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PCIINT#	Device
USB1	System -1
USB2	P-R1
USB3	System-2
USB4	PR -2
USB5	Bluetooth
USB6	Bay

REQ#/GNT#	Device
REQ#0	PCMCIA
REQ#1	IEEE1394
REQ#2	Unused
REQ#3	On Board LAN
REQ#4	Mini PCI
REQ#5	Unused

PCIINT#	Device
INT#0	PCIC USB#1 / IDE
INT#1	PCIC SMBus/AC-97
INT#2	Mini-PCI USB#3
INT#3	Mini-PCI USB#2
INT#4	On Board LAN
INT#5	IEEE1394
INT#6	Unused
INT#7	Unused

SMBCNT[2:0]	Device
0,0,0	DIMM SLOT-0/1
0,0,1	PMU
0,1,0	PLL
0,1,1	ADM1030

IDSEL	Dev.ID	Device
AD16	00h	GMCH(HOST/DRAM BRIDGE)
AD17	01h	GMCH(AGP BRIDGE)
AD18	02h	Unused
	1Dh	ICH4-M (USB2.0/USB1.1)
	1Eh	ICH4-M(Hub I/F to PCI Bridge)
	1Fh	ICH4-M(LPC,IDE,SMbus,AC-97)

IDSEL	Dev.ID	Device
AD24	08h	Reserved for ICH4 (Internal LAN)
AD25	09h	OnBoard LAN
AD26	0Ah	PCIC
AD28	0Ch	On Board LAN
AD29	0Dh	MiniPCI
AD30	0Eh	IEEE1394
AD31	0Fh	Unused

DWG#	Description
A5CP149522-XX	Ginger A/W requirement
A1CP134338-XX	Common H/W specification of mobile platform

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									VB161AX MAIN	
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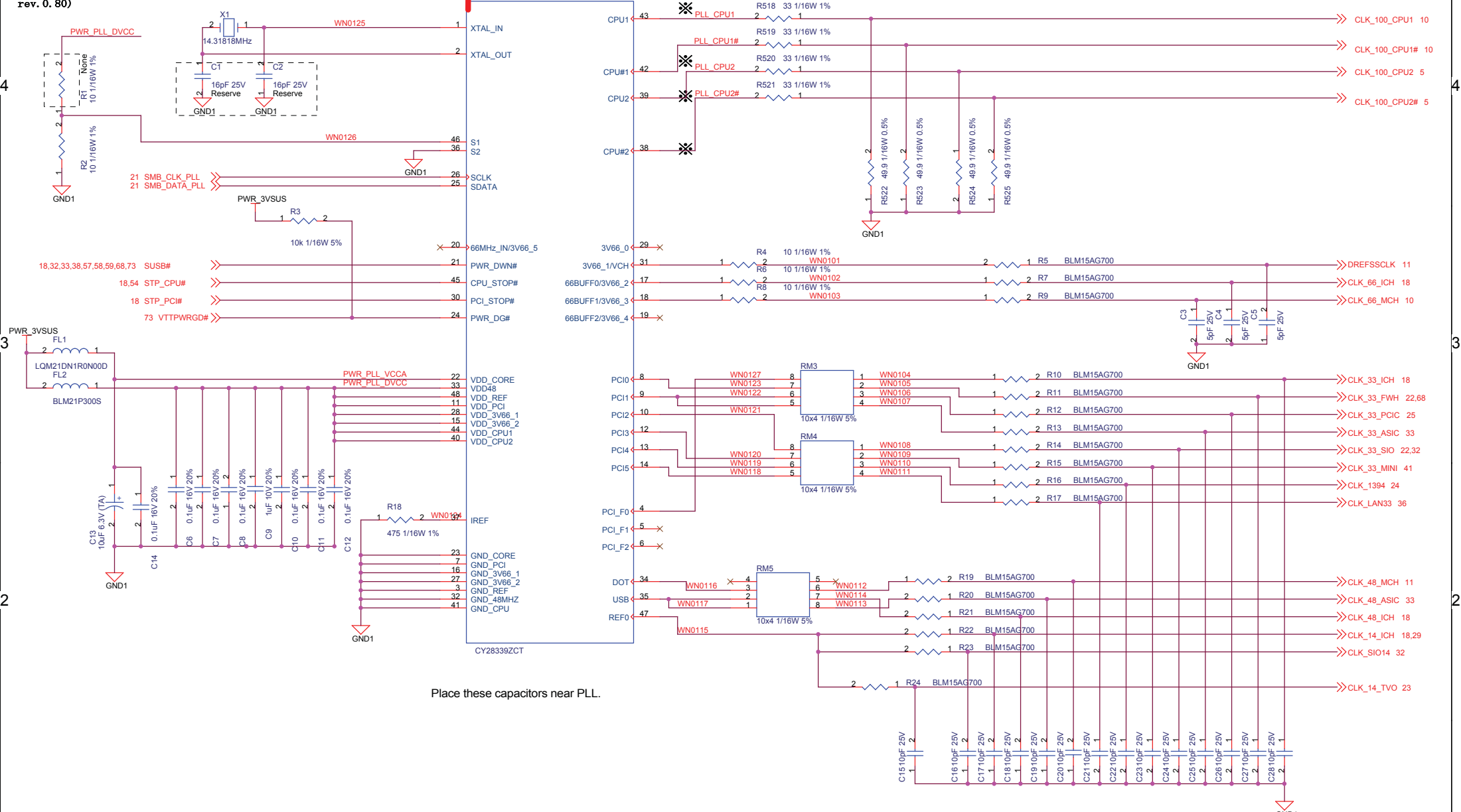


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Place crystal within 500mils of CLK_TITAN
(by ALMADOR-M CHIPSET/MOBILE TUALATIN
PROCESSOR
CUSTOMER REFERENCE BOARD SCHEMATICS
rev. 0. 80)

<http://hobi-elektronika.net>

NOTE: These test points use the PLL.
(Not as a as a test point requirements.)

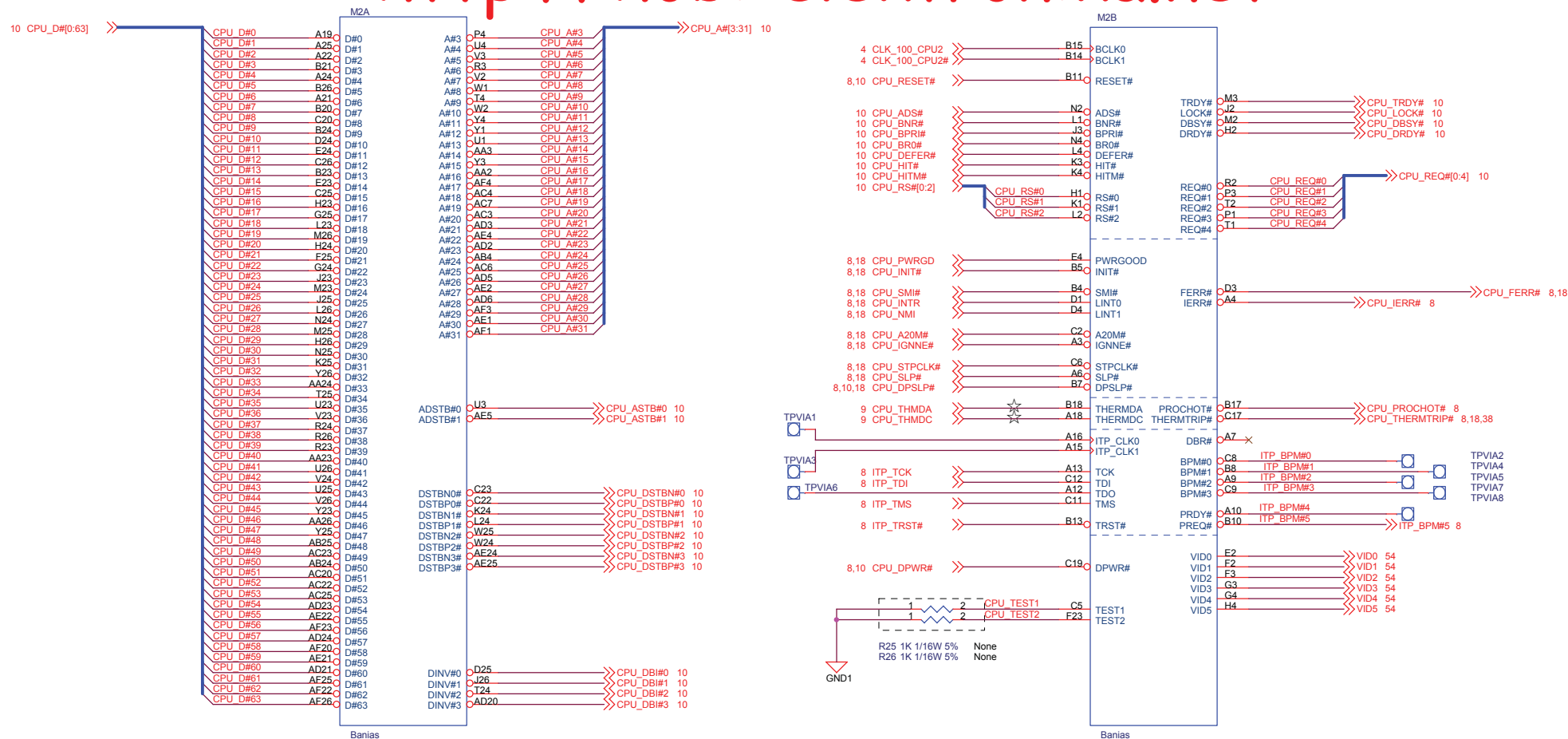


Place these capacitors near PLL.

Place each dumping resistor of clock line near PLL as possible.(less than 10mm)

PLL

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CPU_ASTB#0, CPU_ASTB#1はそれぞれの両側をGND1にて囲うこゝ
Guard CPU_ASTB#0, CPU_ASTB#1 with GND1 respectively.

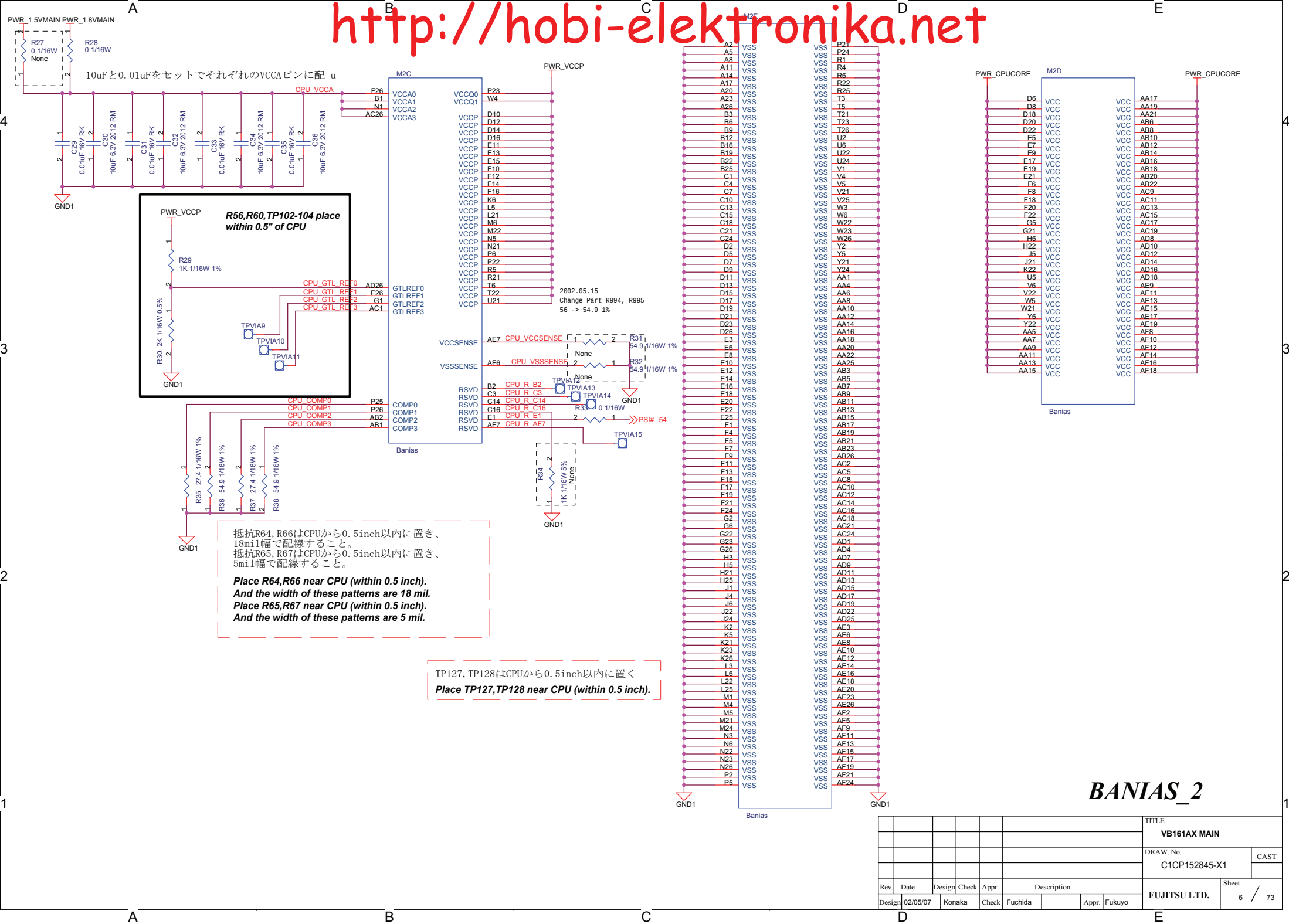
CPU_DSTBx#[0:3]は各ペアごとに両側をGND1にて囲うこゝ
Each CPU_DSTBx#[0:3] strobe pair should be guarded with GND1 respectively.

☆印の付いた信号線 (CPUTHMDA, CPUTHMDC) は、
GND1で両側をガードすること
(12ページ参照)

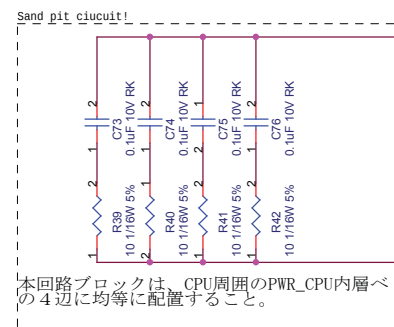
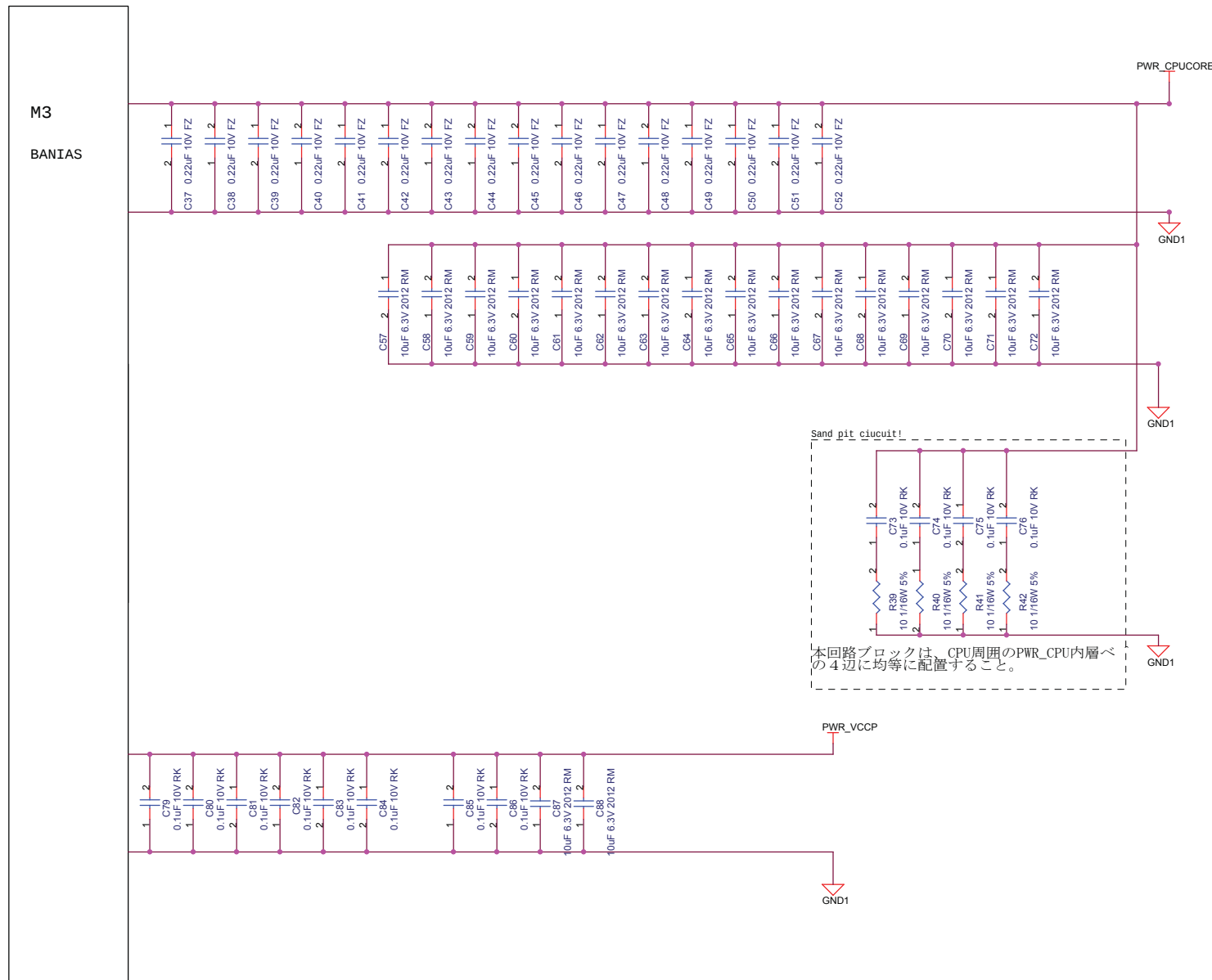
CPUTHMDA, CPUTHMDC with ☆
is guarded with GND1

