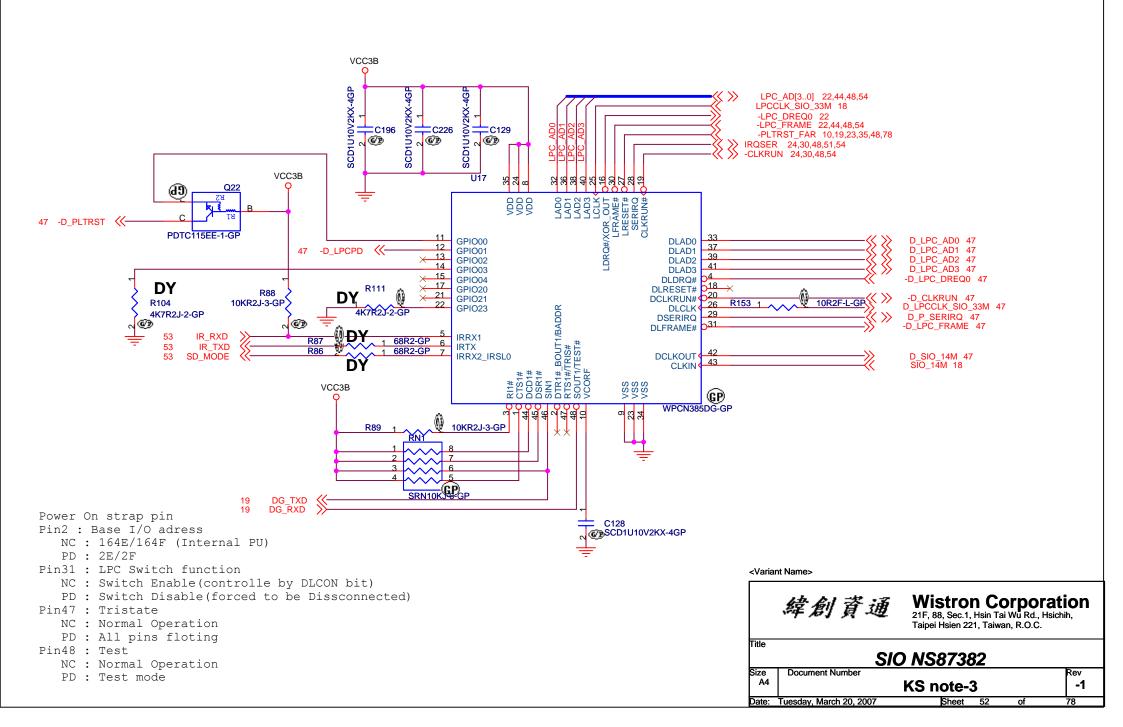


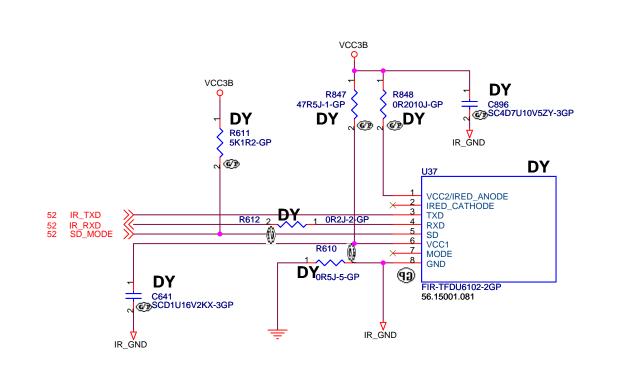


**Keyboard Connector Top View** 





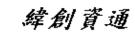




	VISHAY	ZILOG
R848	0Ω	0Ω
R847	47Ω	68Ω
C896	4.7uF	10uF
C641	0.1uF	1uF

**VISHAY** TFDU6102-TR3 : 56.15001.081 **ZILOG** ZHX2022 : 56.15004.011

<Variant Name>

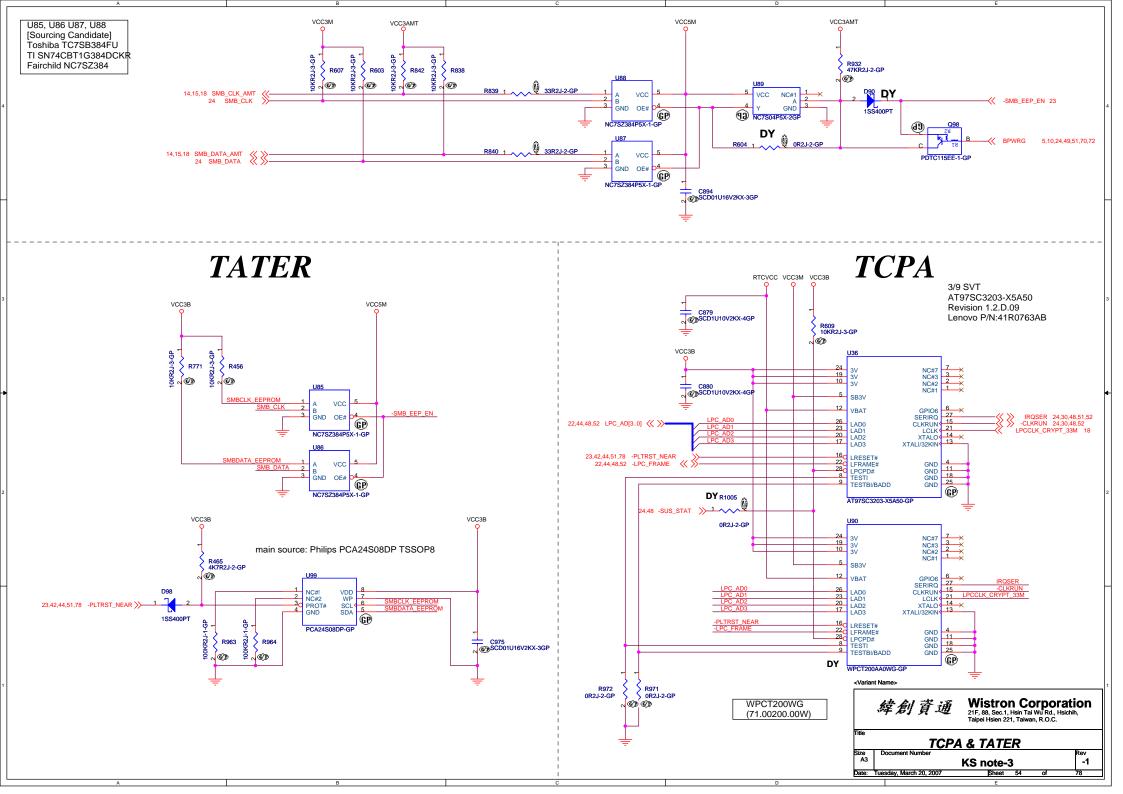


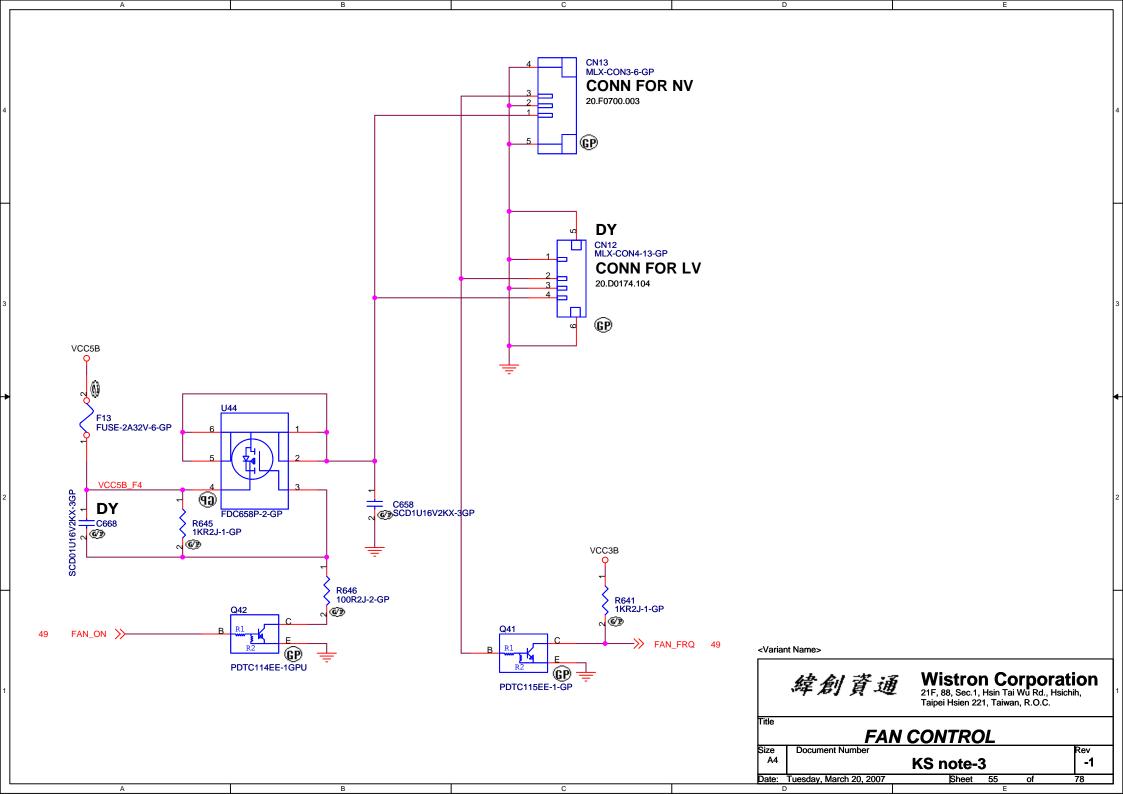
### Wistron Corporation 21F, 88, Sec. 1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.