BANIAS_1

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						Sheet	73
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						TITLE					
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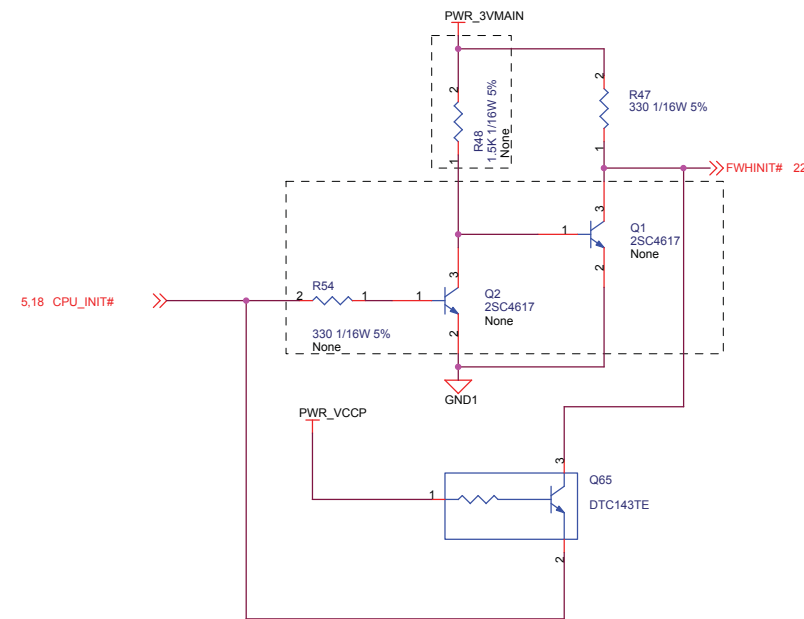
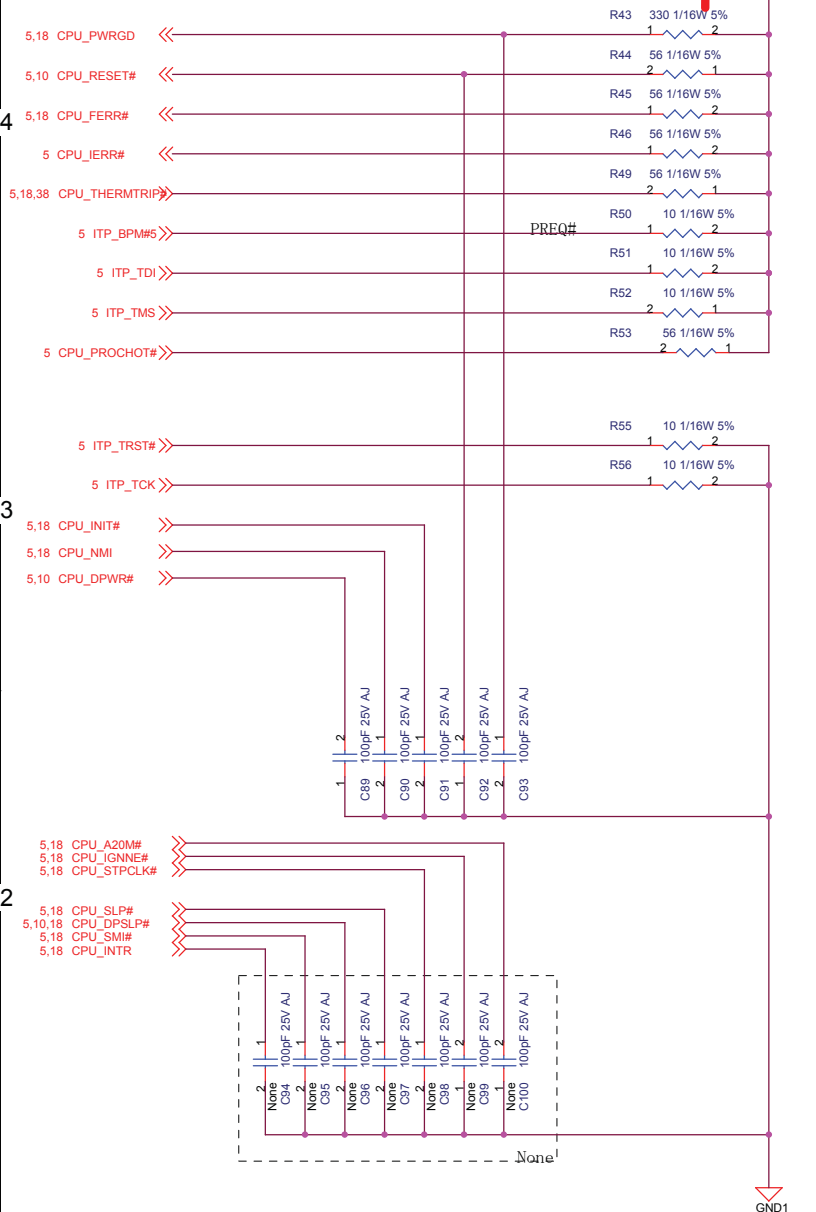


本回路ブロックは、CPU周囲のPWR_CPU内層への4辺に均等に配置すること。

図中のコンデンサはCPUVCC供給側に配置すること。

CPU
PassC

												TITLE	
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***GTL
PullUp***

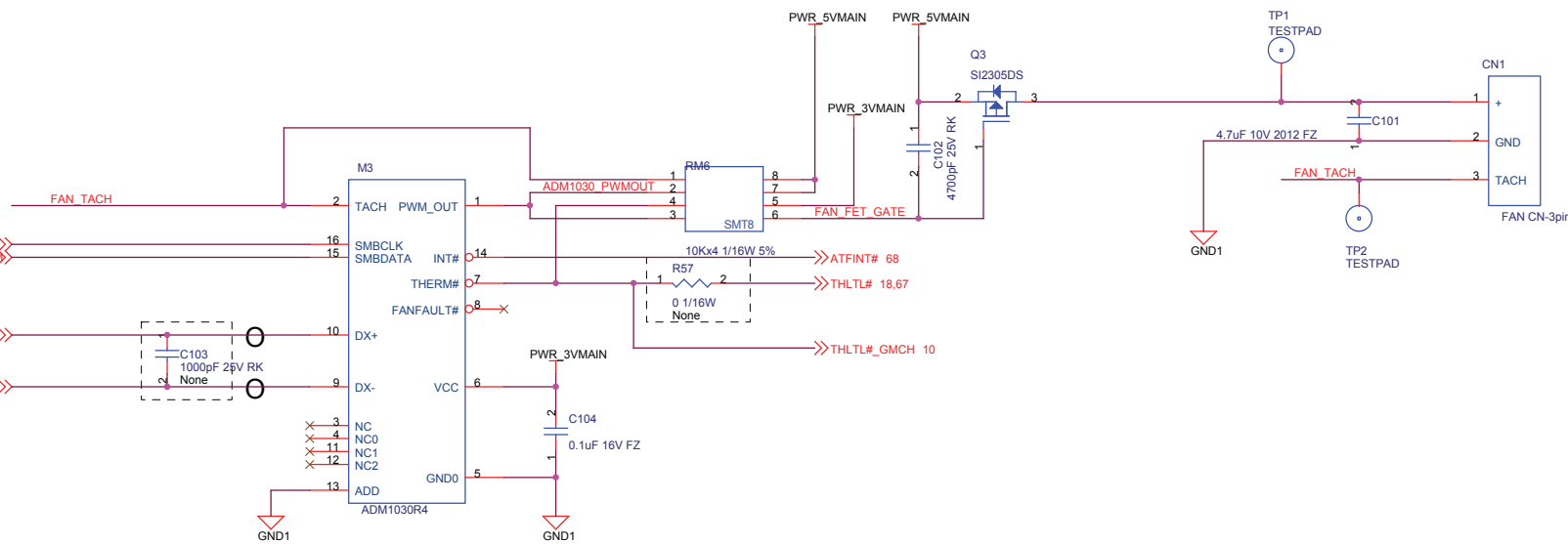
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Rev.	Date	Design	Check	Appr.	Description					Sheet	
Design	02/05/07	Konaka	Check	Fuchida		Appr.	Fukuyo	FUJITSU LTD.			8 / 73

4

3

2

1



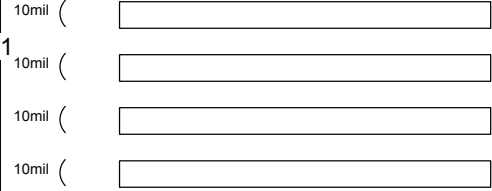
これらの部品はCPUの近くに配置すること。
Place each component near CPU.

CPU_THMDA, CPU_THMDCのパターンが最短になるよう、
ADM1030 (M5) は、CPUの近傍に配置すること。

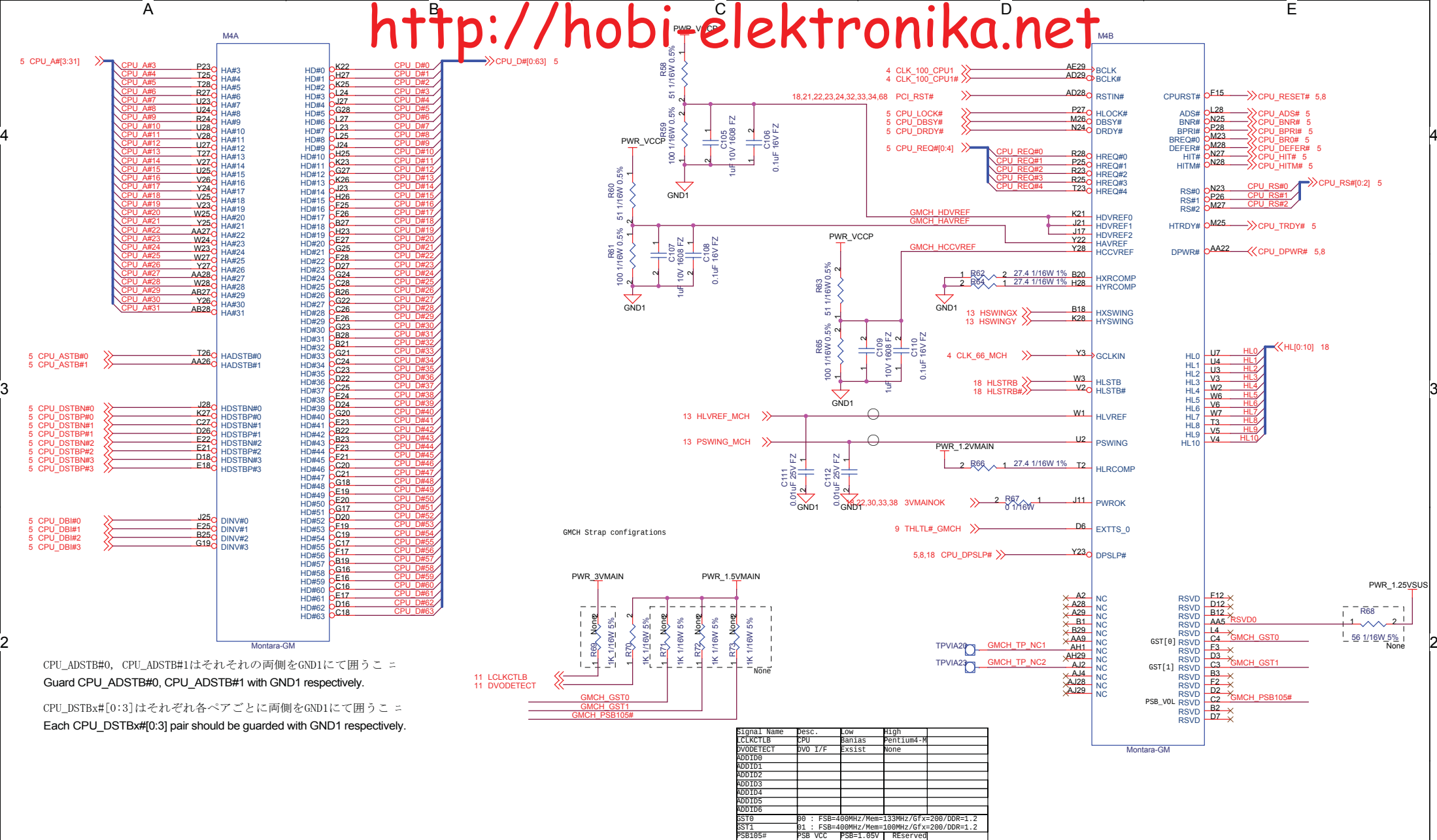
Place ADM1030(M5) near CPU(M3) to control
CPU_THMDA,CPU_THMDC patterns as short
as possible.

CPU_THMDA, CPU_THMDC両端に入っているコンデンサ
C108 (1000pF) は、ADM1030 (M5) の直近に配置すること。
Place and C108(1000pF) nearest ADM1030(M5).

○印の付いた信号線 (CPU_THMDA, CPU_THMDC) は、
GND1で両側をガードすること
(下図参照)
Guard these signals(CPU_THMDA,CPU_THMDC) that marked "O"
at the both sides by GND1 pattern.
(Look at follow figure.)



												TITLE	VB161AX MAIN	
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抵抗R164, R165はGMCH (M78) から0.5inch以内に置き A
15mil幅以上で配線すること。

Place R164,R165 near MCH(M6) (within 0.5 inch).
And the width of these patterns are more than 15
mil.

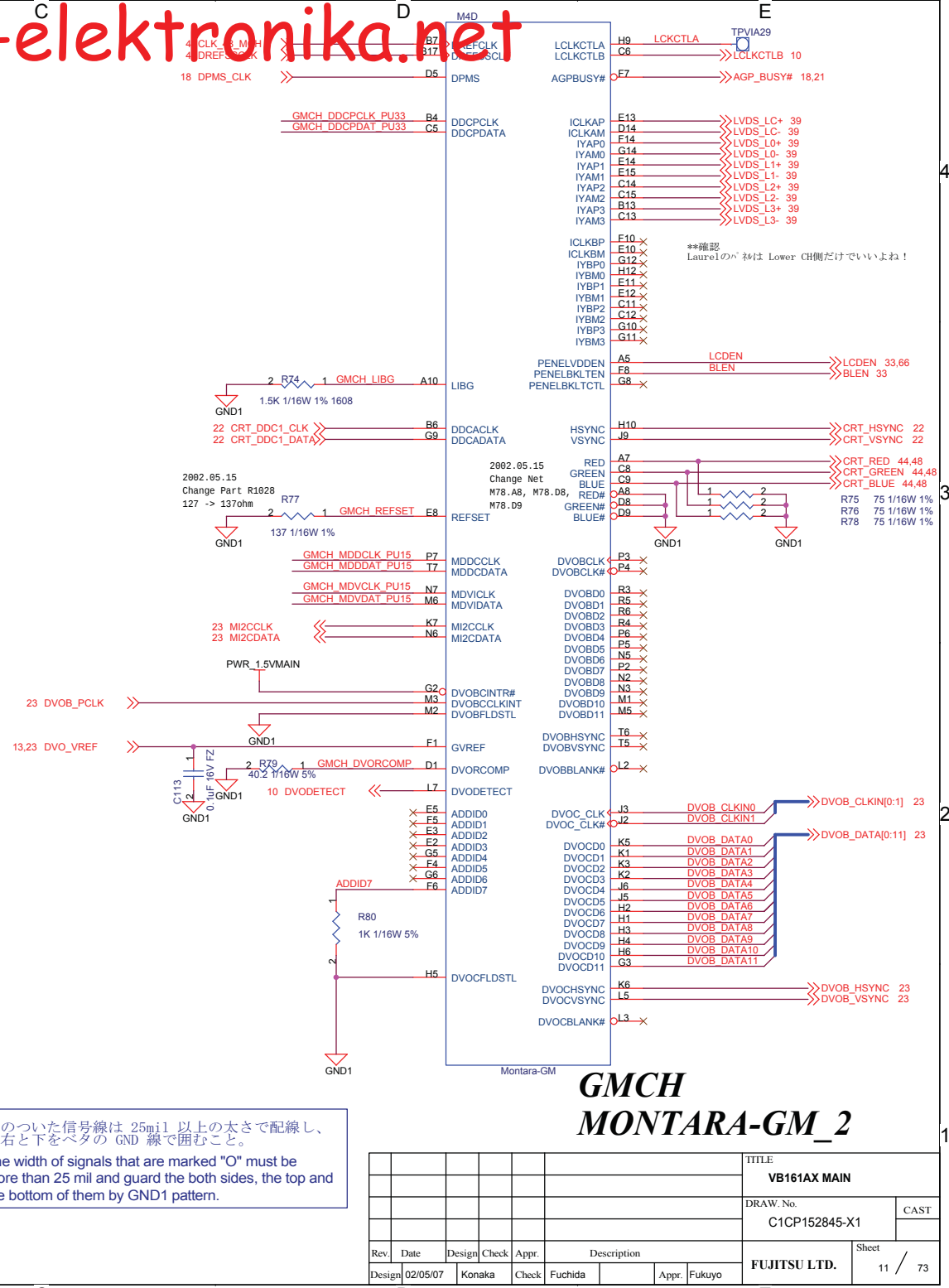
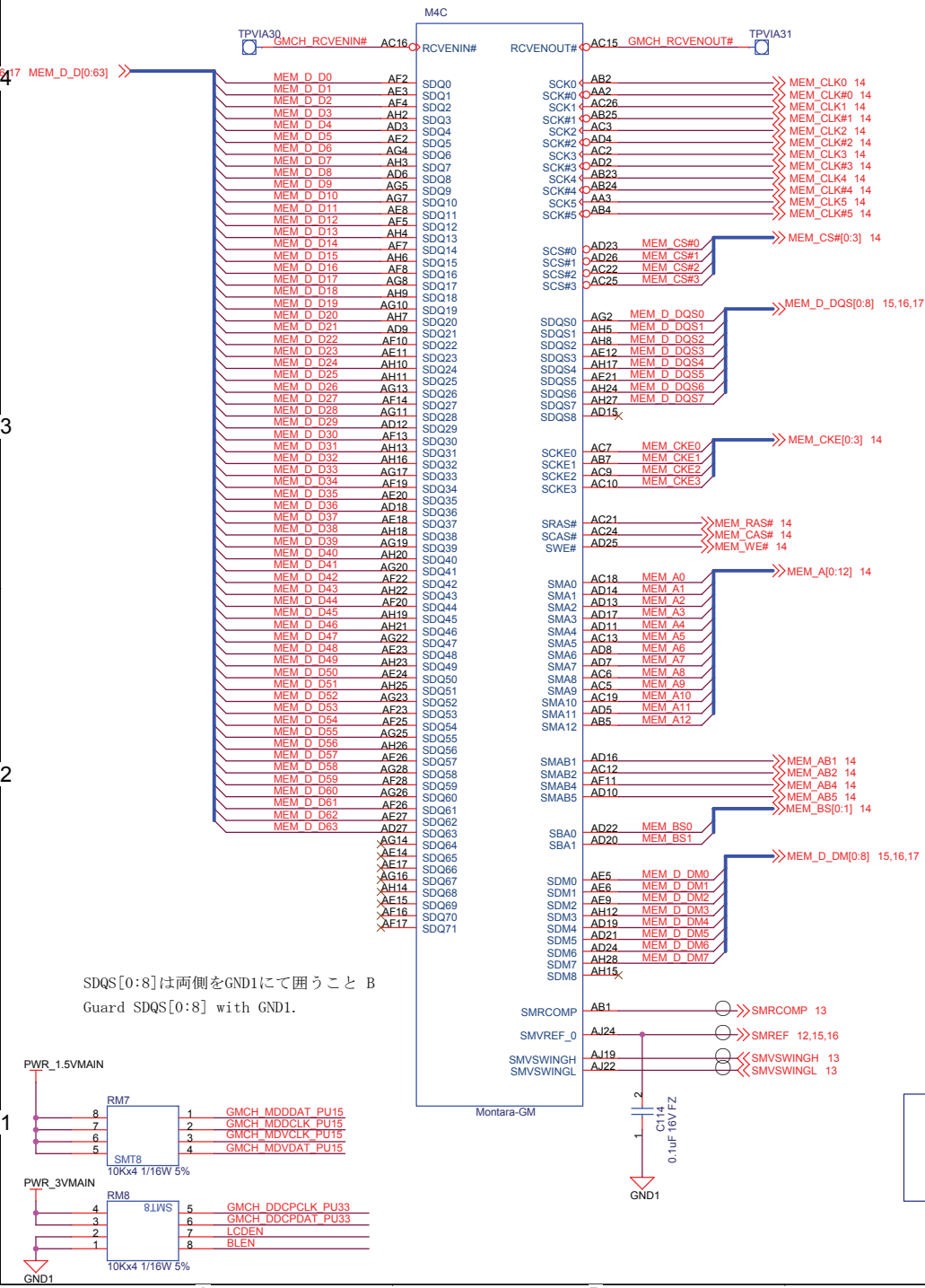
コンデンサC754はGMCH(M78)の近傍に配置すること B