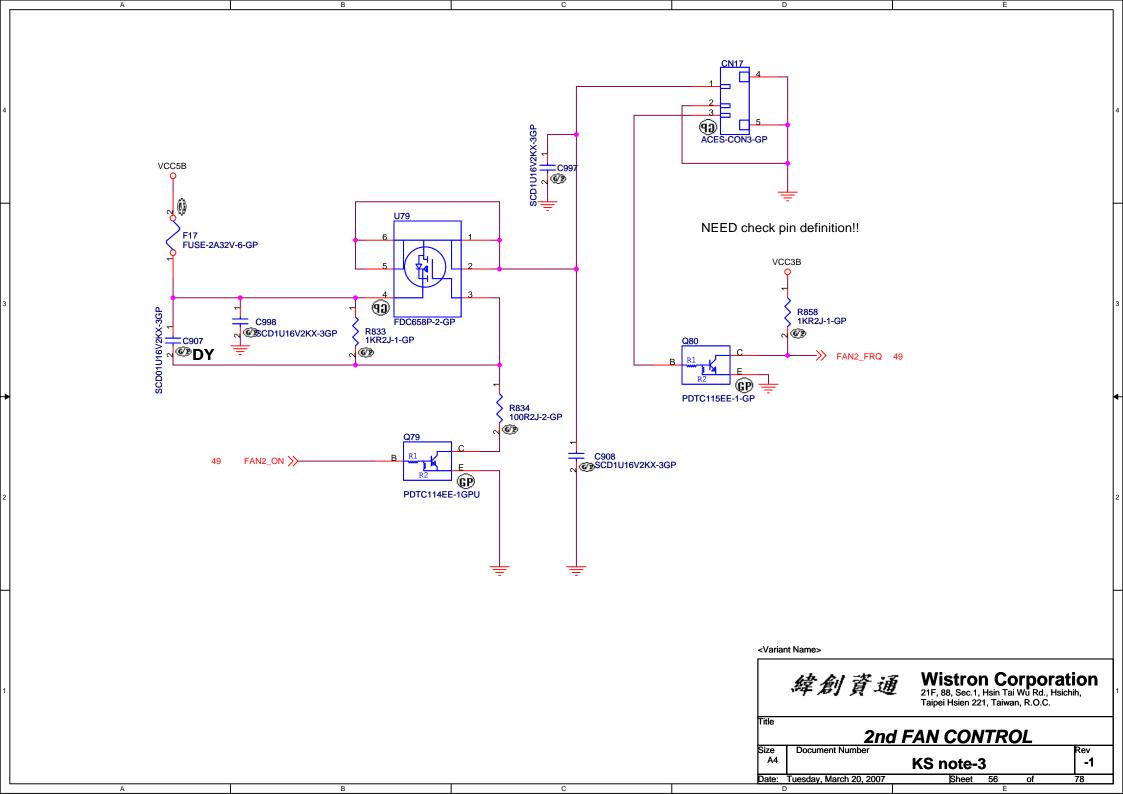
IR MODULE

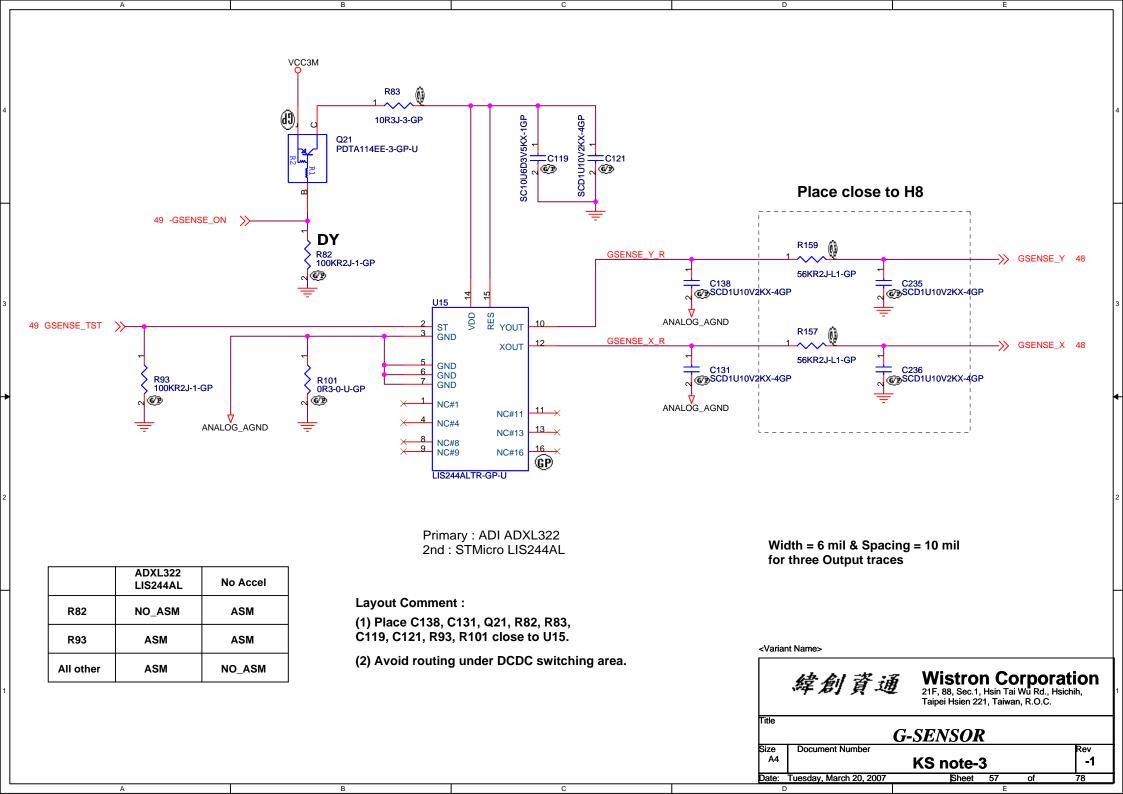
Document Number

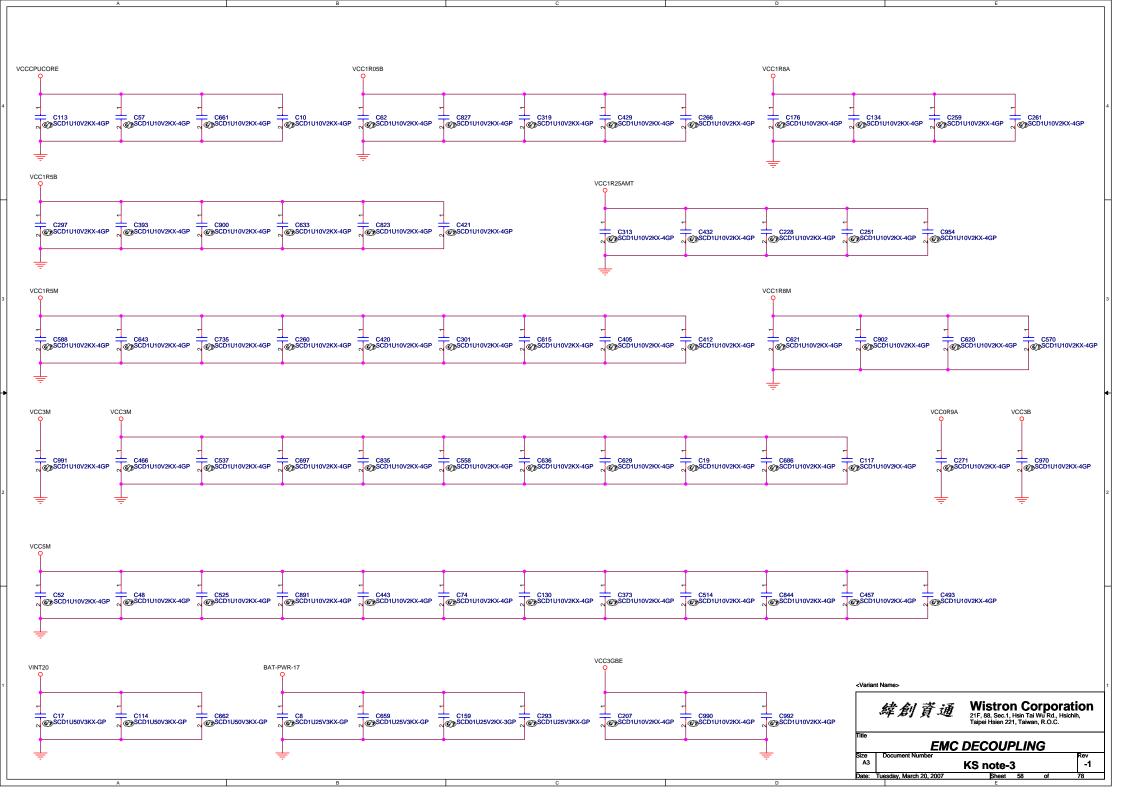
Size Rev A4 KS note-3 -1 Sheet 53 Date: Tuesday, March 20, 2007