Place C754 near GMCH(M78)

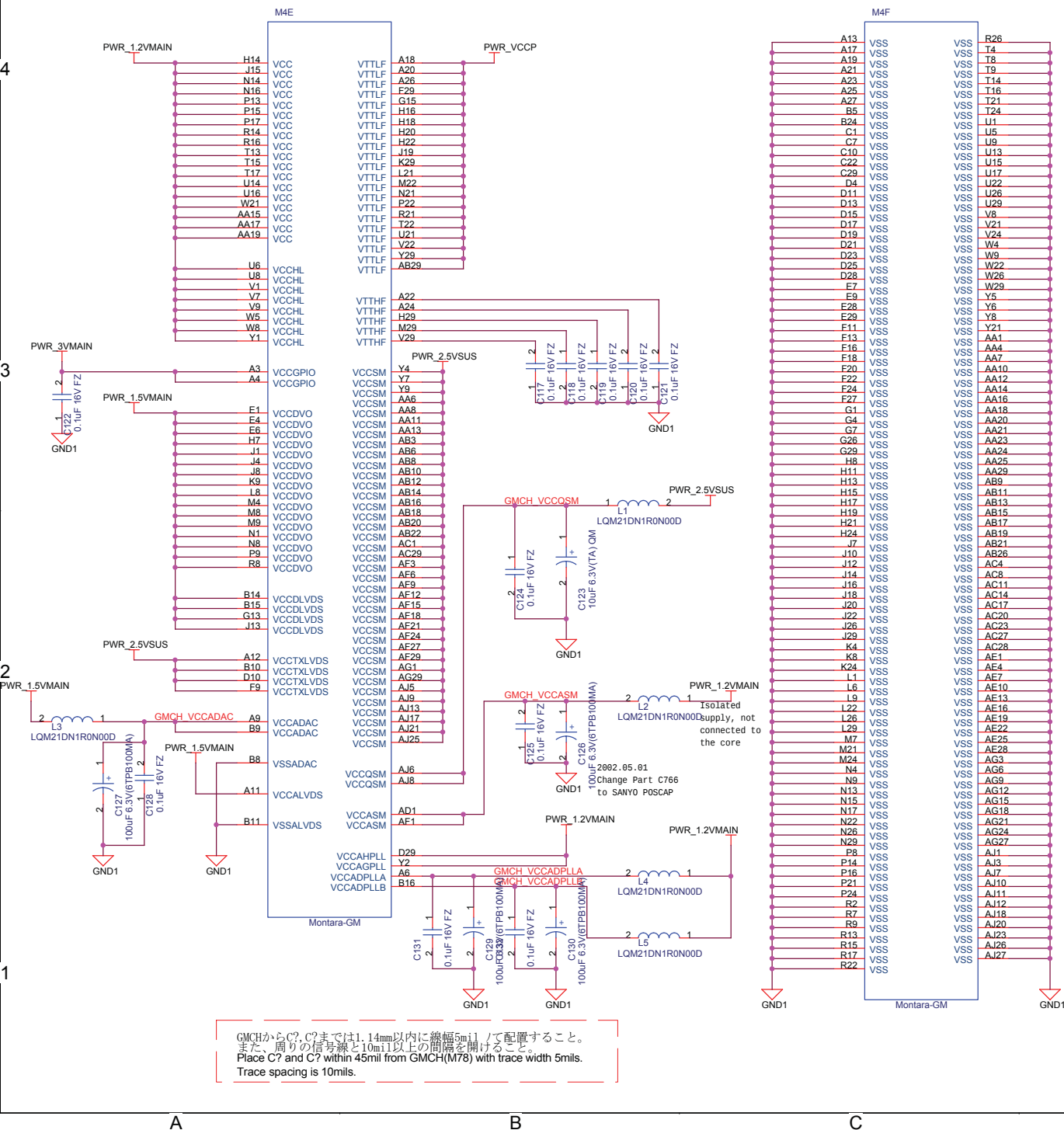
HLSTRB/HLSTRB#ペアは両側をGND1にて囲うこニ

HLSTRB/HLSTRB# pear should be guarded with GND1.

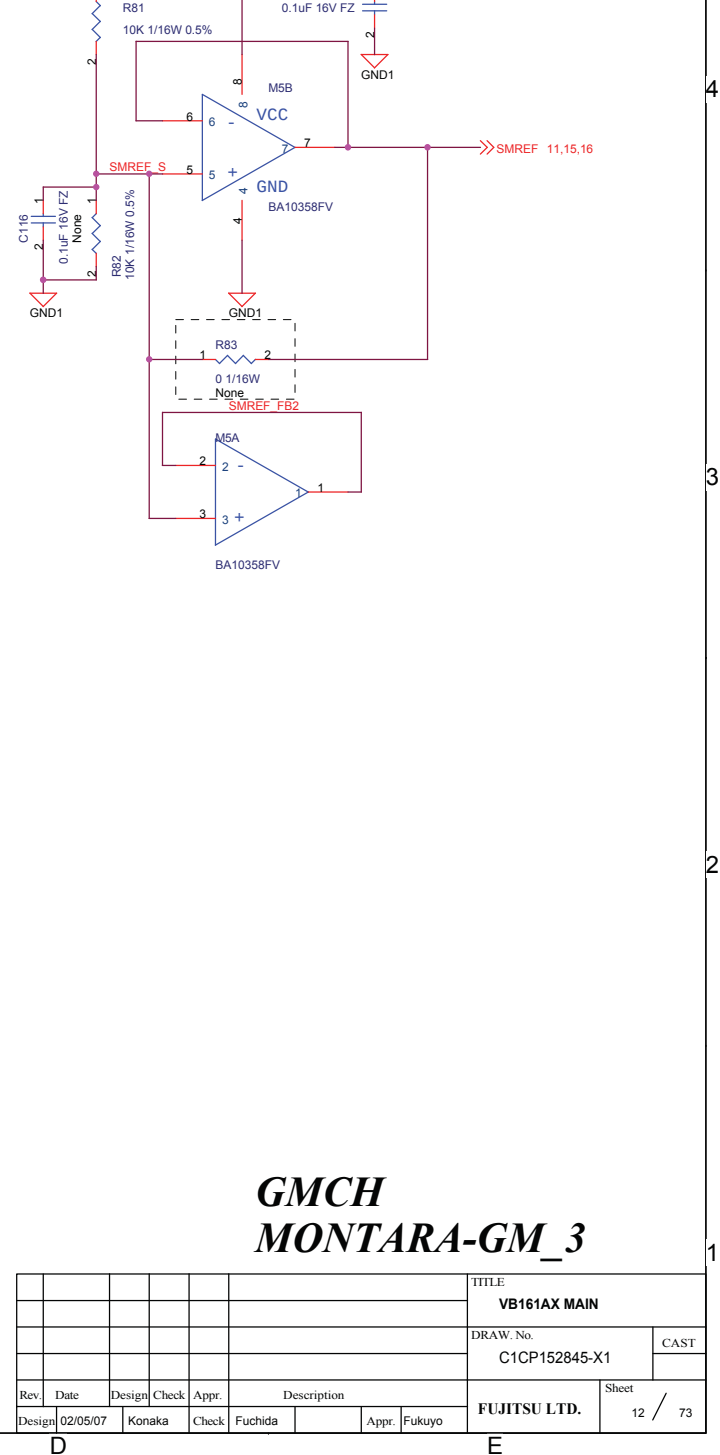
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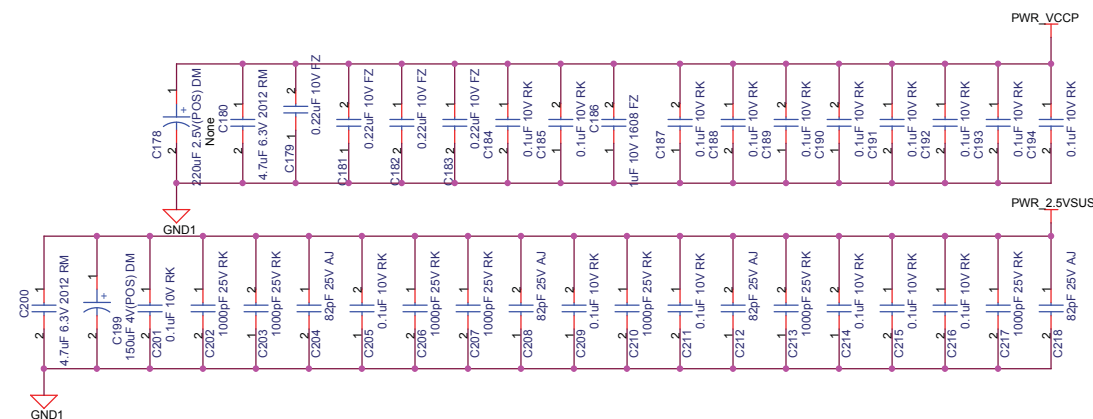
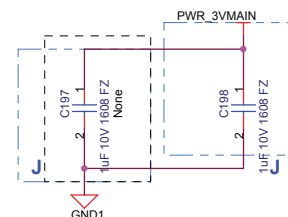
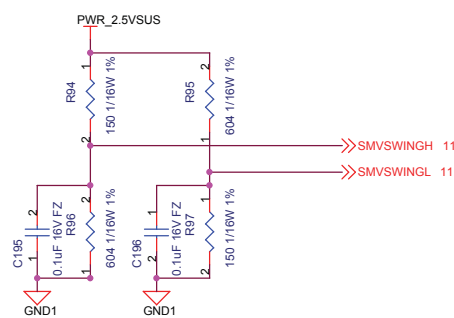
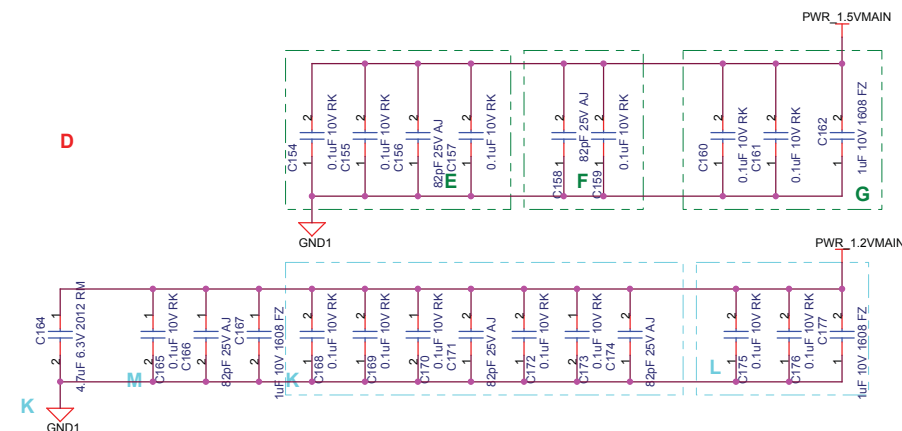
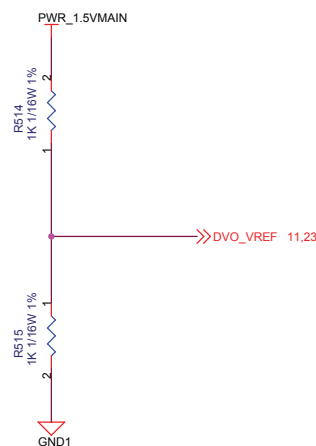
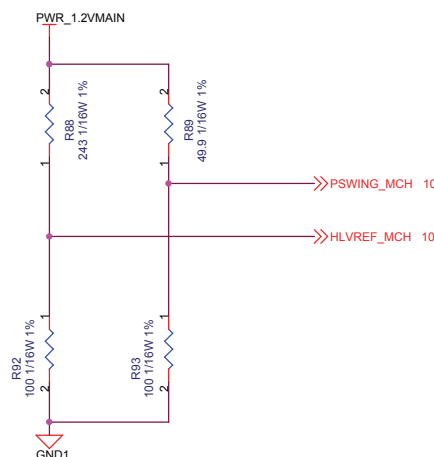
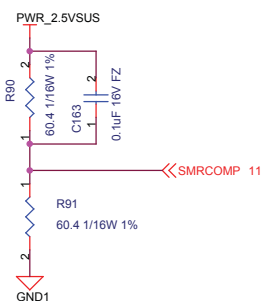
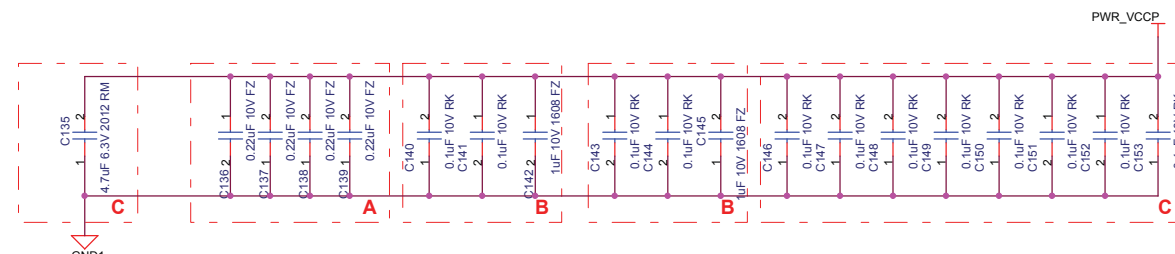
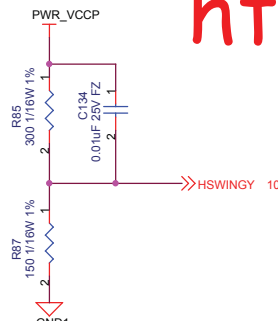
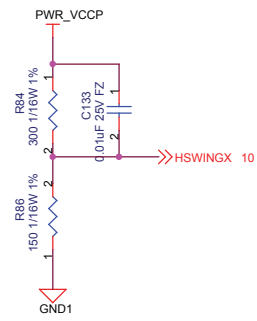


GMCHからC?, C?までは1.14mm以内に線幅5mil / 7で配置すること。
また、周りの信号線と10mil以上の間隔を開けること。
Place C? and C? within 45mil from GMCH(M78) with trace width 5mils.
Trace spacing is 10mils.

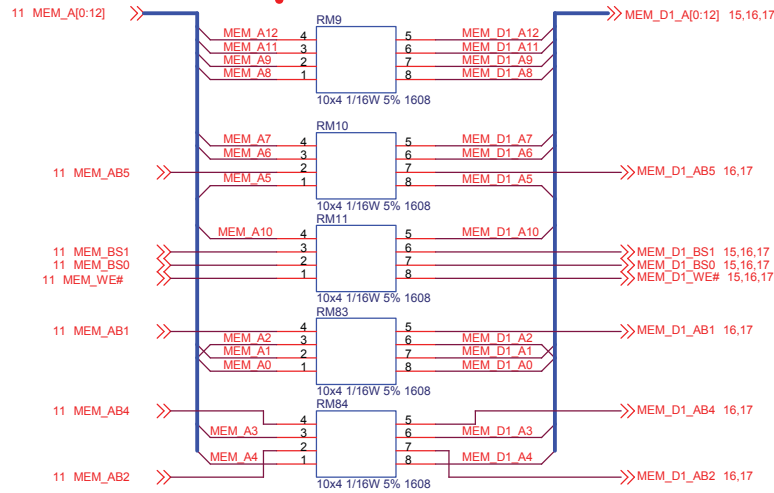


GMCH
MONTARA-GM_3

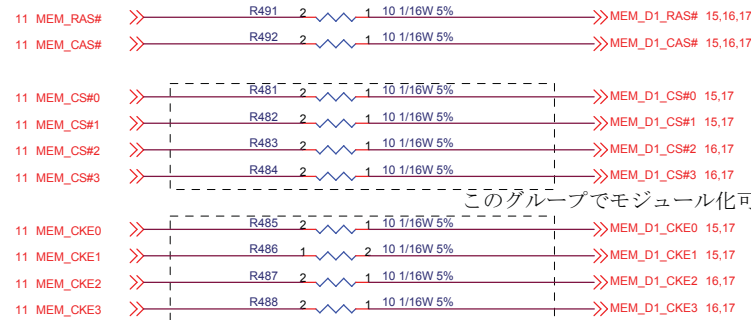
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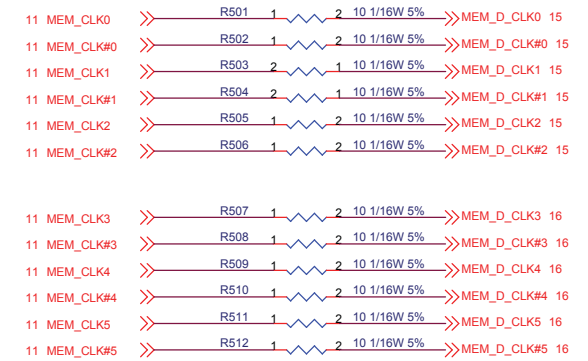


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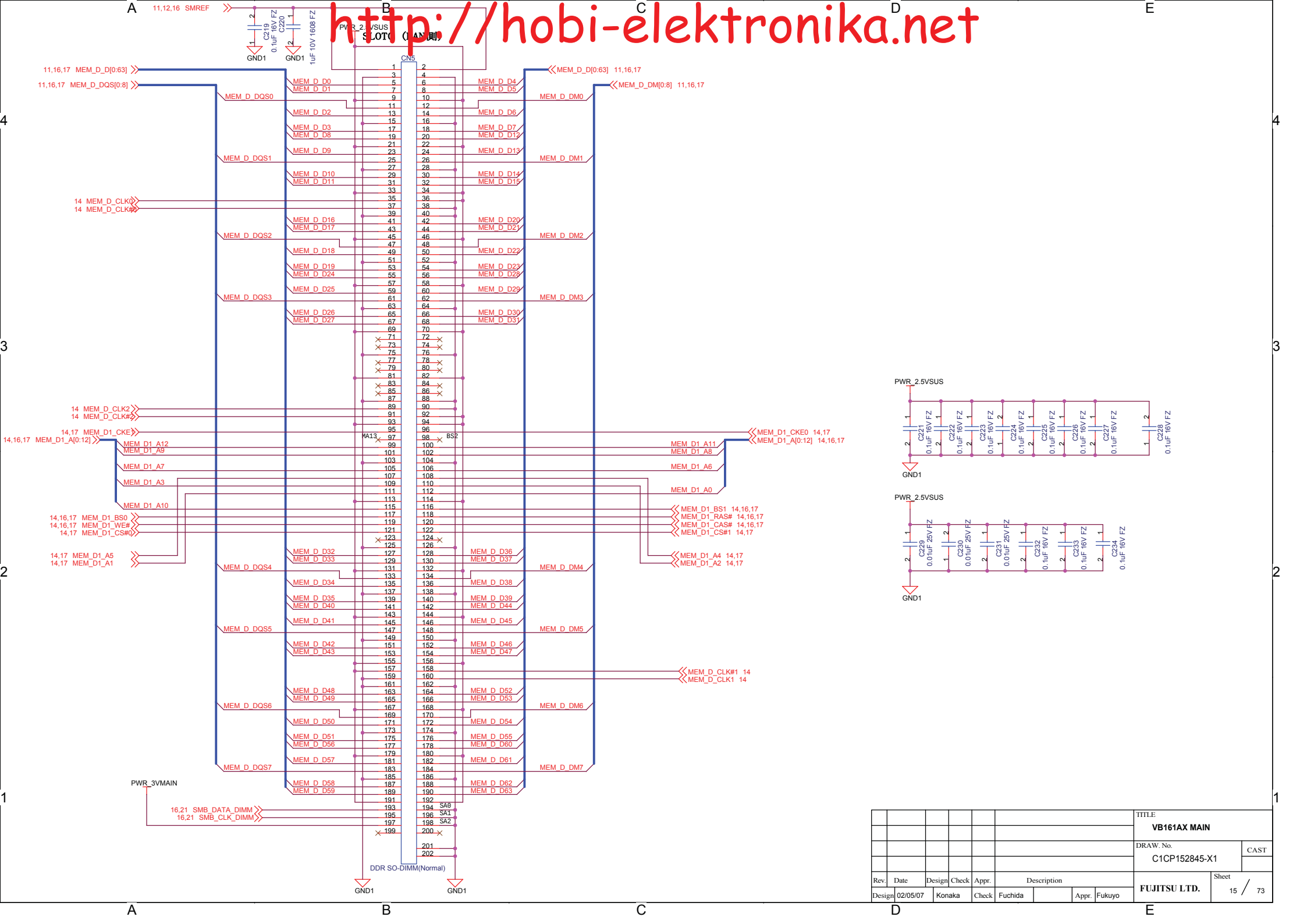


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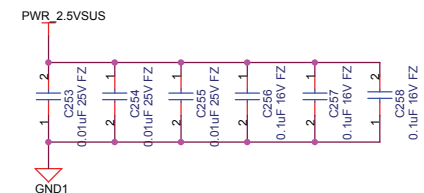
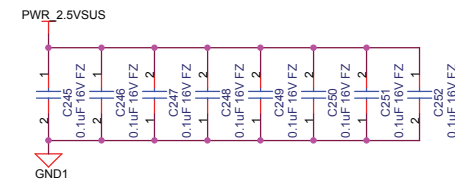
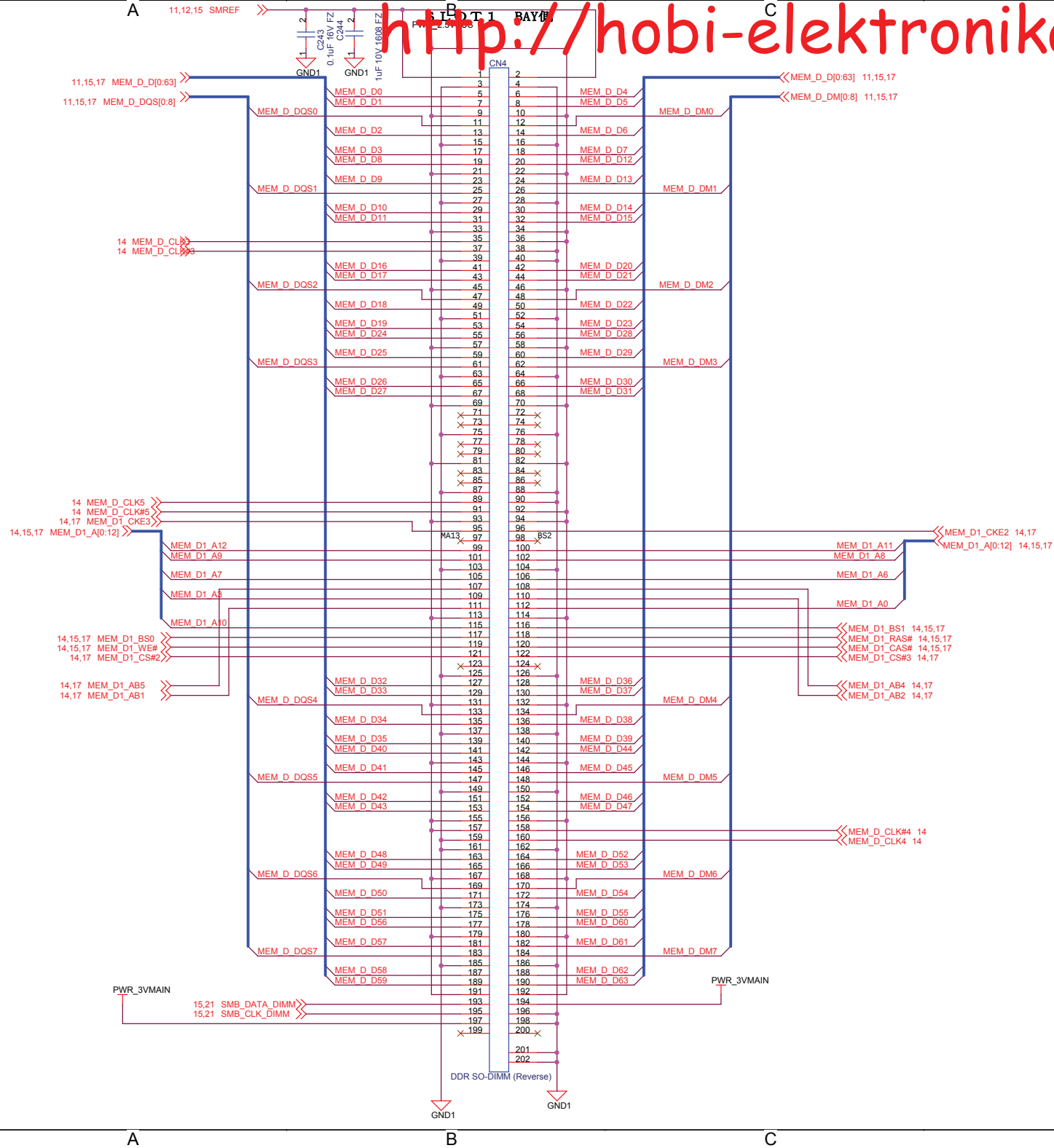
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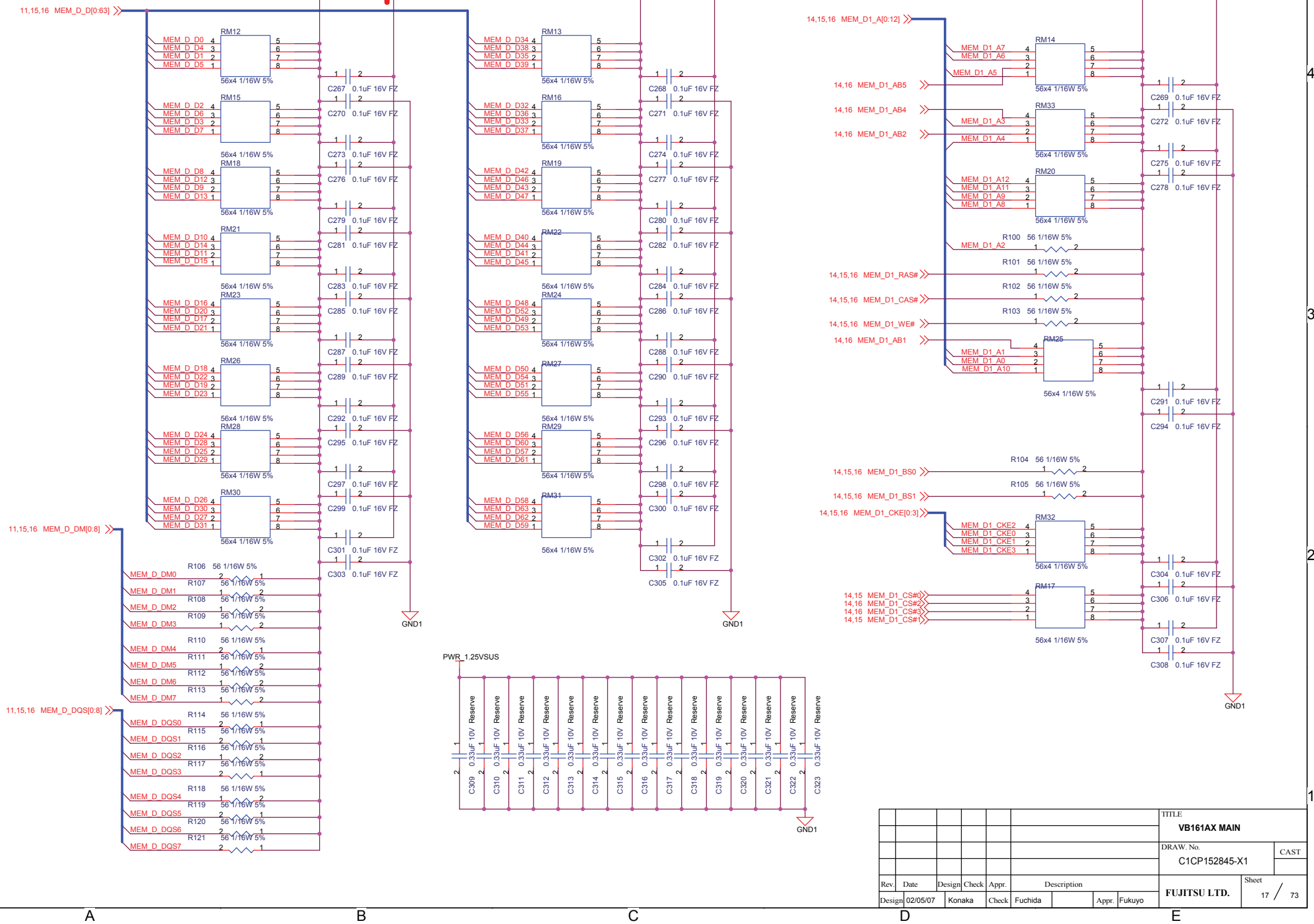
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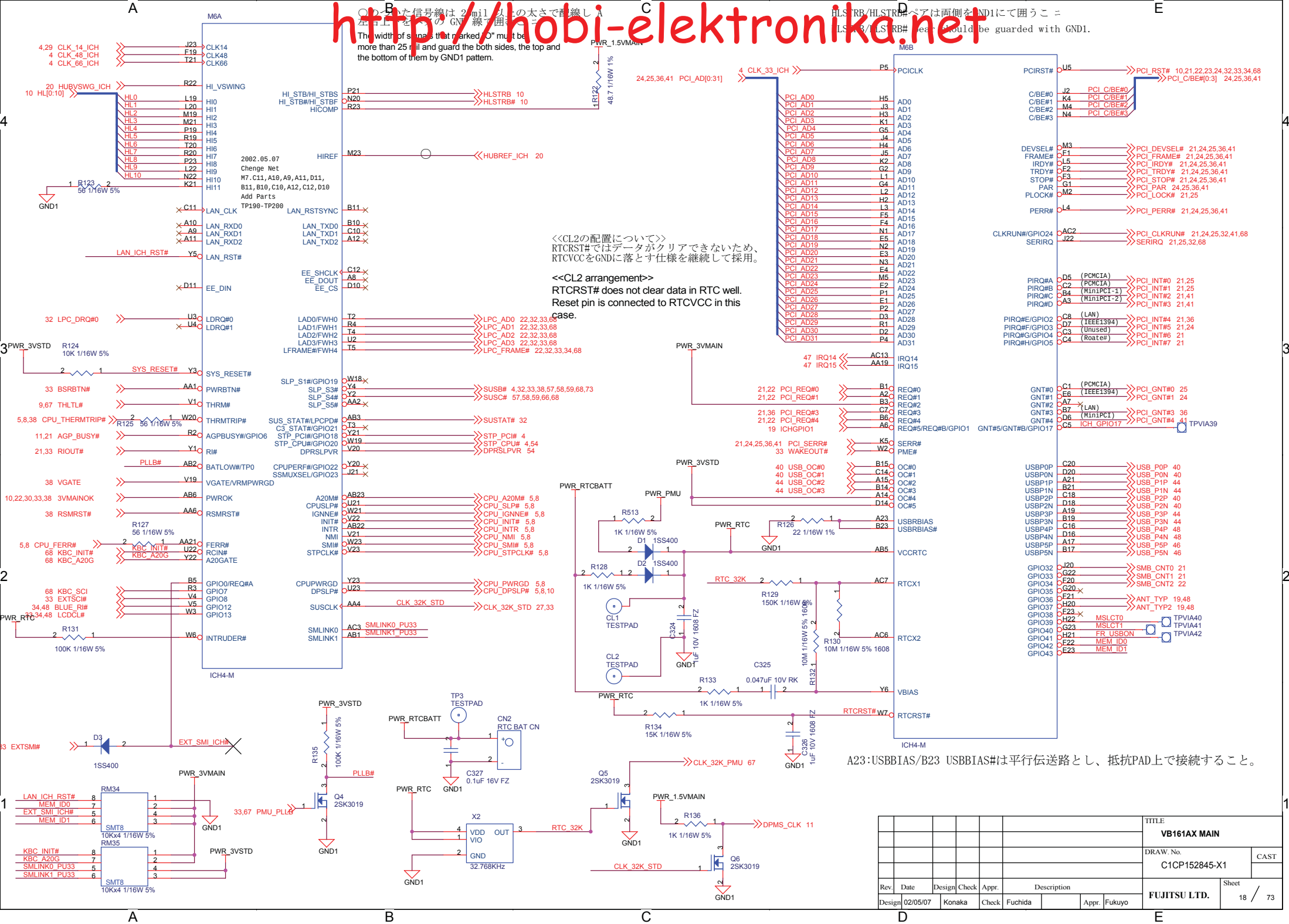


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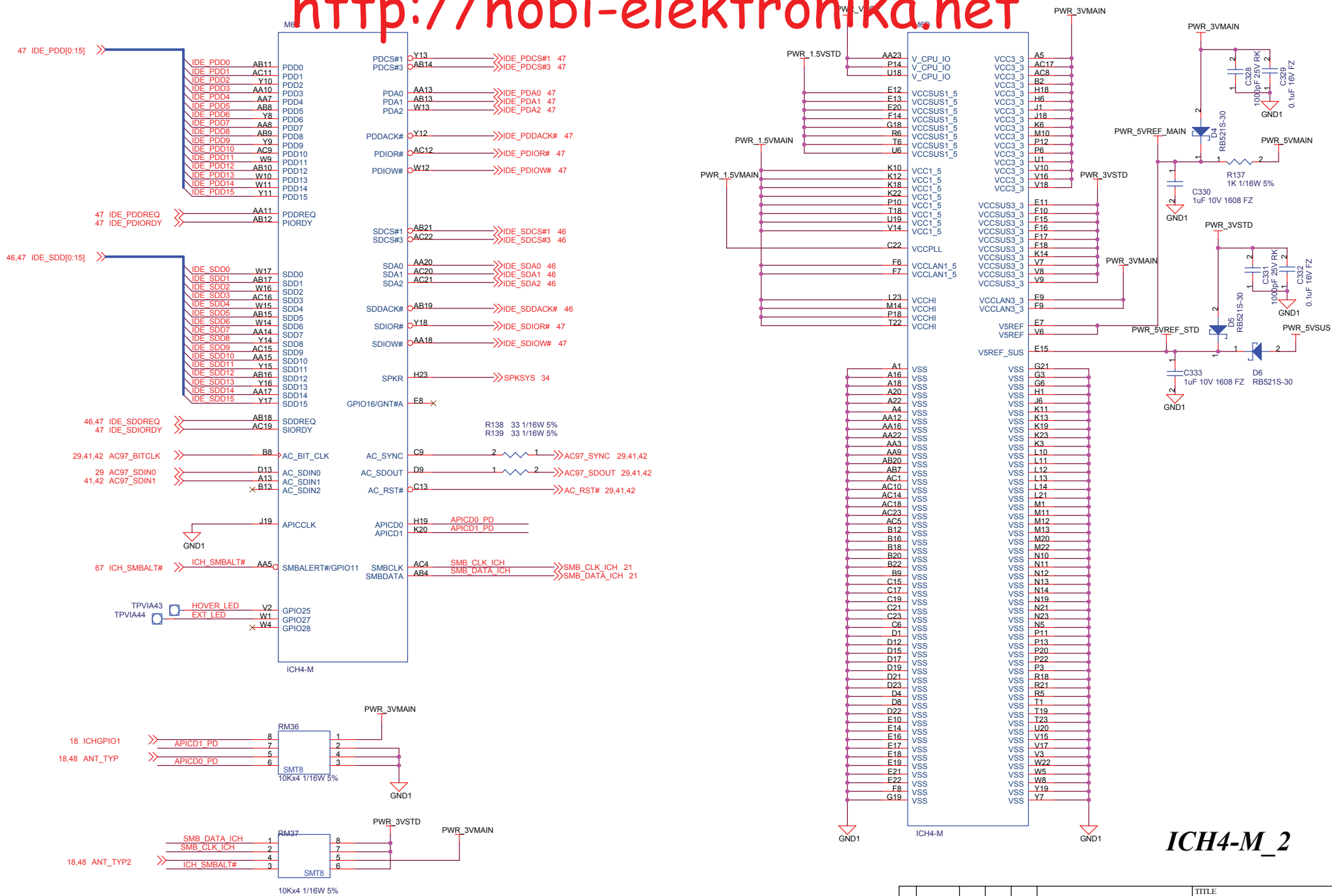