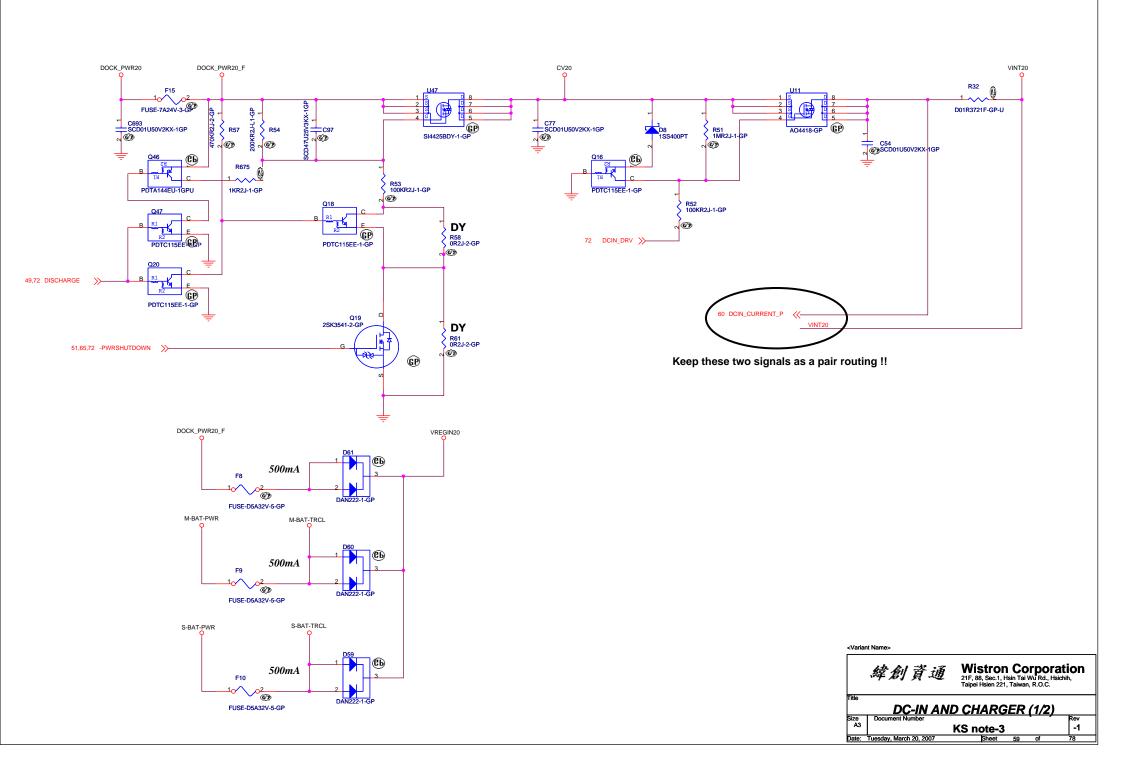


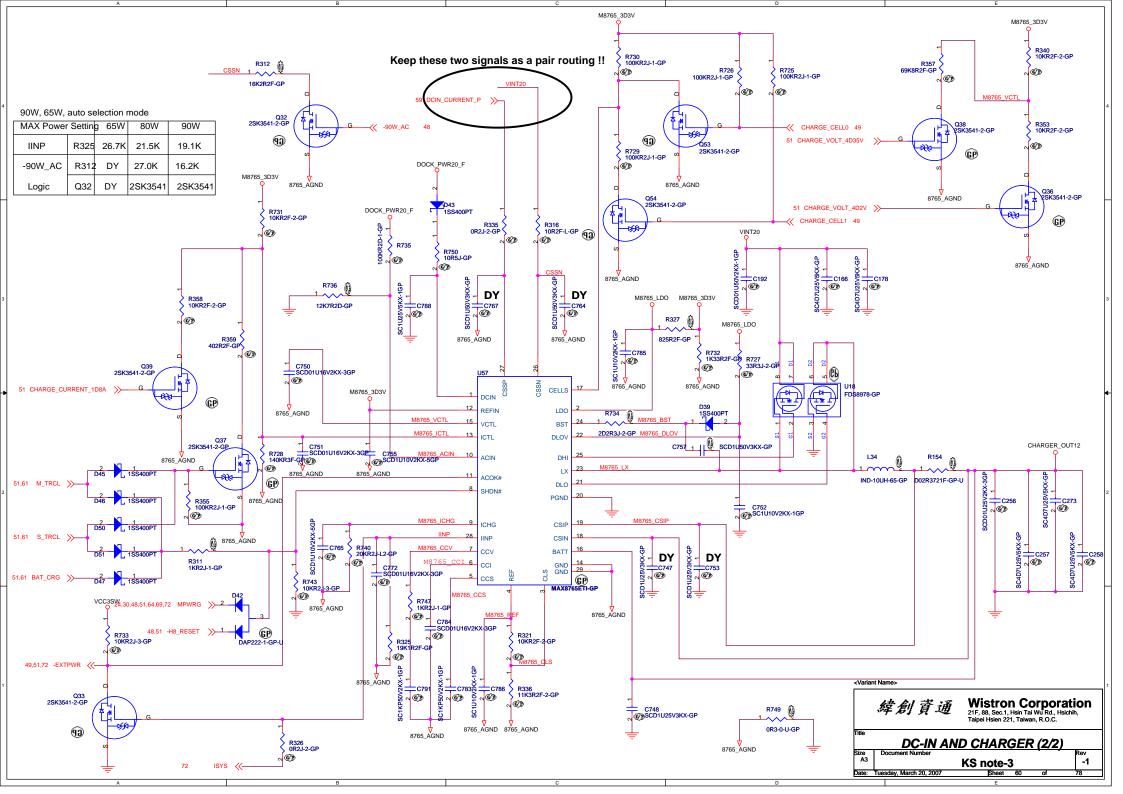


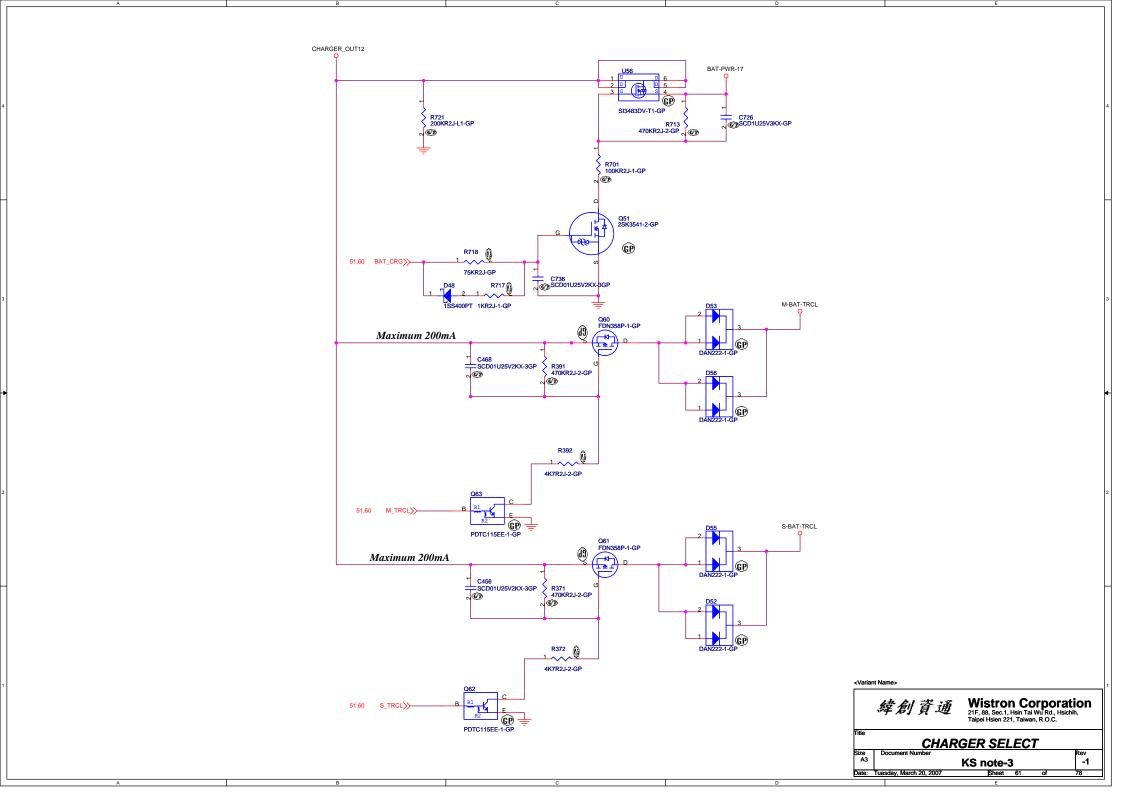


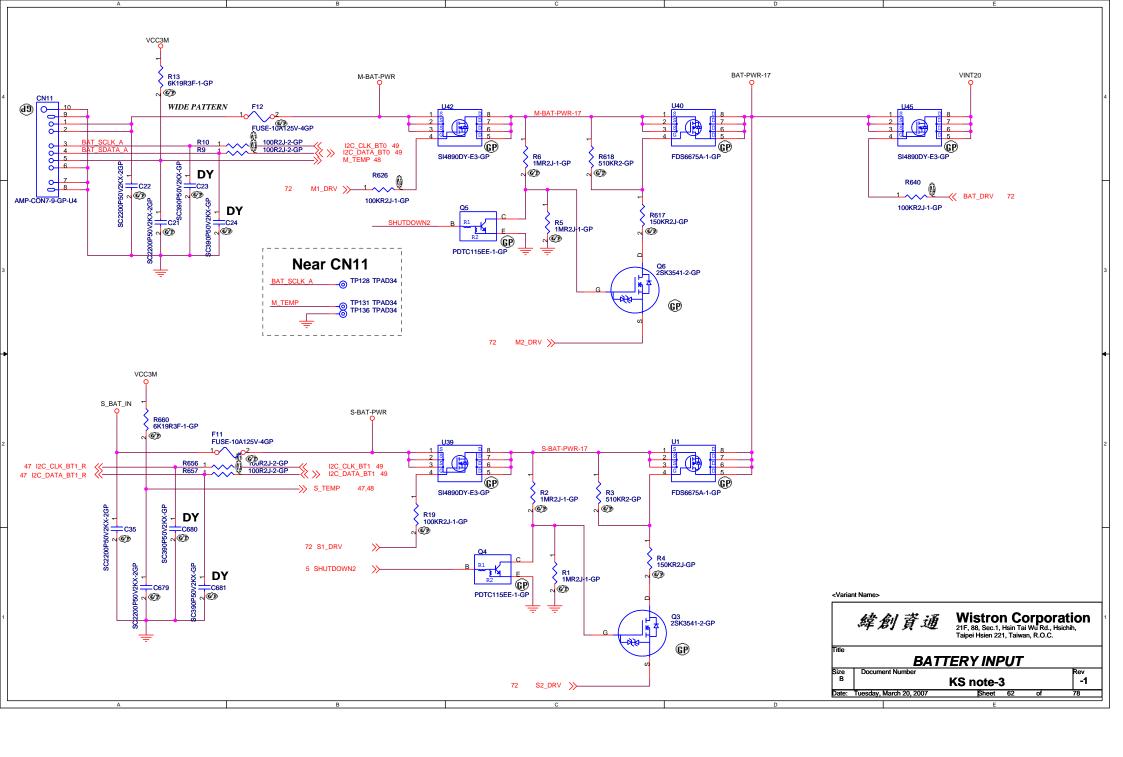


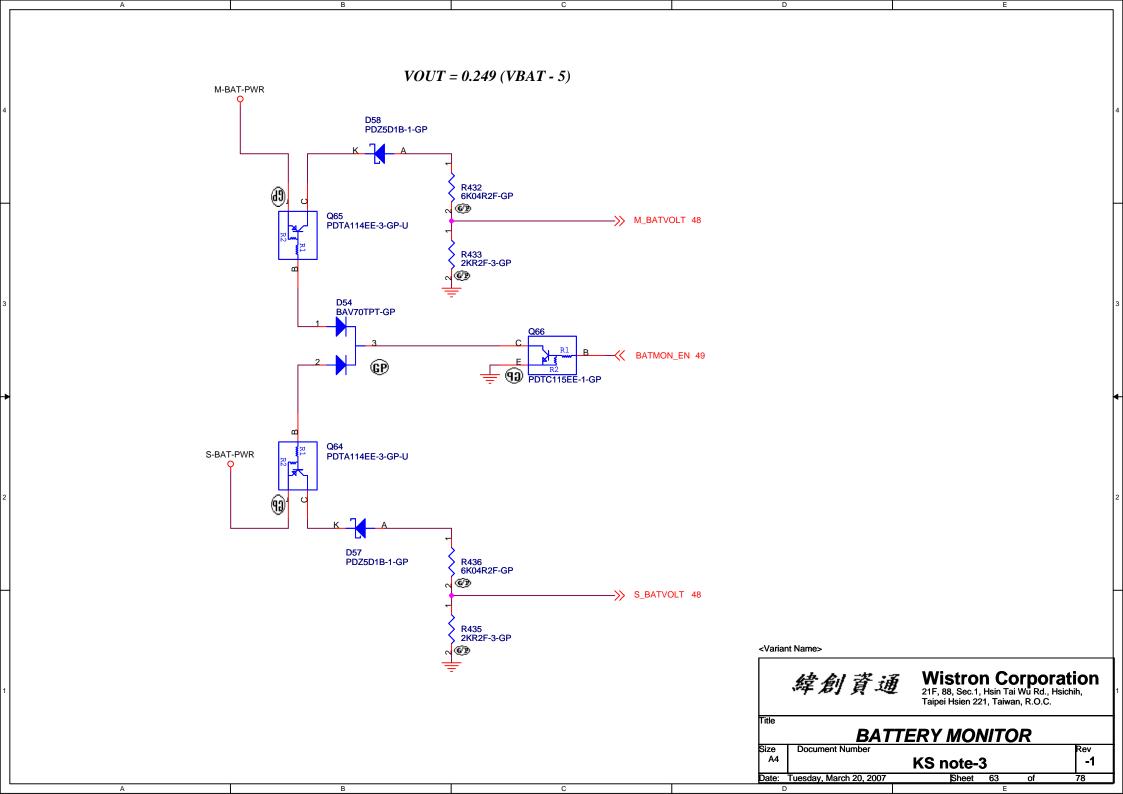


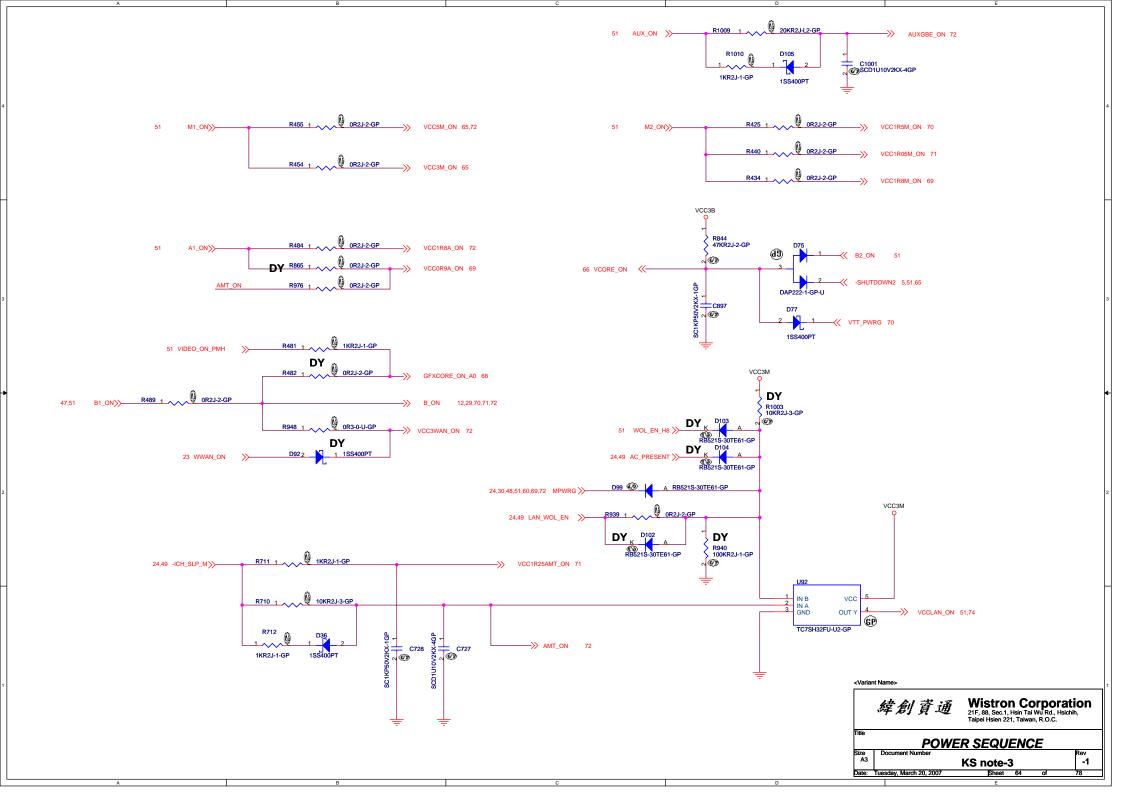


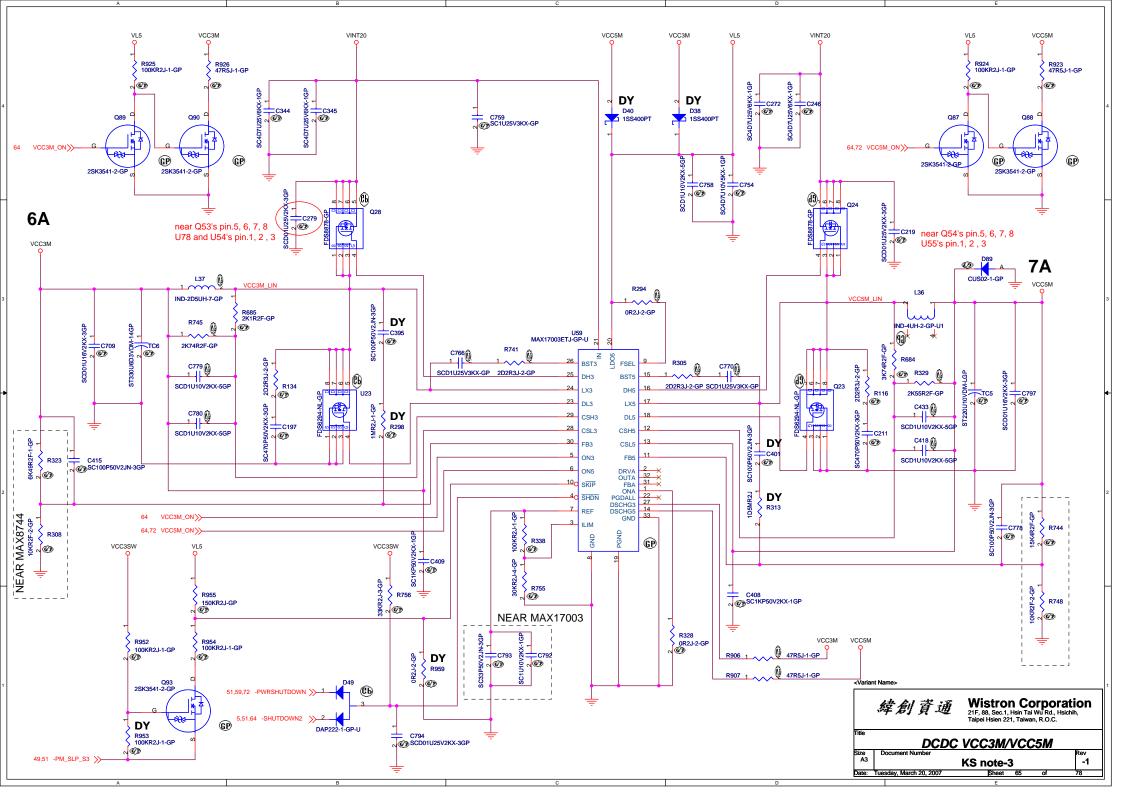


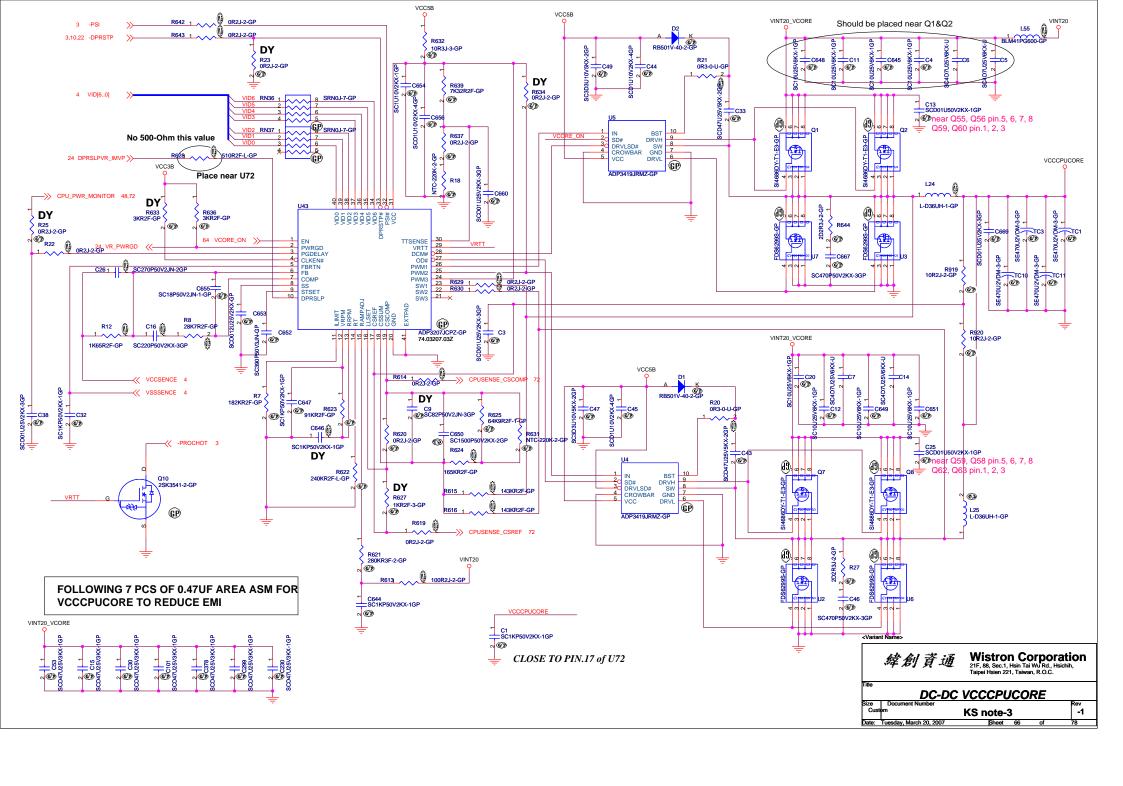












	Α		•	В	