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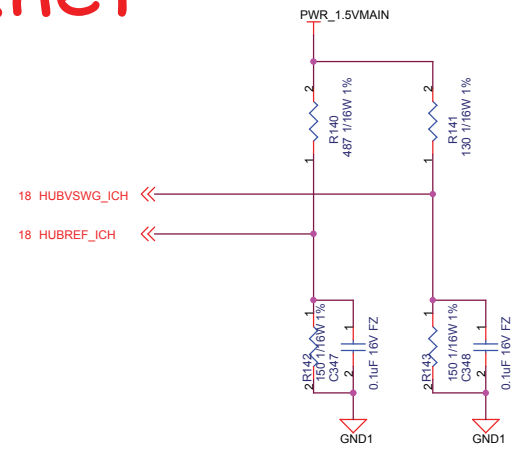
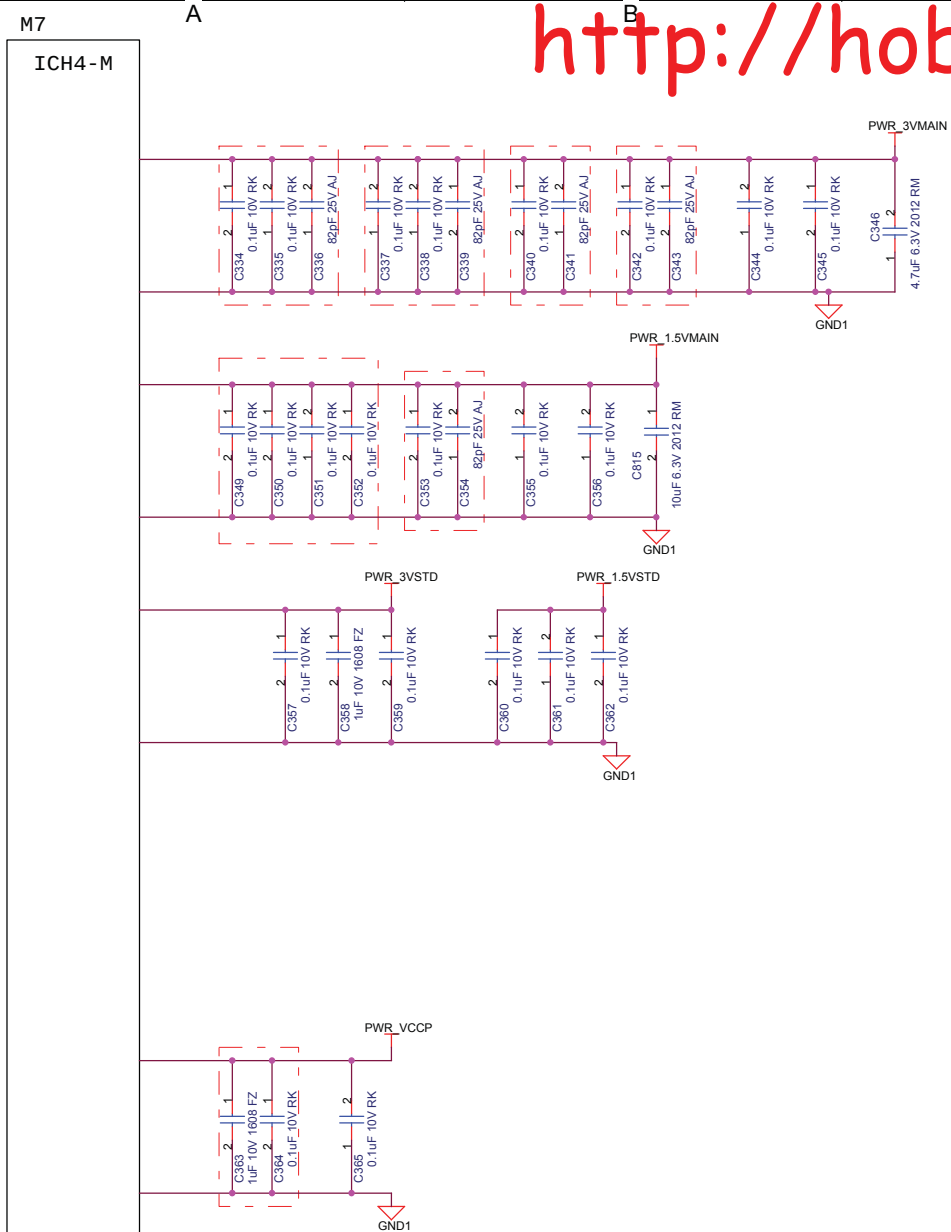


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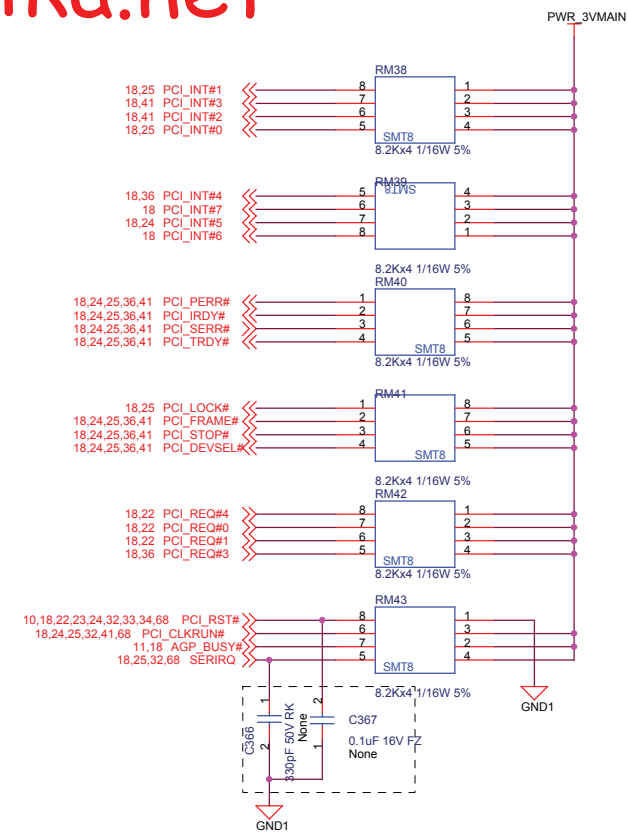
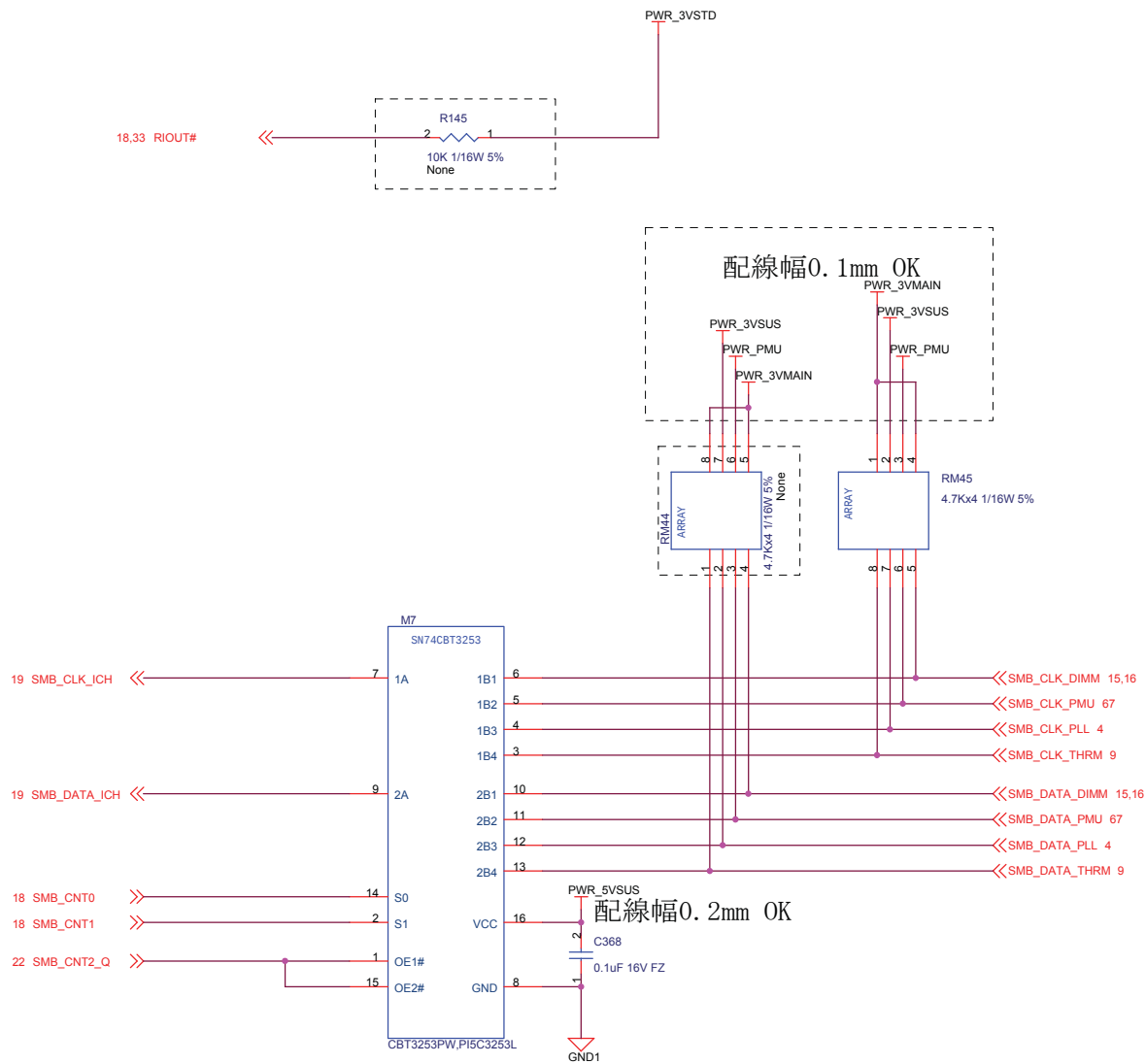


ICH4-M_2

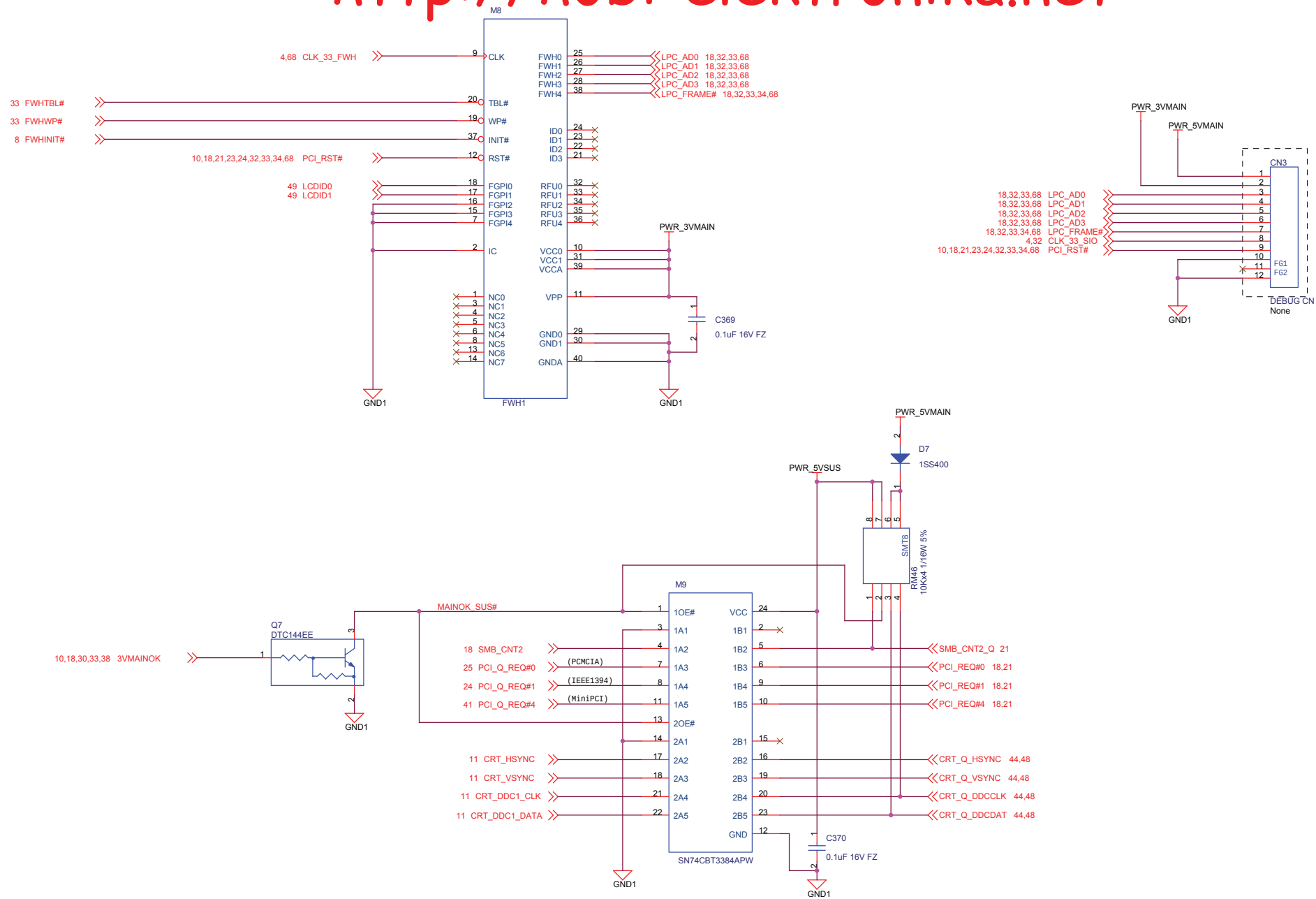
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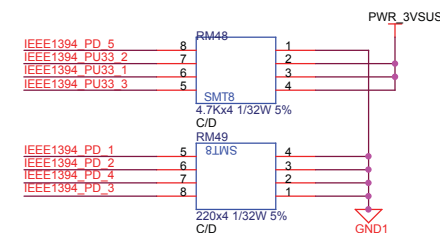
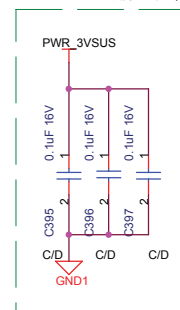
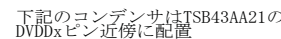
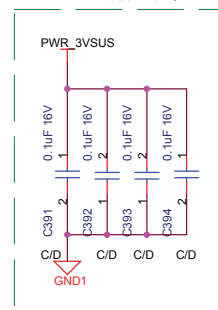
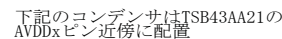
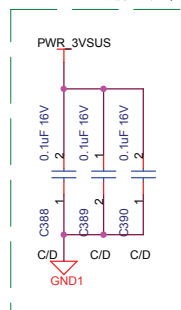
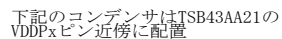
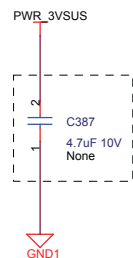
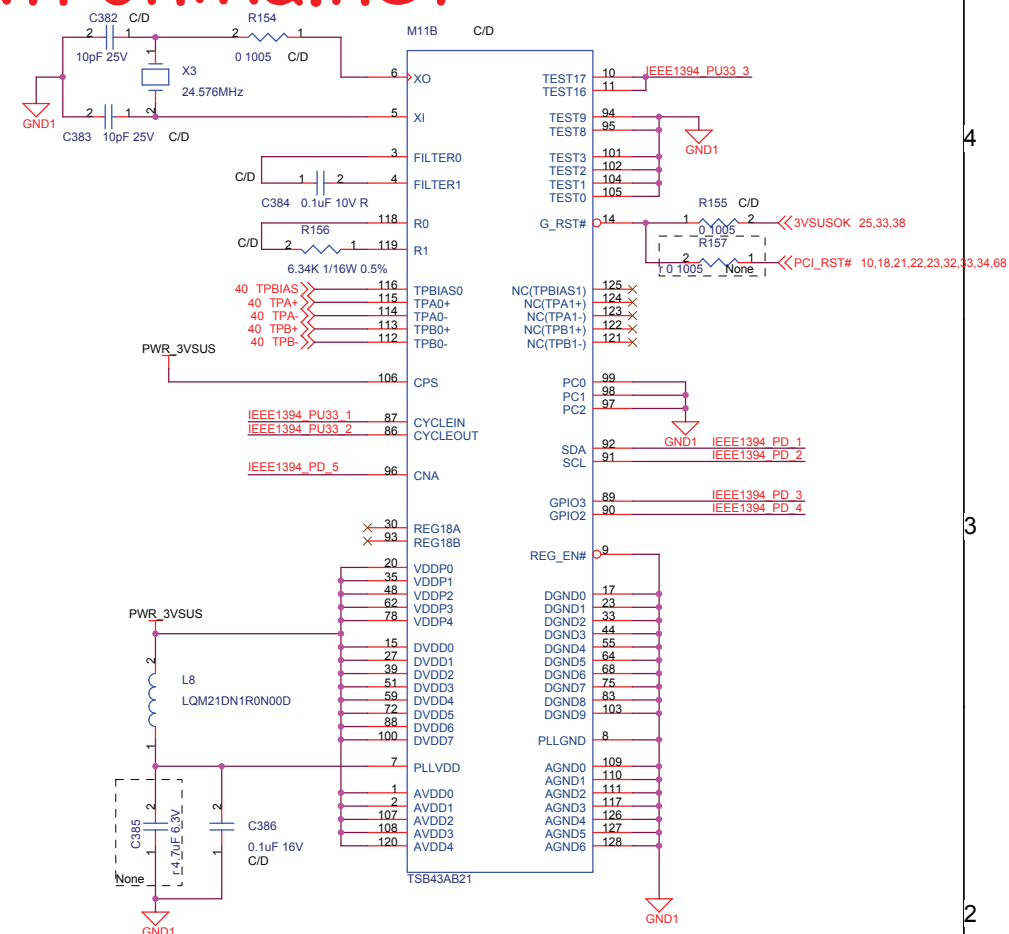
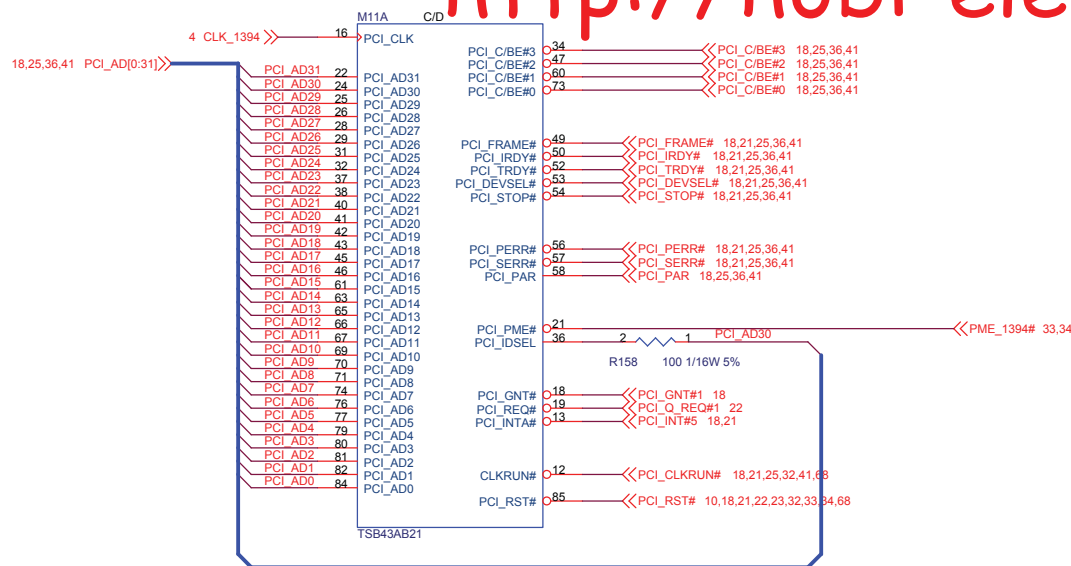
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						DRAW. No.			CAST
						C1CP152845-X1			
Rev.	Date	Design	Check	Appr.	Description				
Design	02/05/07	Konaka	Check	Fuchida		Appr.	Fukuyo	FUJITSU LTD.	Sheet 21 / 73