	Reference	NV	LV	ULV	Remark
1	C12		DY	DY	
2	C648	40 5/05)/	DY	DY	
3	C649	10uF/25V K1206/X5R		DY	
4	C20		10uF/25V K1206/X5R	DY	1/D MI 00 0A D
5	C651			DY	I/P MLCC CAP
6	C5		DY	DY	
7	C6	4.7uF/ 25V	DY	DY	
8	C7	K1206/ X5R	DY	DY	
9	C14		DY	DY	
10	Q1	FDS8880	FDS8880	DY	CH1 H/S MOS
11	U7	FDS6299S	FDS6299S	DY	CH1 L/S MOS
12	Q8	FDS8880	DY	DY	CH2 H/S MOS
13	U6	FDS6299S	DY	DY	CH2 L/S MOS
14	Q7	FDS8880	DY	DY	CH2 H/S MOS
15	U2	FDS6299S	DY	DY	CH2 L/S MOS
16	C59		10uF/6.3V K0805/X5R	DY	
17	C61			DY	
18	C63			DY	
19	C66			DY	
20	C81	10uF/6.3V		DY	
21	C82	K0805/X5R		DY	
22	C93			DY	
23	C94			DY	
24	C106			DY	
25	C110			DY	O/P MLCC CAP
26	C65			DY	
27	C68			DY	
28	C88			DY	
29	C103	22uF/6.3V	22uF/6.3V	DY	
30	C105	M0805/X5R	M0805/X5R	DY	
31	C108			DY	
32	C104			DY	
					1