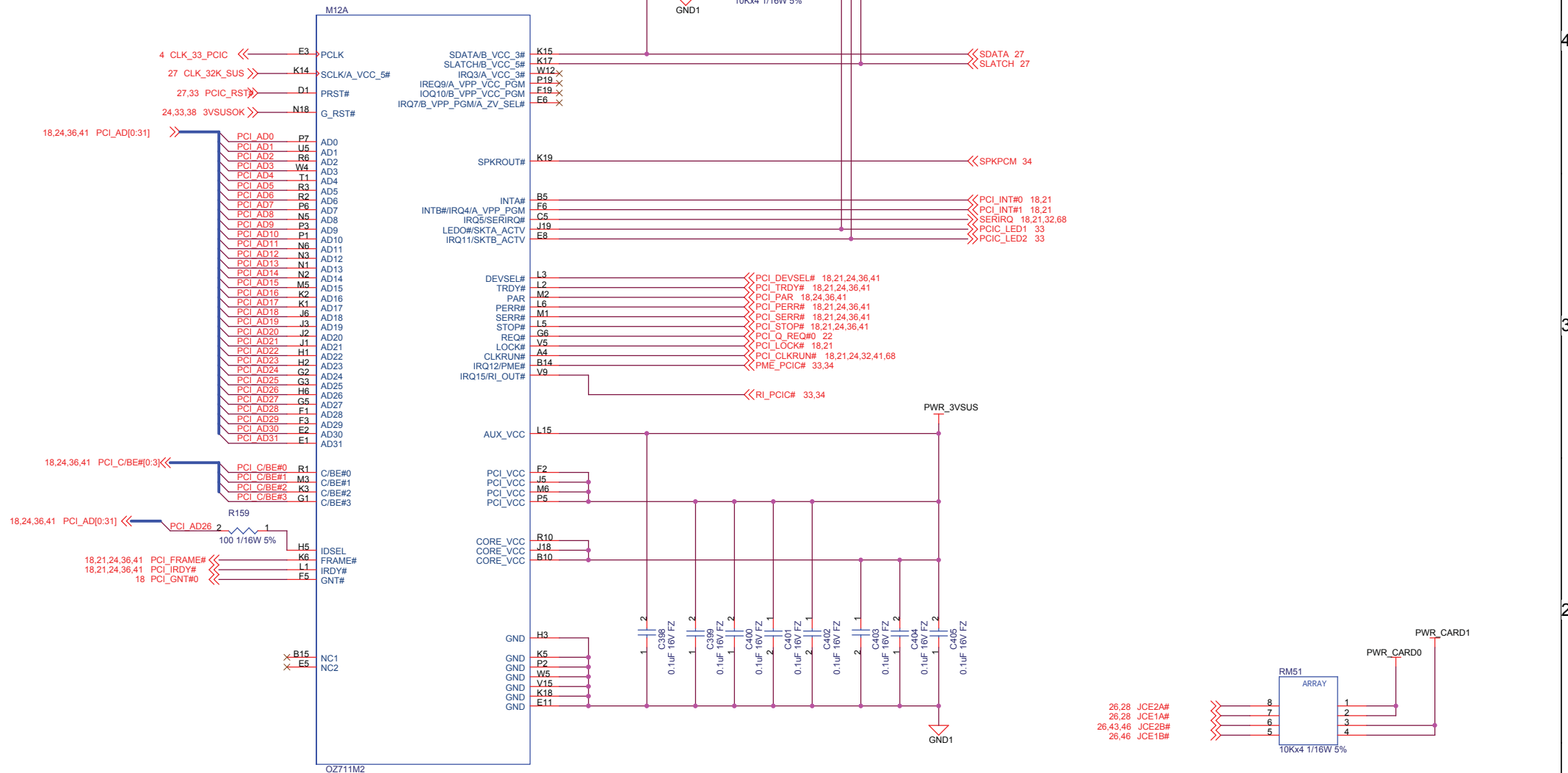
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						C1CP152845-X1			
Rev.	Date	Design	Check	Appr.	Description				
Design	02/05/07	Konaka	Check	Fuchida		Appr.	Fukuyo	FUJITSU LTD.	Sheet 22 / 73



						TITLE	
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						DRAW. No.	C/AST
						C1CP152845-X1	
Rev.	Date	Design	Check	Appr.	Description		Sheet
Design	02/05/07	Konaka	Check	Fuchida		Appr. Fukuyo	FUJITSU LTD. 23 / 73

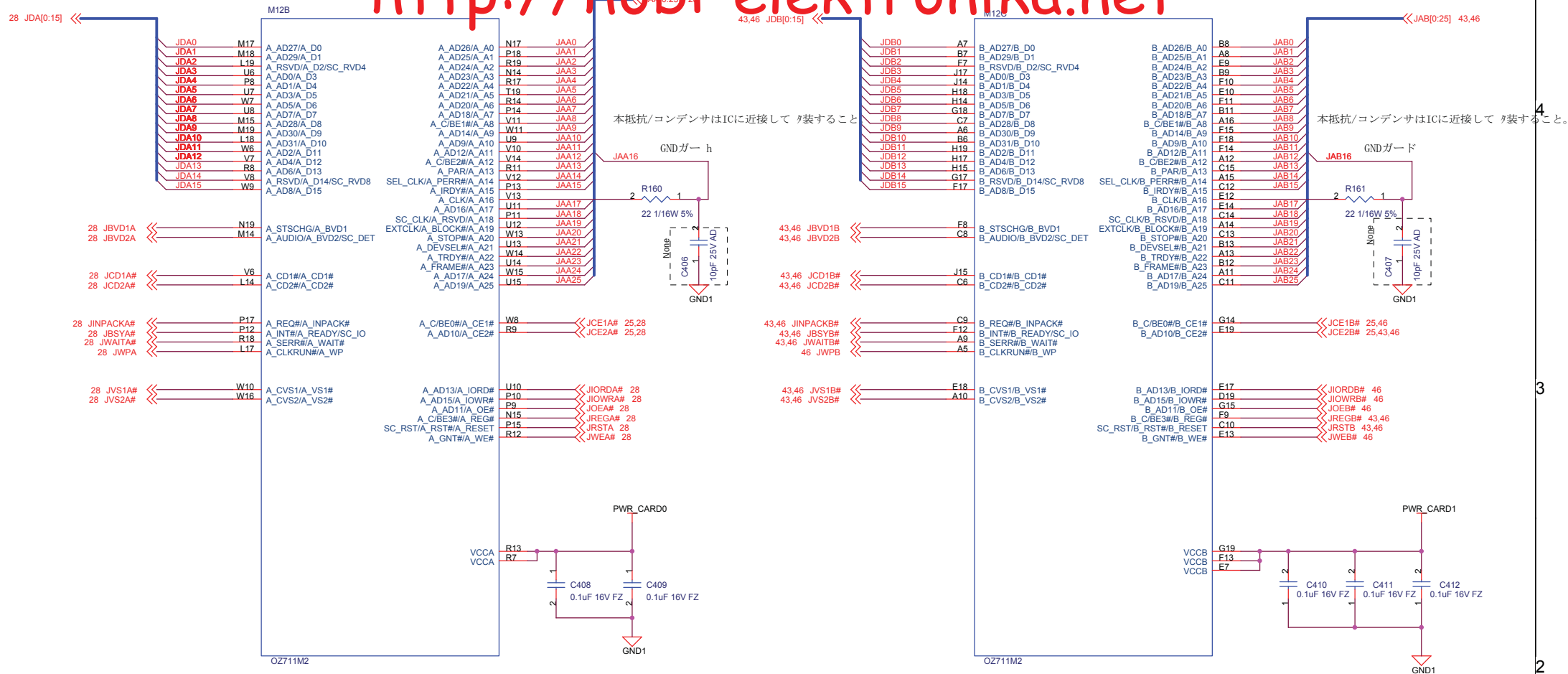
**IEEE1394**

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Rev.	Date	Design	Check	Appr.	Description					Sheet	
Design	02/05/07	Konaka	Check	Fuchida			Appr.	Fukuyo	FUJITSU LTD.		24 / 73



PCIC-1[02Micro-Tarzan]

												TITLE	VB161AX MAIN	
												DRAW. No.	C1CP152845-X1	CAST
Rev.	Date	Design	Check	Appr.	Description							FUJITSU LTD.		Sheet
Design	02/05/07	Konaka	Check	Fuchida								Appr.	Fukuyo	25 / 73

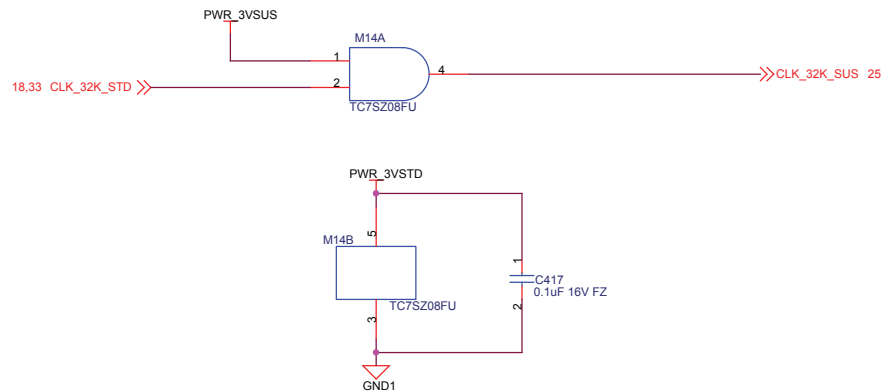
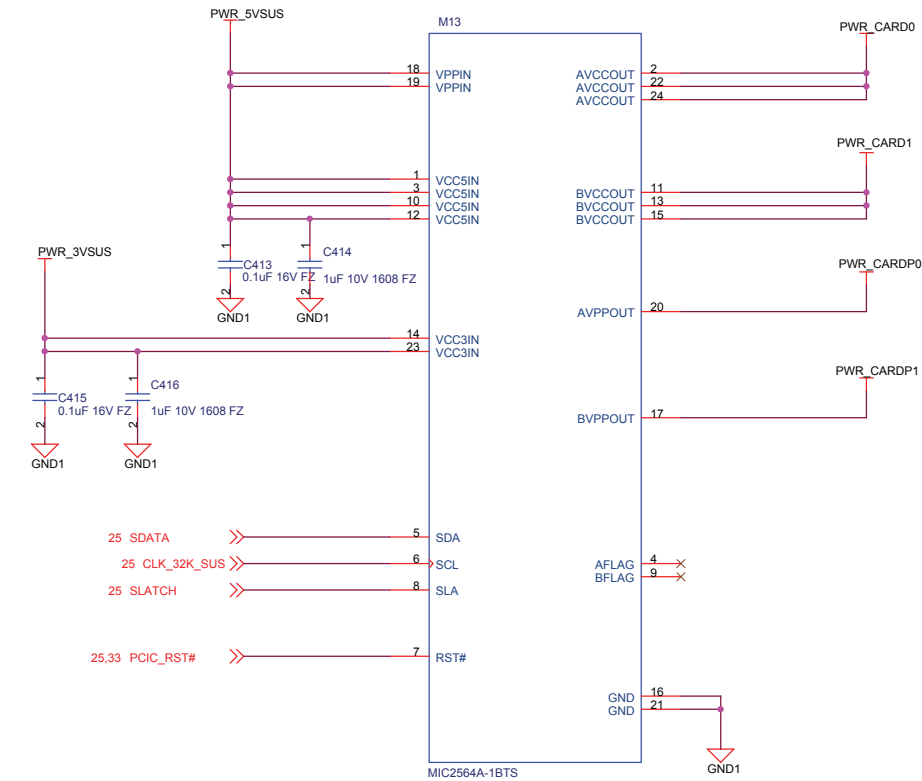


【注意 z
JAA16, JAB16はCardBus時クロック信号になるのでGND1にてガードを行うこと。



PCIC-2[02Micro-Tarzan]

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									VB161AX MAIN	
									DRAW. No.	CAST
									C1CP152845-X1	
Rev.	Date	Design	Check	Appr.	Description					
Design	02/05/07	Konaka	Check	Fuchida			Appr.	Fukuyo	FUJITSU LTD.	Sheet 26 / 73



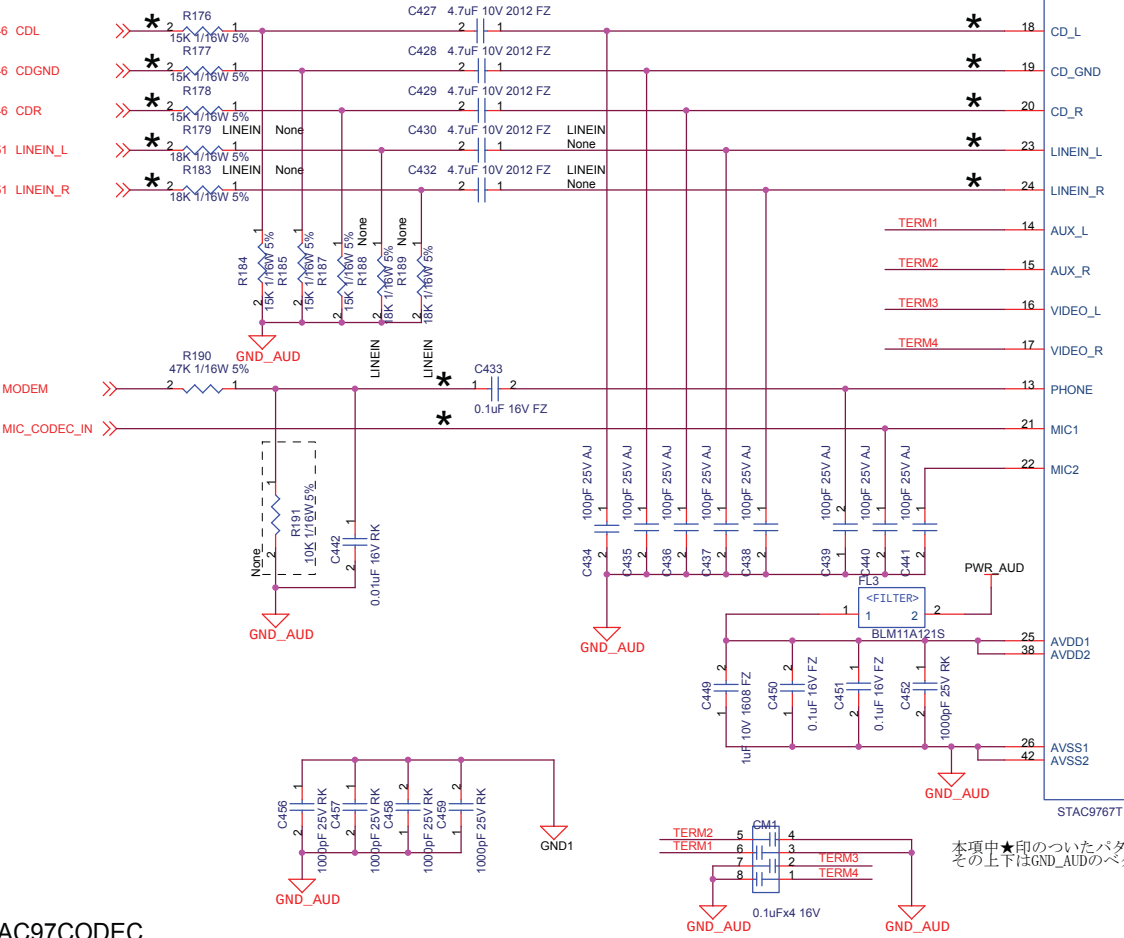
PCIC POW

												TITLE	VB161AX MAIN	
												DRAW. No.	C1CP152845-X1	CAST
Rev.	Date	Design	Check	Appr.	Description							FUJITSU LTD.		Sheet
Design	02/05/07	Konaka	Check	Fuchida								Appr.	Fukuyo	27 / 73

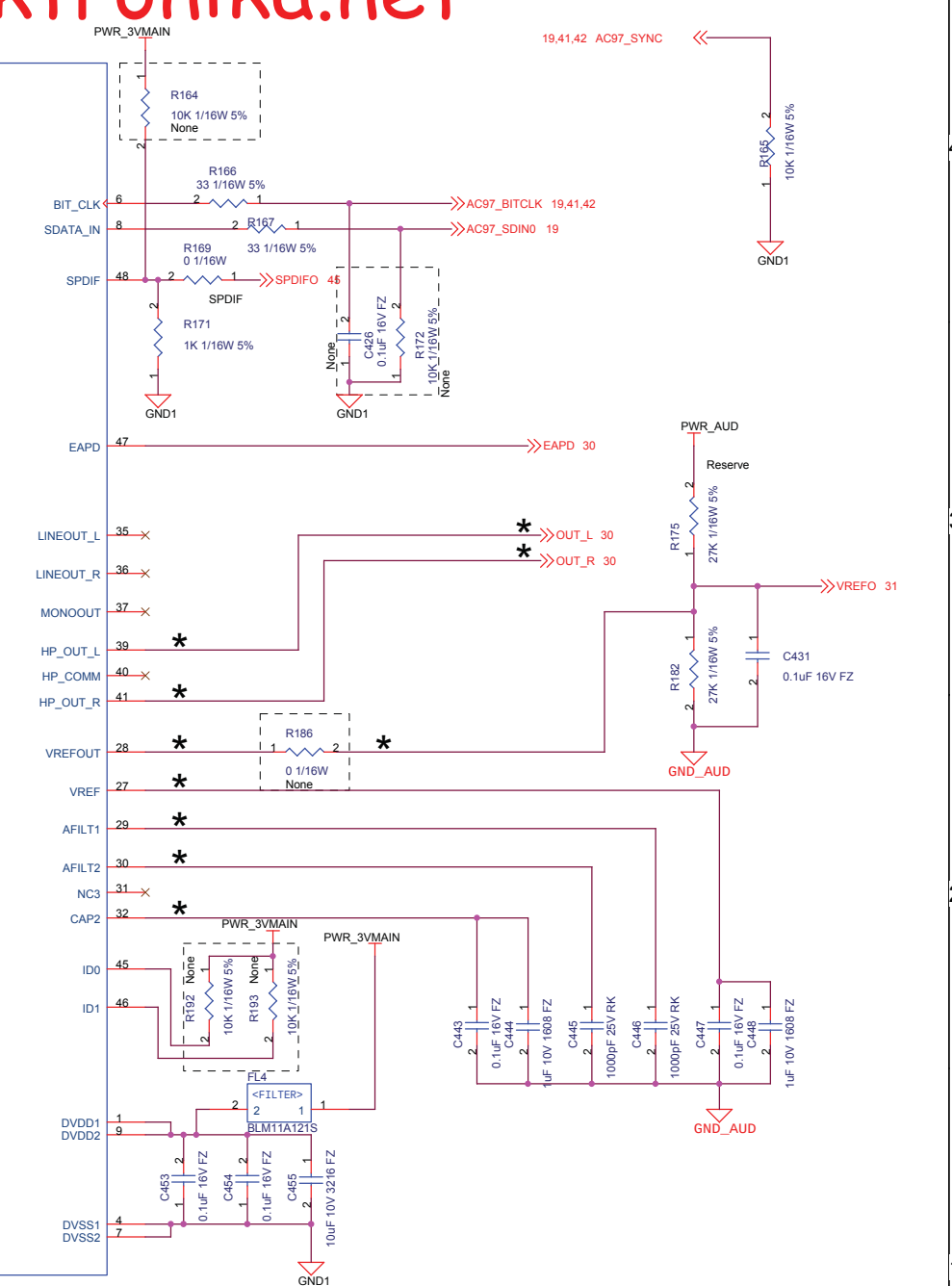
全項AUDIO AREA

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注) CDL, CDRは、基板端面より、CDGND, CDL, CDGND, CDR, CDGND順にガードして布線し、その上下層はGND_AUDにト
CDL, CDR, CDGNDをカバーする幅にて布線必ず実施のこと B