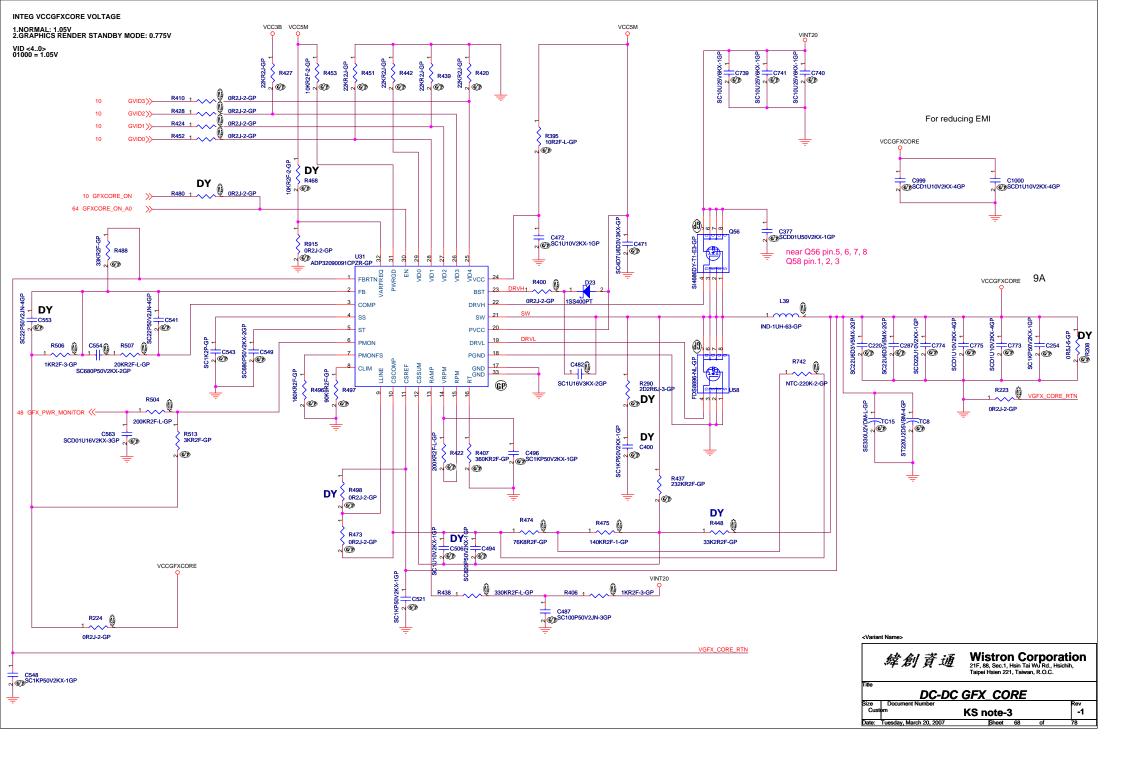
	Reference	NV	LV	ULV	Remark	
34	TC1	470uF/2V	470uF/2V M7343/ESR6	DY	O/P CAP	
35	35 TC10 ESI		DY	DY	O/F CAF	
36	U4	AD3419	DY	DY	CH2 Driver IC	
37	C45	0.1uF/10V K0402/X5R	DY	DY		
38	C47	3.3uF/10V K0805/X5R	DY	DY		
39	C43	0.47U/25V K0805/X7R	DY	DY		
40	C25	0.01U/50V K0402/X7R	DY	DY	CH2 Driver Circuit	
41	R20	0J 1/10W 0603	DY	DY		
42	R920	10 J 1/16W 0402	DY	DY		
43	D1	RB501V-40 1A40V UMD2	DY	DY		
44	R27	2.2 J 1/10W 0603	DY	DY	CH2 SUNBBER	
45	C46	470pF/50V K0402/X7R	DY	DY	ONE SONDBER	
46	R630	0 J 1/16W 0402	DY	DY	disable ch2	
47	R616	143K F 1/16W0402	DY	DY	CH2 FB	
48	L25	0.36UH	DY	DY	CH2 CHOKE	
49	L24	0.36UH	0.36UH	0.56UH	CH1 CHOKE	
50	R634	DY	0 J 1/16W 0402	0 J 1/16W 0402		
51	R622	240K	267K	487K	RT	
52	R624	165K	160K	165K	loadline for FB	
53	R7	182K	301K	316K	I LIMIT(OCP)	
54	R621	280k	280k	200K	RAMPADJ	
55	R615	143K	220K	80.6K	CH1 FB	
56	R623	91K	91K	150K	VRPM	
57	C9	DY	DY	330PF	transion FB	
58	C650	1500pF	1000pF	1500pF	transion FB	

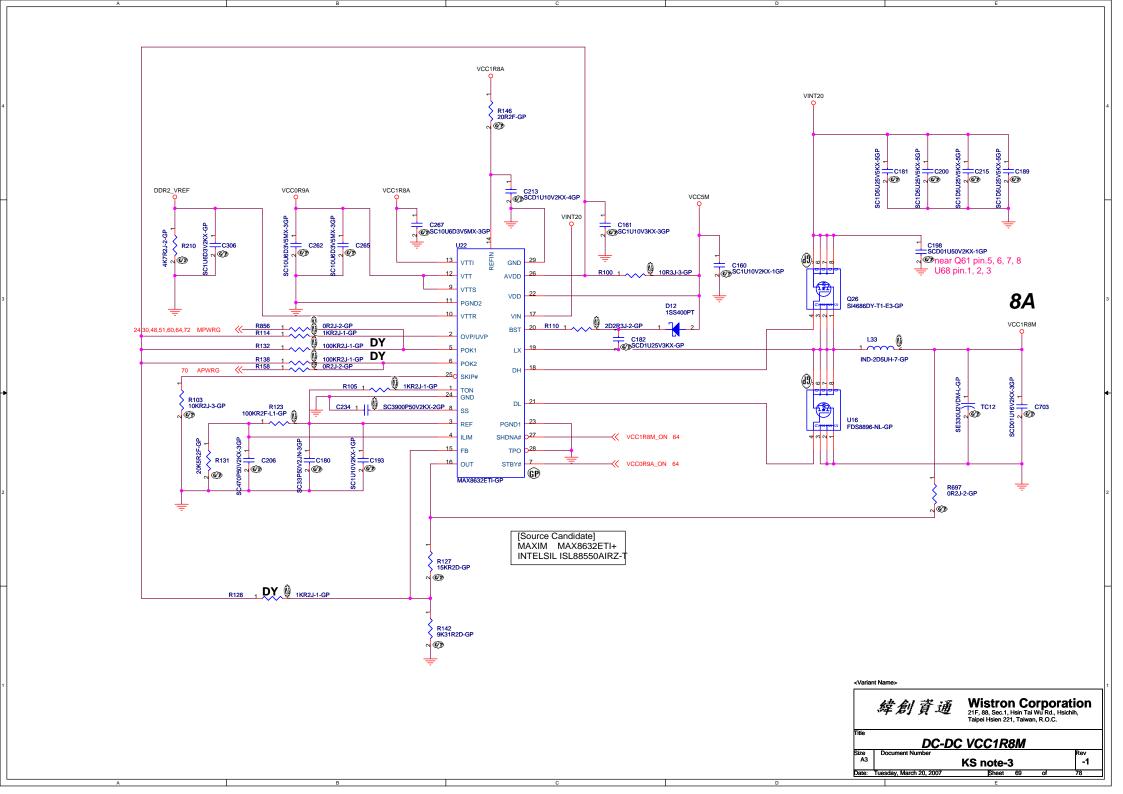
<Variant Name>

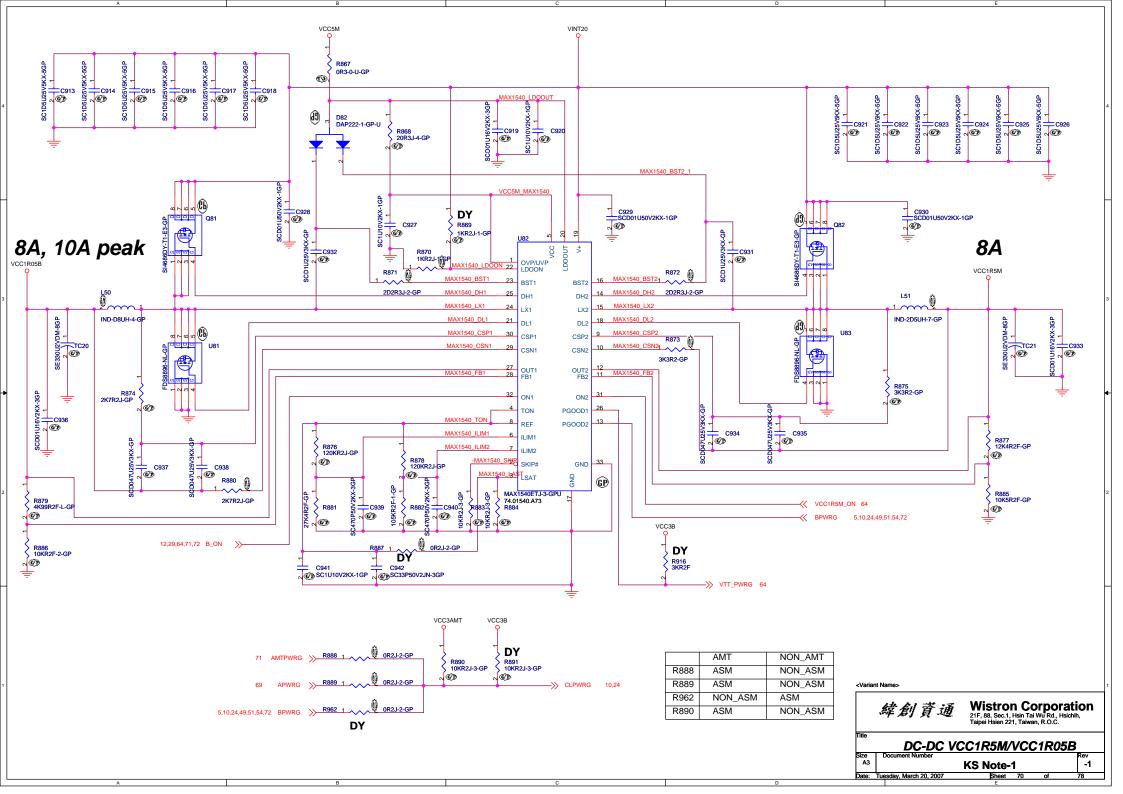


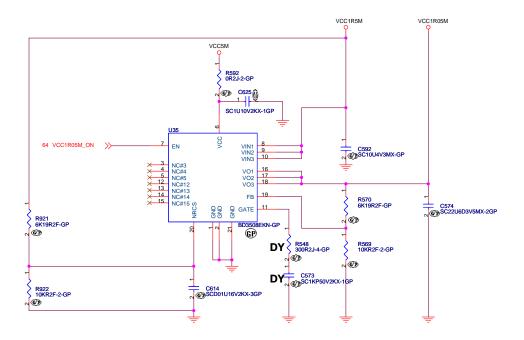
### Wistron Corporation 21F, 88, Sec. 1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan, R.O.C.

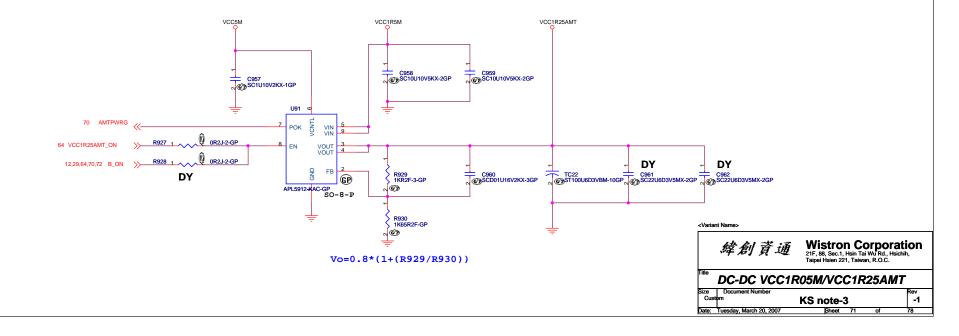
VCCCPUCORE TABLE
Size Document Number
Custom Rev -1 KS note-3

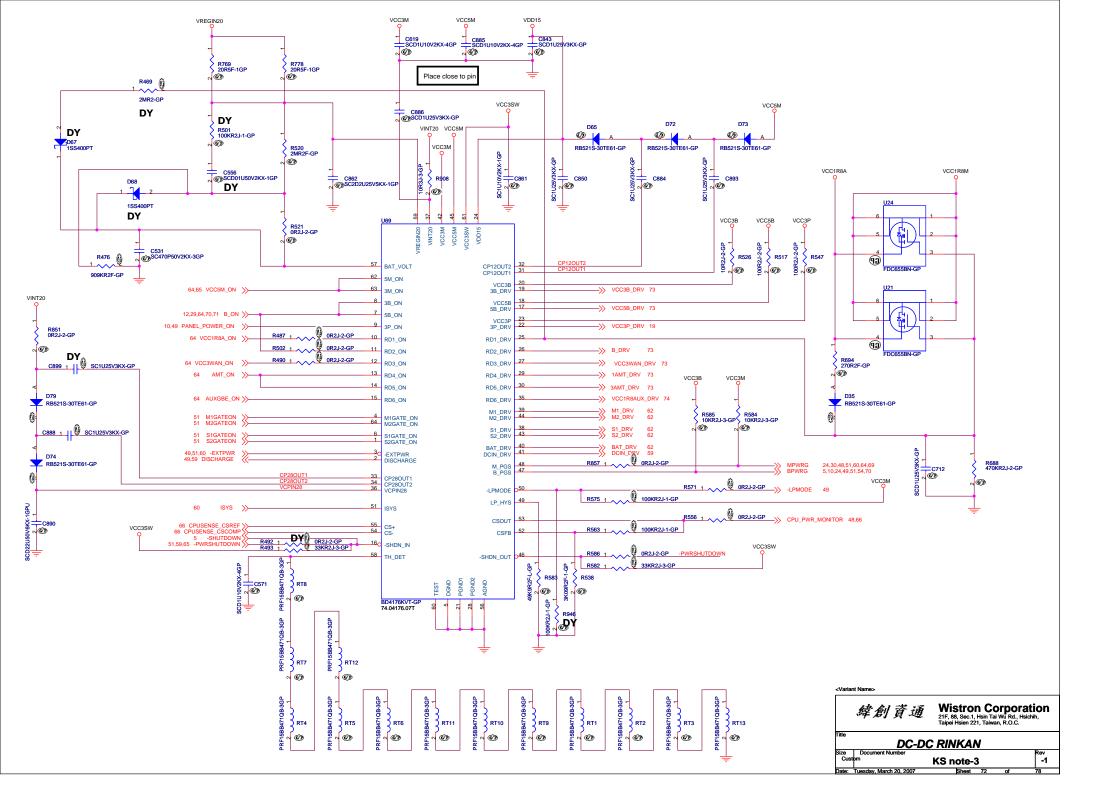


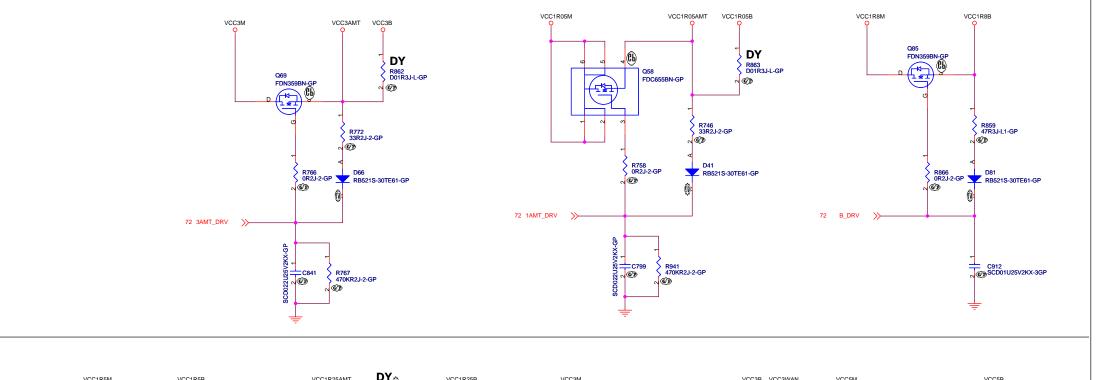


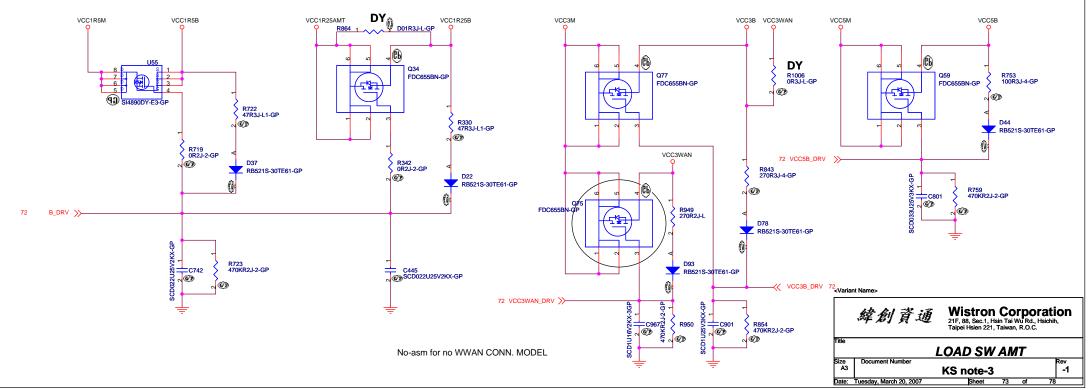


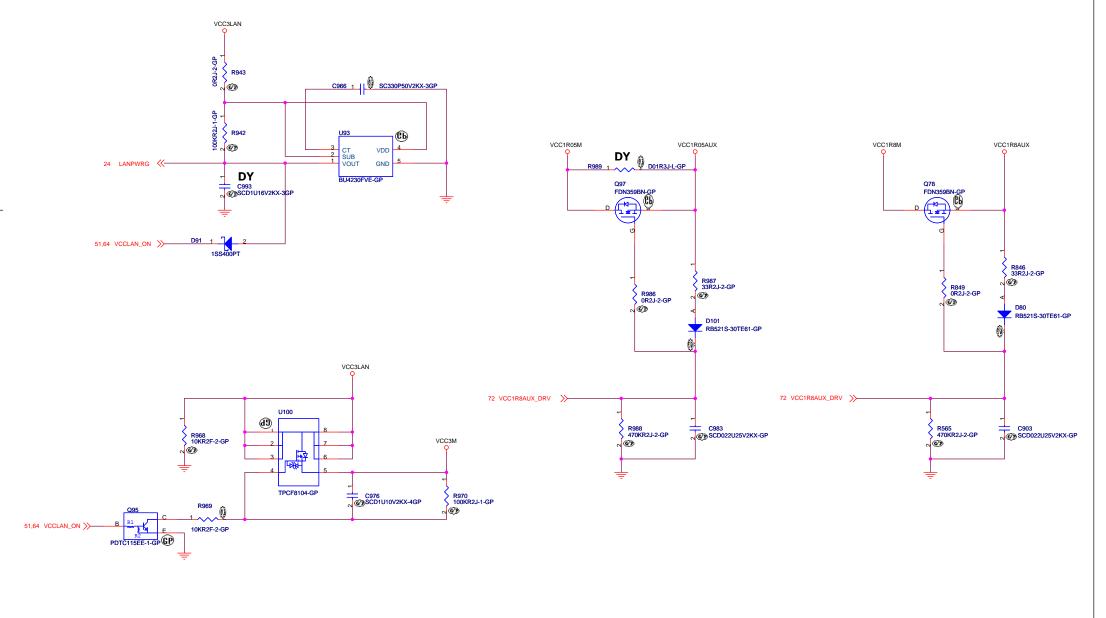


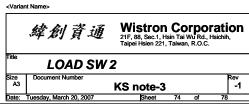


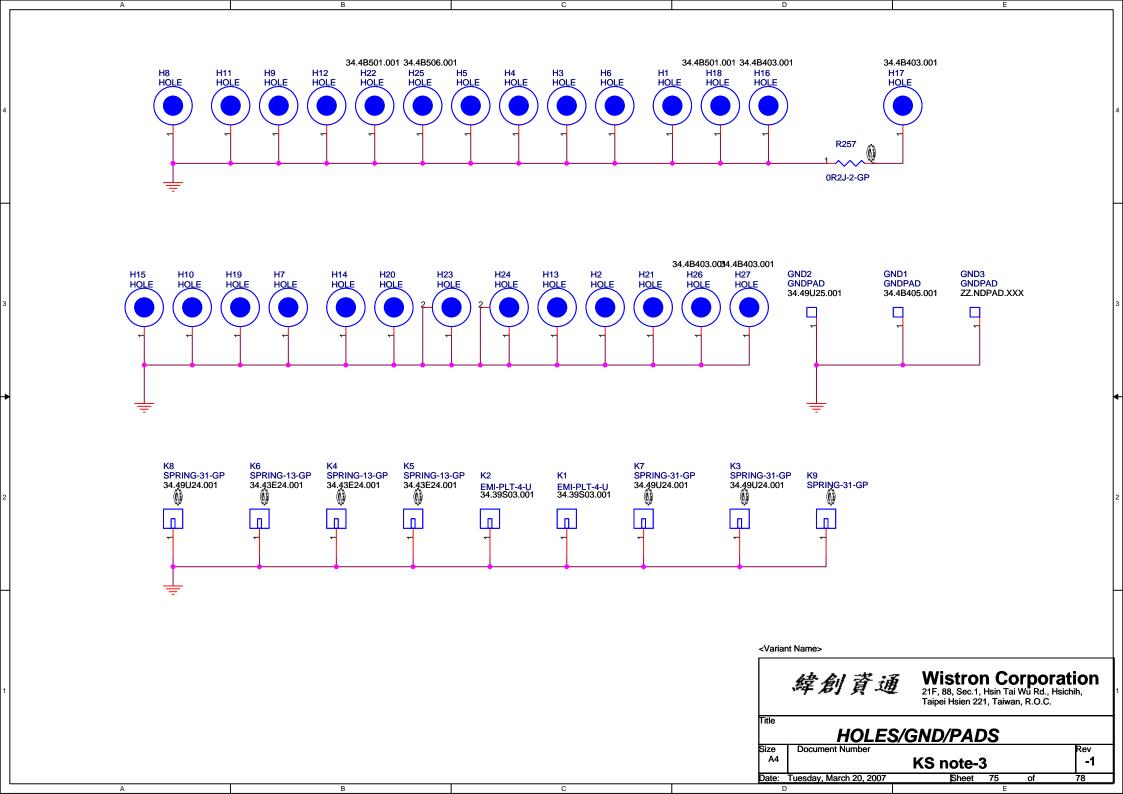












### Comparison chart , KS-3 and Dali-2

Item	Page	Location Netname	KS-3	Dali-2	Modify	Note
		U104	Dummy	ASM		
1	5	U105	Dummy	ASM	1	DALI2 uP/Thermal Sensor IIC BUS
1	5	U106	Dummy	ASM	1	
		R36	100Ω	0Ω		KS3: WLAN LED/Dali2 VCC3B
		R85	Dummy	0Ω		
		R107	Dummy	0Ω		Bluettoth IO
		R98	Dummy	0Ω		
		R96	Dummy	0Ω		
		R668	200Ω	Dummy		
2	19	C691	ASM	Dummy		Think Light
2.	13	Q44	ASM	Dummy		
		Q13,Q14,Q15	PDTC114EE	Dummy		
		R37	200Ω	Dummy		LED ACDC
		R42	330Ω	Dummy		LED NUMLOCK
		R43	330Ω	Dummy		LED CAPSLOCK
		R26	ASM	Dummy		LID SWITCH
		R35	0Ω	0.5A Fuse		
		CN6	Dummy	ASM		
		C578	Dummy	0.1uF	1	DALI2 INTMIC LOGIC
		R567	Dummy	ASM	1	
	27	CN7	ASM	Dummy		MIC
3		R819	1.2KΩ	Dummy		
		R804	2.2ΚΩ	Dummy		
	1	R813	ASM	Dummy		KS3 INTMIC LOGIC
		C872	10uF	Dummy		
		C877	1uF	Dummy	1	
		7.400		2200		
		R403	Dummy	330Ω		DALI2 BanDatast Sansar
		C478	Dummy	0.1uF		DALI2 PenDetect Sensor
		CN3	Dummy	ASM		
4	49	RN38	Dummy	ASM	4	KS3 ThermalSensor IIC BUS
		R251	Dummy	ASM		KS3 ThermalSensor IIC BUS
		R227	Dummy	ASM		
		R995	ASM	Dummy		DALI2 uP/Thermal Sensor IIC BUS
		R996	ASM	Dummy		2nd FAN connector
		CN17	ASM ASM	Dummy		ZIIU FAIN COITHECTOI
		F17	ASM	Dummy	4	
		Q79	ASM	Dummy	-	
6	56	080		Dummy	4	
		Q80 R833	ASM	Dummy	4	2nd EAN logic