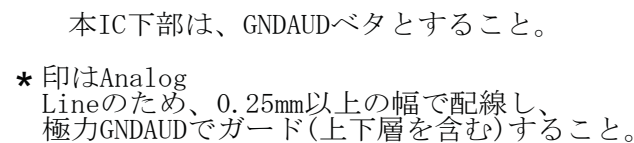


AC97CODEC

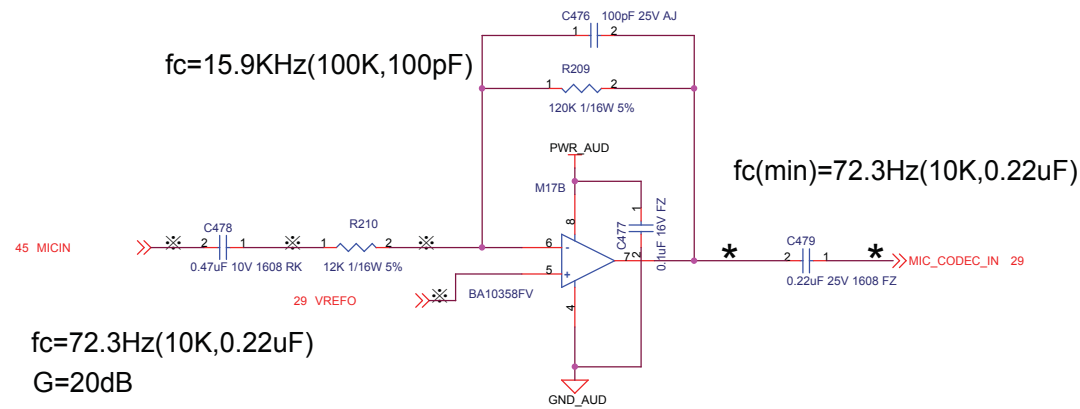


本項中★印のついたパターンは、GND_AUDでガードし、その上下はGND_AUDのベタパターンで覆うこと。

						TITLE	
						VB161AX MAIN	
						DRAW. No.	CAST
						C1CP152845-X1	
Rev.	Date	Design	Check	Appr.	Description	FUJITSU LTD.	
Design	02/05/07	Konaka	Check	Fuchida			
						Sheet	73
						29	



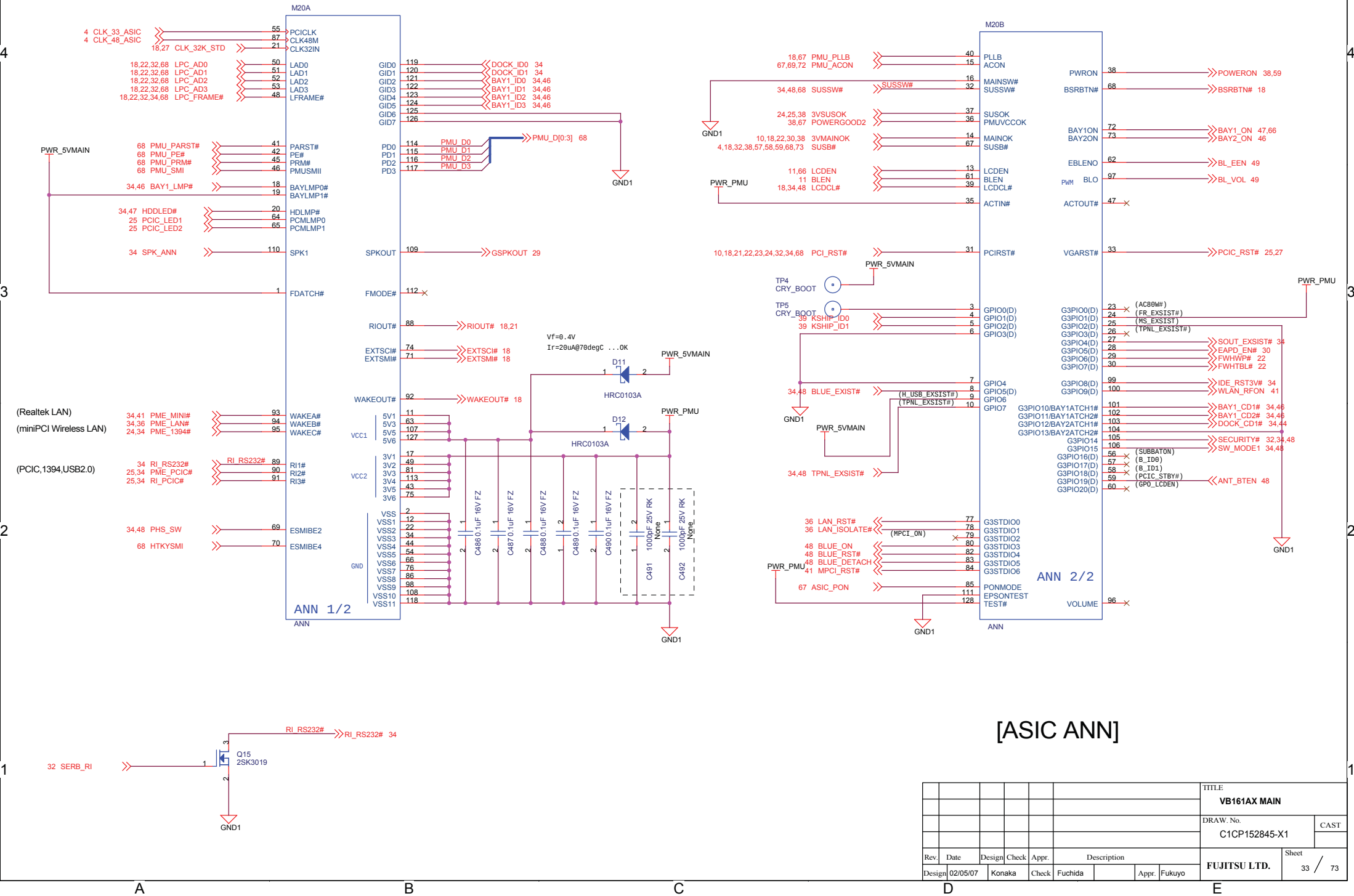
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Rev.	Date	Design	Check	Appr.	Description				Sheet FUJITSU LTD.	30 / 73
Design	02/05/07	Konaka	Check	Fuchida		Appr.	Fukuyo			

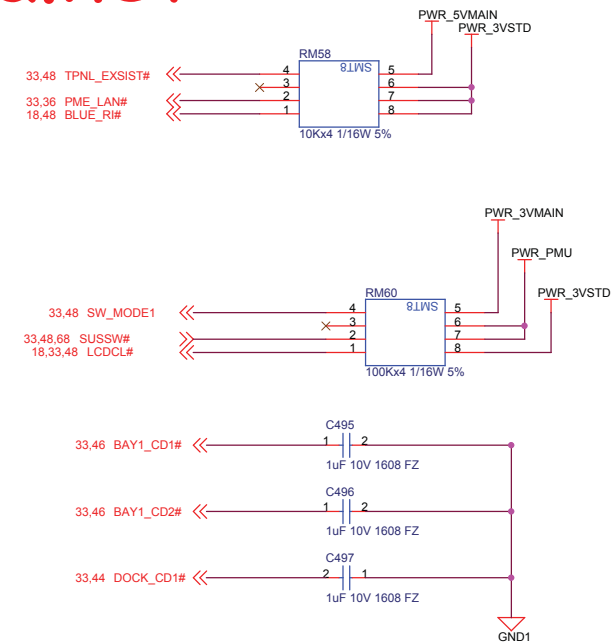
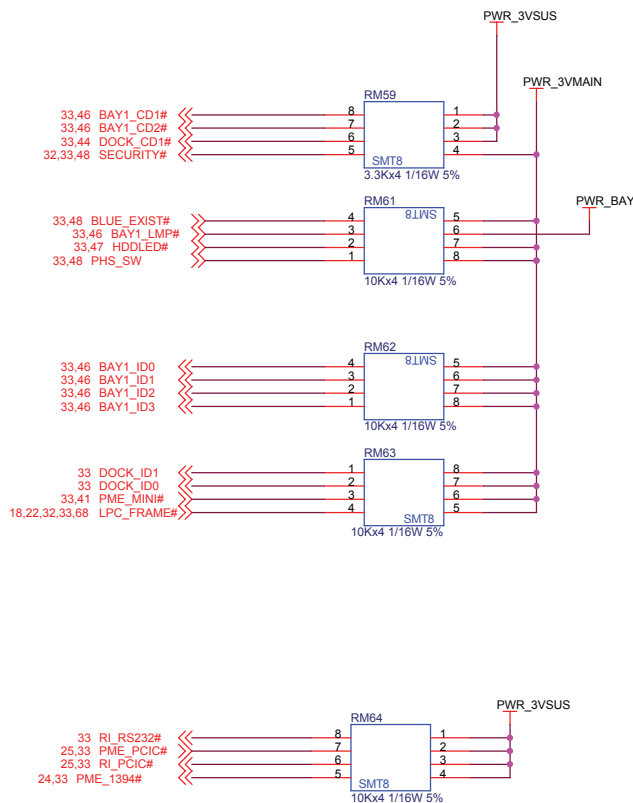
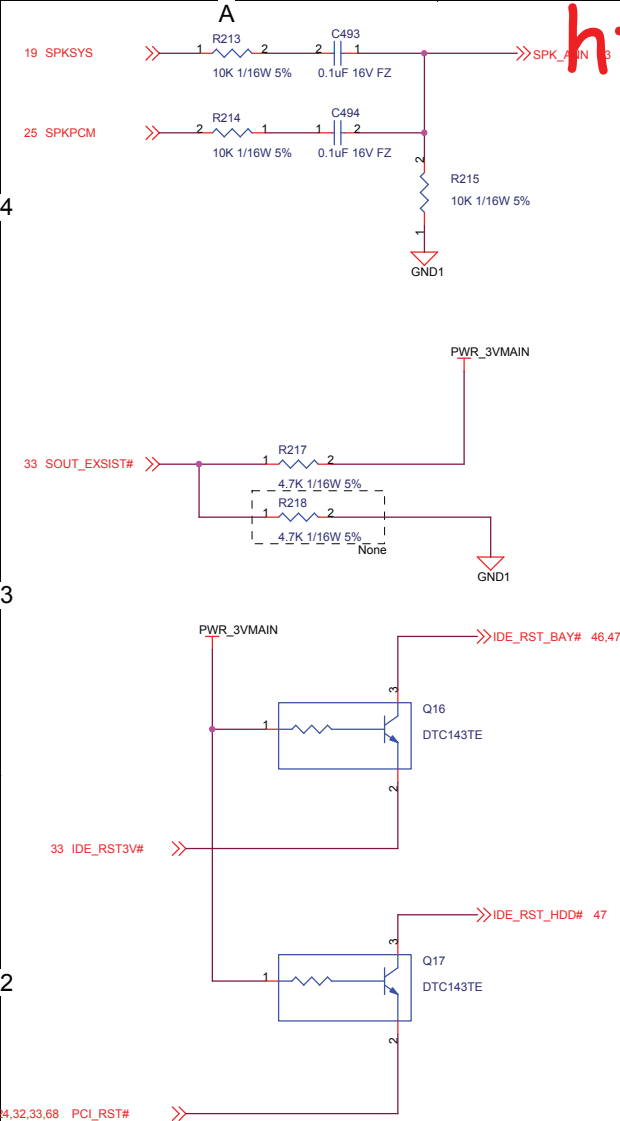


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Rev.	Date	Design	Check	Appr.	Description				
Design	02/05/07	Konaka	Check	Fuchida		Appr.	Fukuyo	FUJITSU LTD.	Sheet 31 / 73

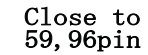


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Rev.	Date	Design	Check	Appr.	Description				
Design	02/05/07	Konaka	Check	Fuchida		Appr.	Fukuyo	FUJITSU LTD.	Sheet 32 / 73



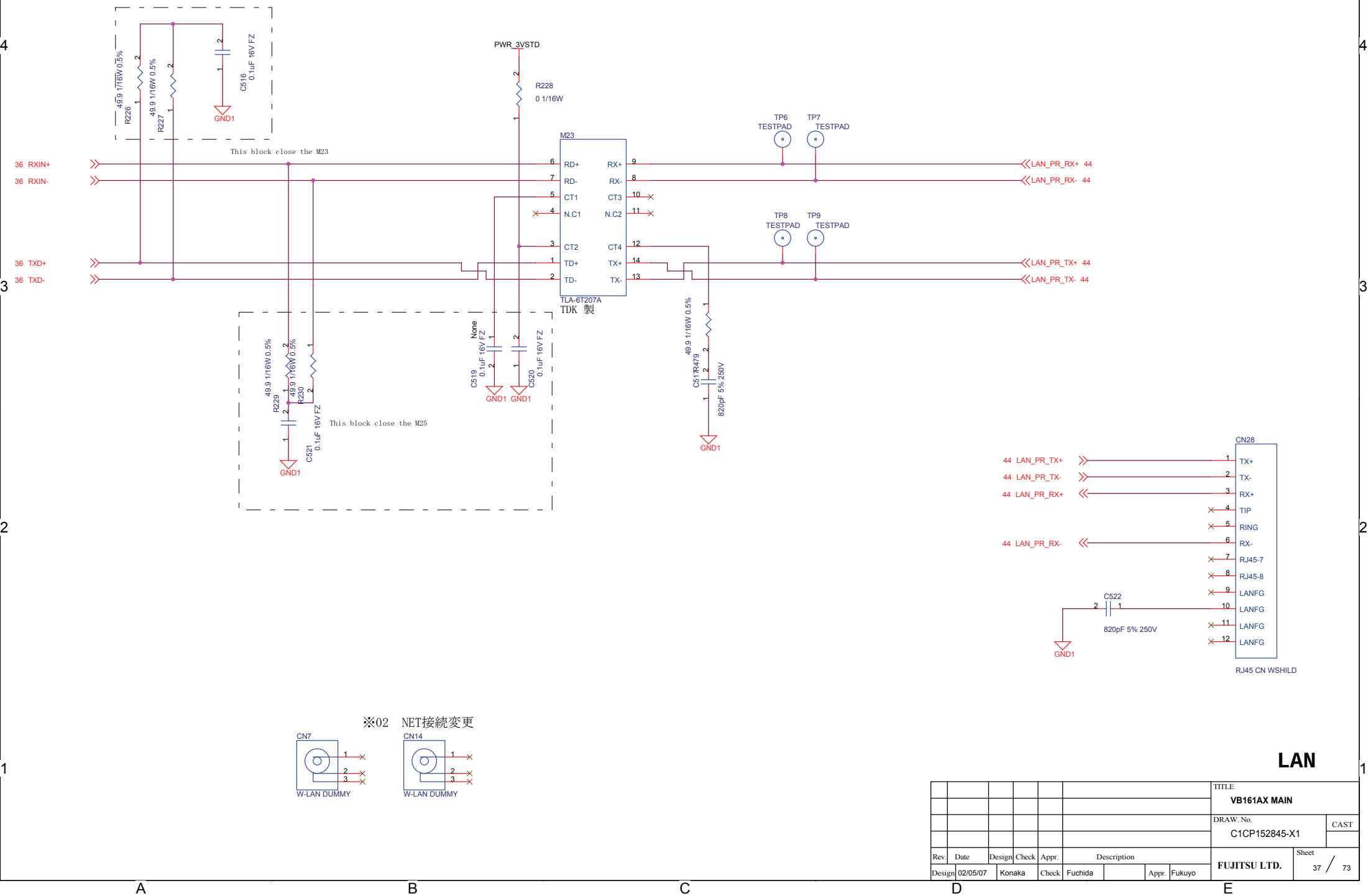


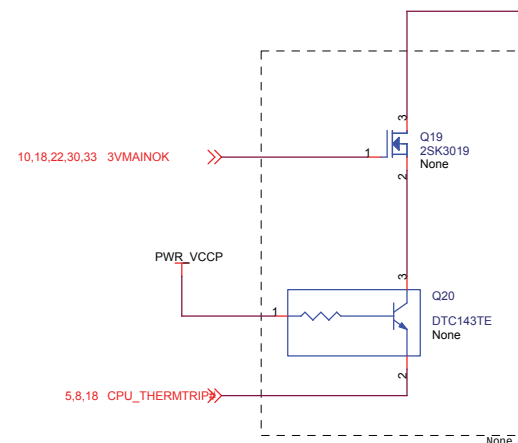
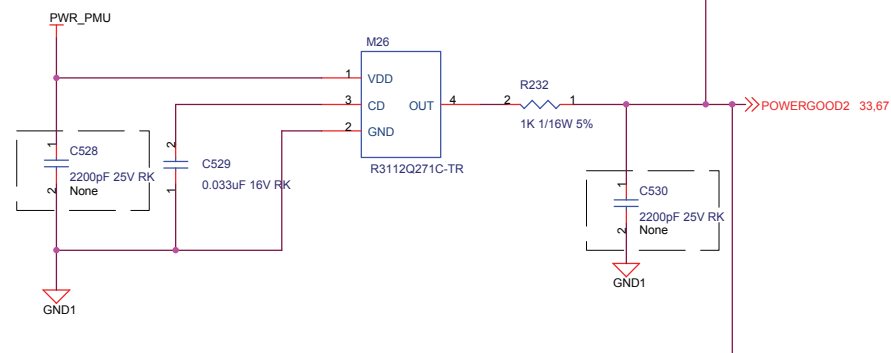
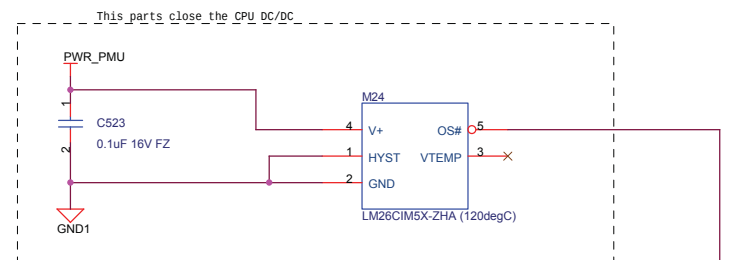
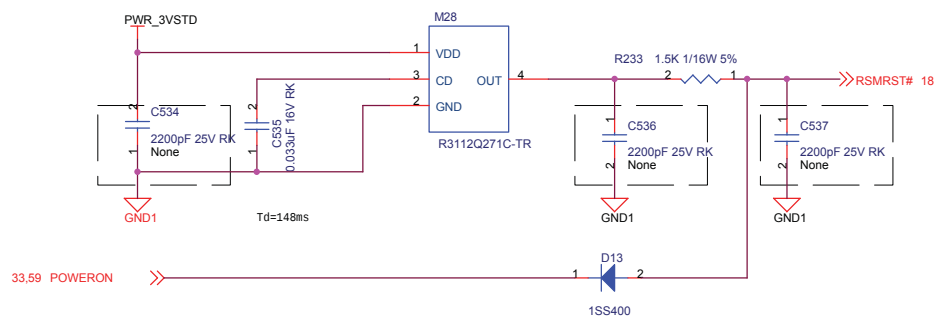
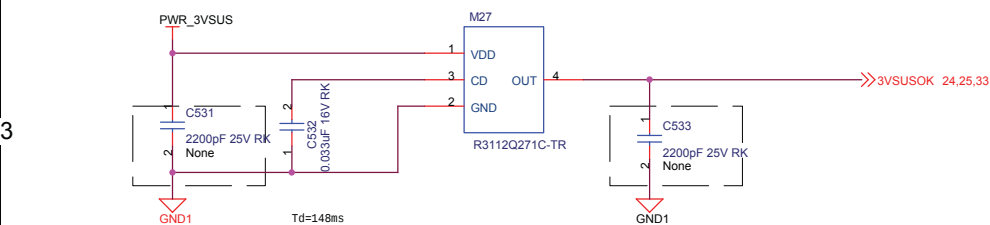
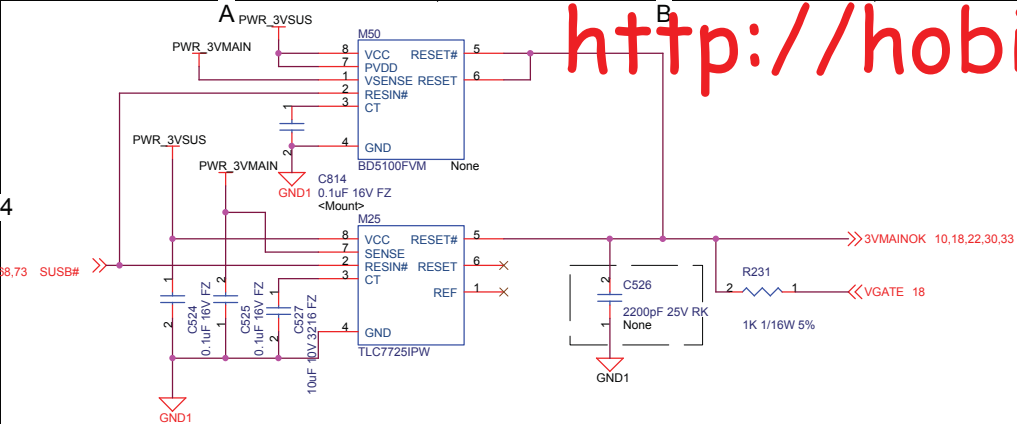
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Rev.	Date	Design	Check	Appr.	Description				Sheet	
Design	02/05/07	Konaka	Check	Fuchida			Appr.	Fukuyo	FUJITSU LTD.	34 / 73