			ASM	Dummy	4	2nd FAN logic
		R834	ASM	Dummy		
		R858	ASM	ASM	4	
		U79	ASM	Dummy		
5	75	GND1	ASM	Dummy		ME ANTENNA ROUTING CLIP
		GND2	ASM	Dummy		

\*\*Variant Name>

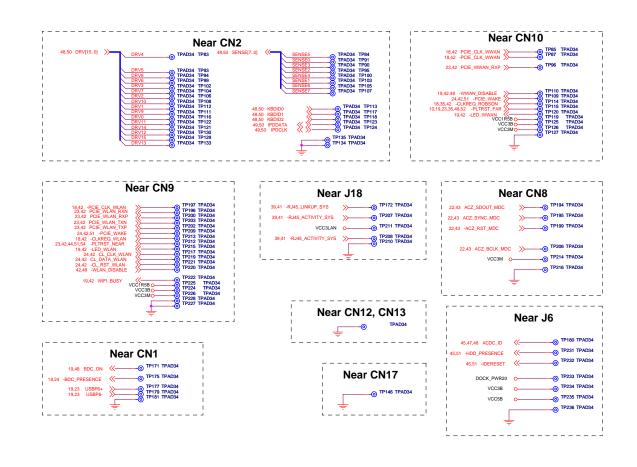
| 辞劇資通 Wistron Corporation 21F, 88, Sec.1, Hsin Tal Wu Rd, Hsichin, Talpiel Hsien 221, Taiwan, R.O.C.

| Title | Differents Between KS3 and Dali2 |
| Size | A3 | Document Number | KS note-3 | -1 |
| Date: Tuesday, March 20, 2007 | Sheet 76 of 78

### Comparison chart for AMT function

Item	Page	Location Netname	AMT	NON_AMT	Modify	Note
1	22	U60	ICH8m Enhanced	ICH8m		
	24	R270	NO_ASM	ASM		
	37	U74	Nineveh 82566MM	Nineveh 82566MC		
	44	SPI1	32Mbit	16Mbit		
	64	R711	ASM	NO_ASM		
	04	C728	ASM	NO_ASM		
		R888	ASM	NO_ASM		
		R889	ASM	NO_ASM		
	70	R962	NO_ASM	ASM		
		R890	ASM	NO_ASM		
		R891	NO_ASM	NO_ASM		
	71	R927	ASM	NO_ASM		
	/ 1	R928	NO_ASM	ASM		
		R862	NO_ASM	ASM		
		Q69	ASM	NO_ASM		
		R766	ASM	NO_ASM		
		R772	ASM	NO_ASM		
	73	D66	ASM	NO_ASM		
		C841	ASM	NO_ASM		
		R767	ASM	NO_ASM		
		R941	ASM	NO_ASM		
	13	Q58	ASM	NO_ASM		
		R758	ASM	NO_ASM		
		R746	ASM	NO_ASM		
		D41	ASM	NO_ASM		
		C799	ASM	NO_ASM		
		R863	NO_ASM	ASM		
		Q34	ASM	NO_ASM		
		R342	ASM	NO_ASM		
		R330	ASM	NO_ASM		
		D22	ASM	NO_ASM		
		R864	NO ASM	ASM		





CVariant Names

Wistron Corporation
21F, 88, 5ec. 1, Hain Tal Wu Rd., Haichin,
Taipei Halen 221, Talwan, R.O.C.

Wistron Corporation
21F, 88, 5ec. 1, Hain Tal Wu Rd., Haichin,
Taipei Halen 221, Talwan, R.O.C.

Rev
C
Size Document Number
C
C
Size Noone-3
Bale: Tuesday, March 20, 2007
Sheet 78 of 78

# www.s-manuals.com