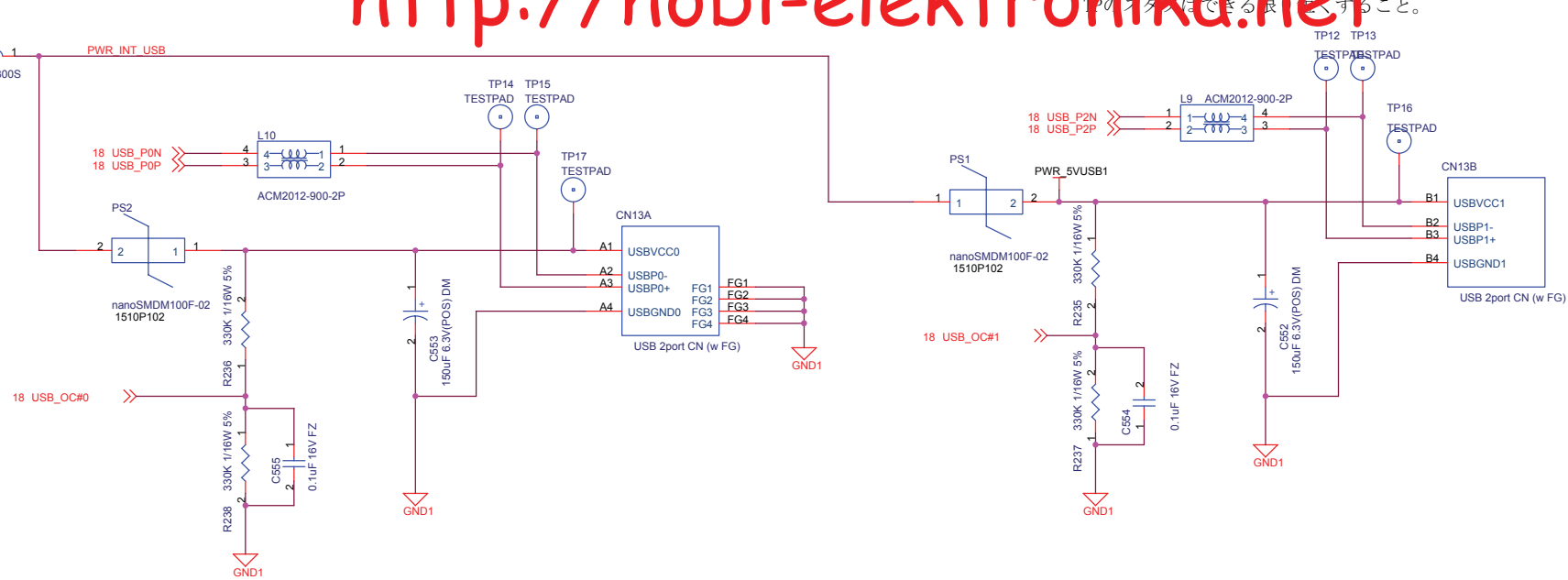
[RTL8100B(L)]

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Rev.	Date	Design	Check	Appr.	Description				
Design	02/05/07	Konaka	Check	Fuchida		Appr.	Fukuyo	FUJITSU LTD.	Sheet 36 / 73

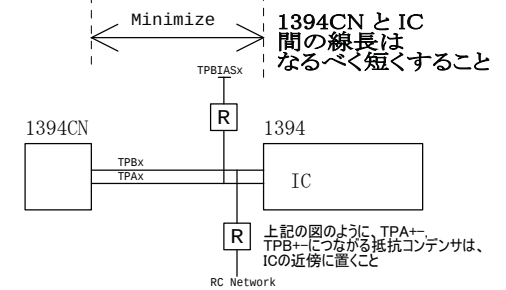
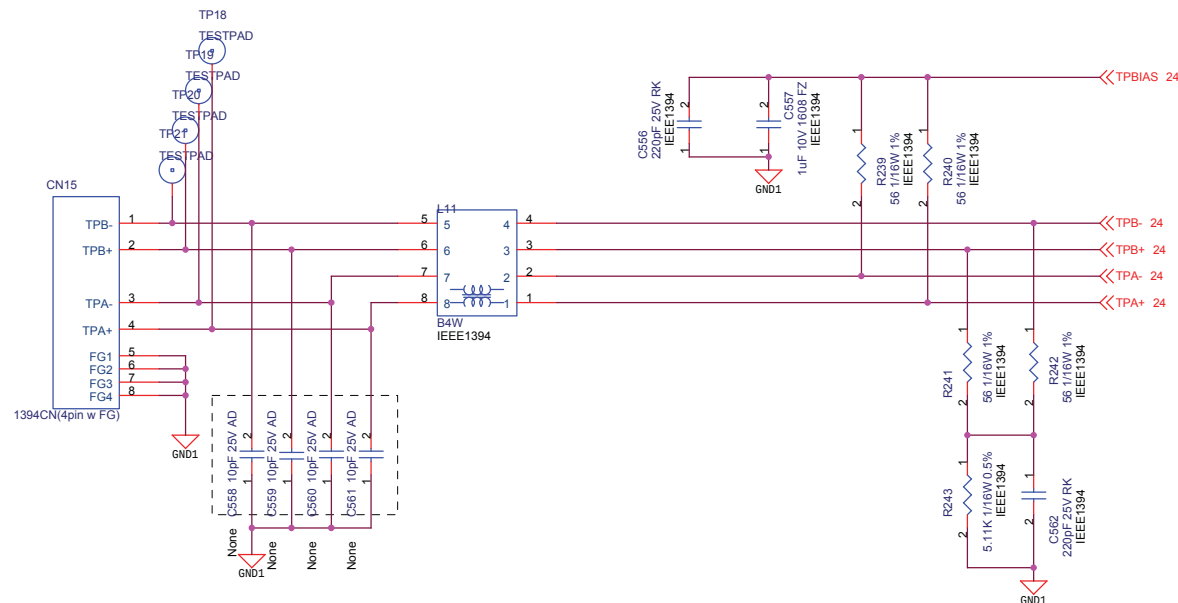




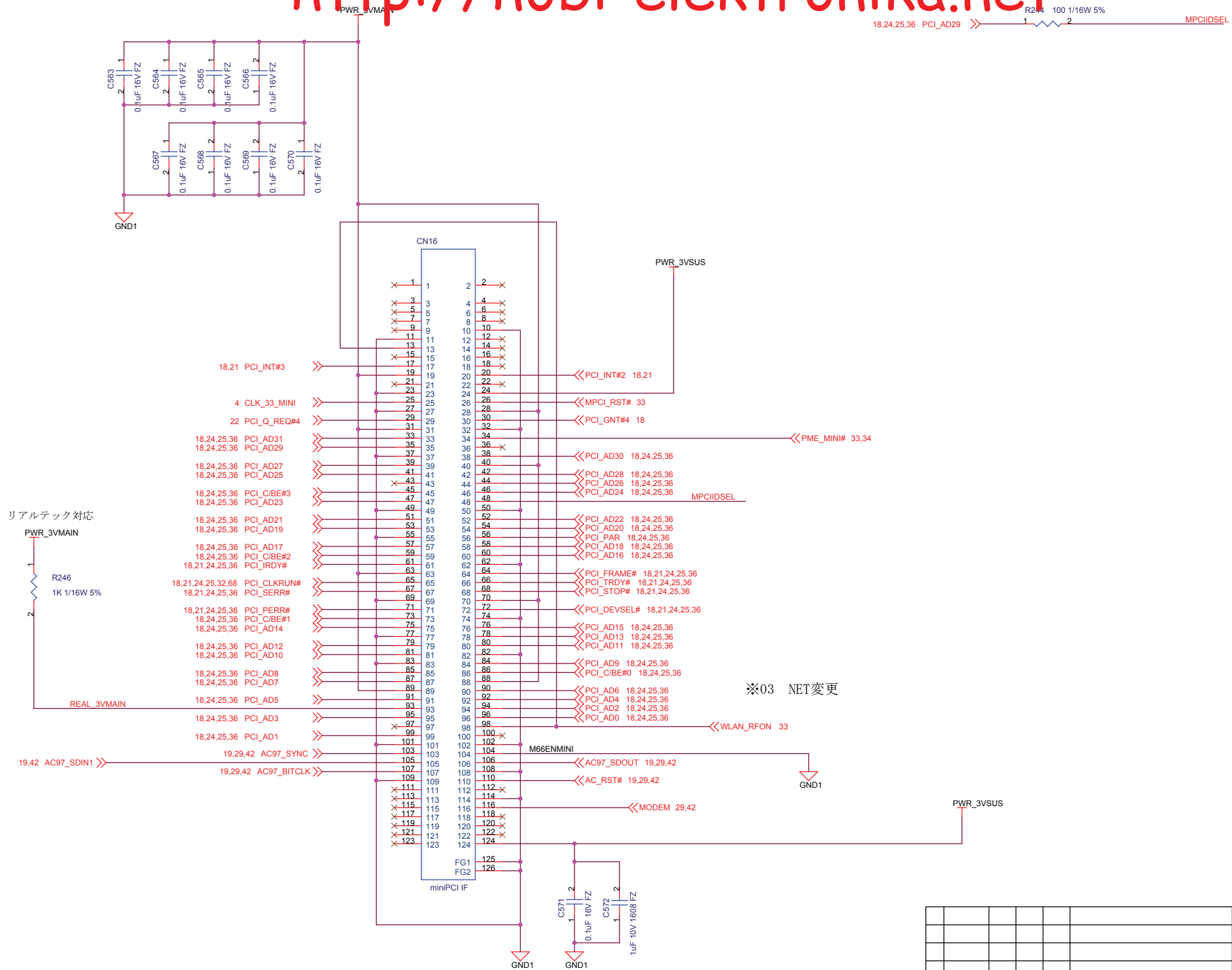
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Rev.	Date	Design	Check	Appr.	Description		Sheet
Design	02/05/07	Konaka	Check	Fuchida		Appr. Fukuyo	FUJITSU LTD. 38 / 73



TPのスタブはできる限り短くすること。



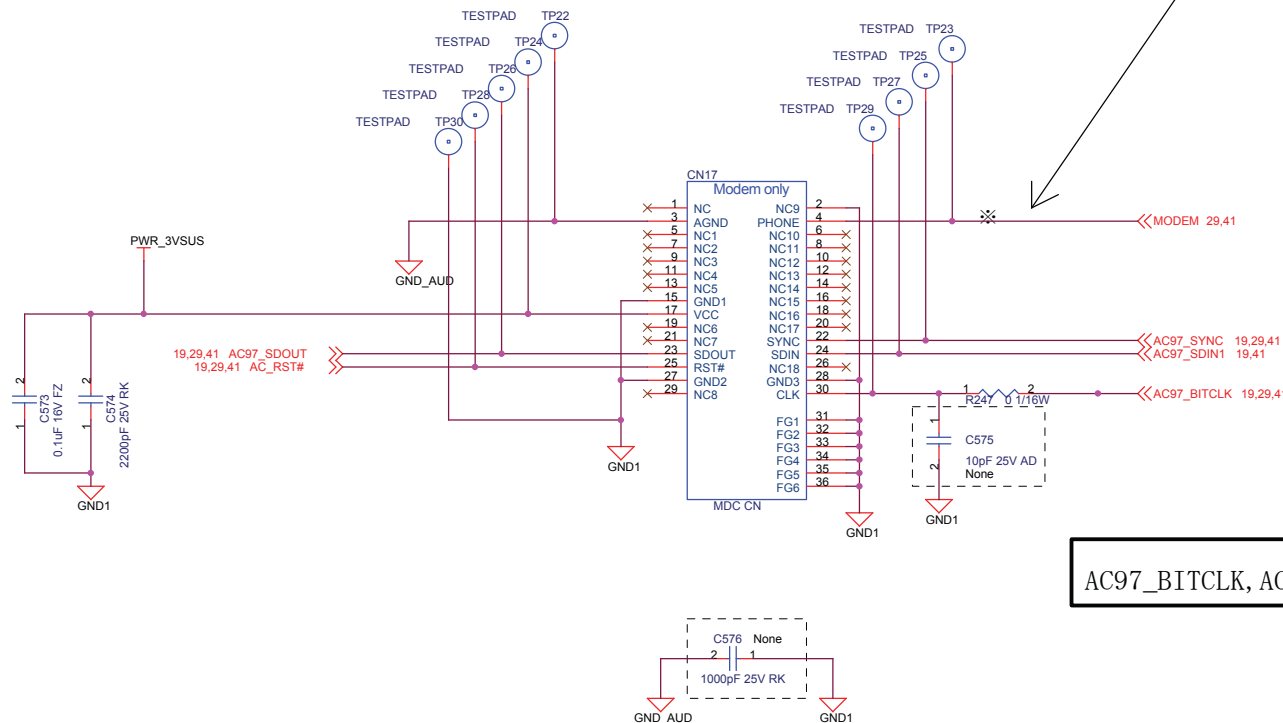
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MiniPCI CN1

						TITLE	
						VB161AX MAIN	
						DRAW. No.	CAST
						C1CP152845-X1	
Rev.	Date	Design	Check	Appr.	Description	FUJITSU LTD.	
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						Fukuyo	

※印は微小なAnalogLineのため、GNDAUDでガード
(上下層を含む)すること。パターン幅 最小でかまいません。



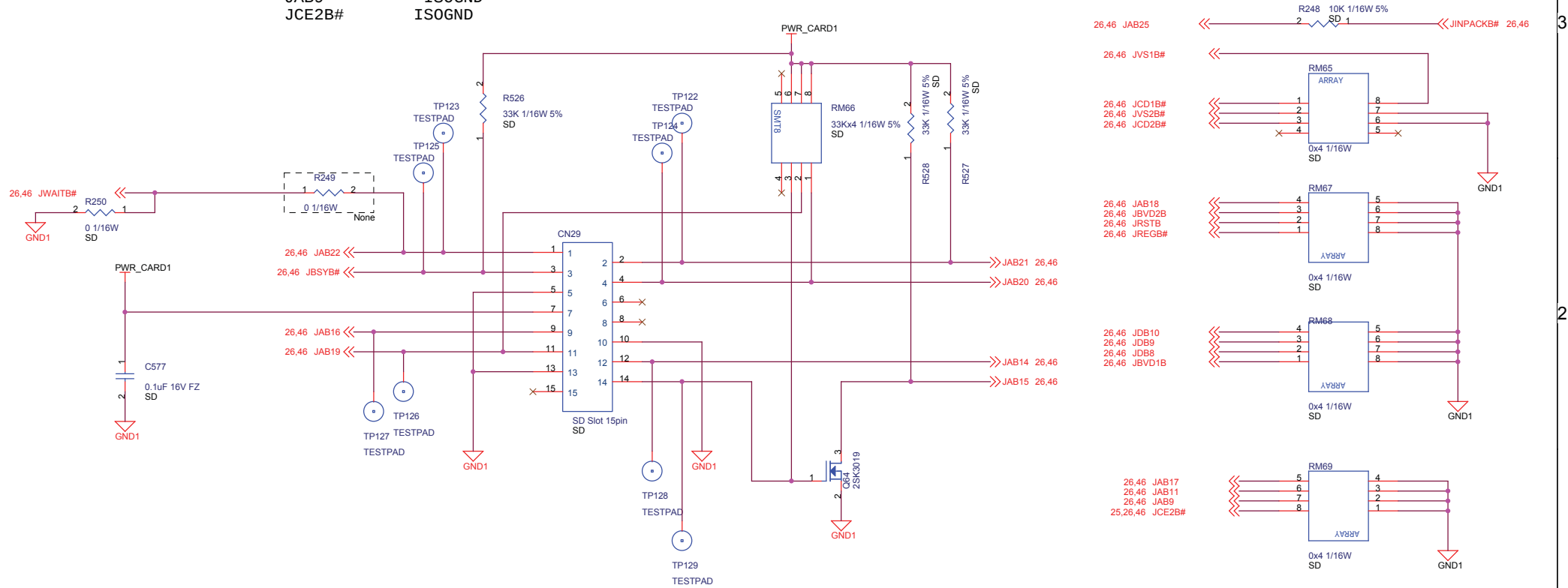
モジュールの固定用ネジ穴はGND 1 に接続する。

											TITLE	
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											C1CP152845-X1	
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MISC
JWAITB# SQRV3
JAB22 MC_CD#

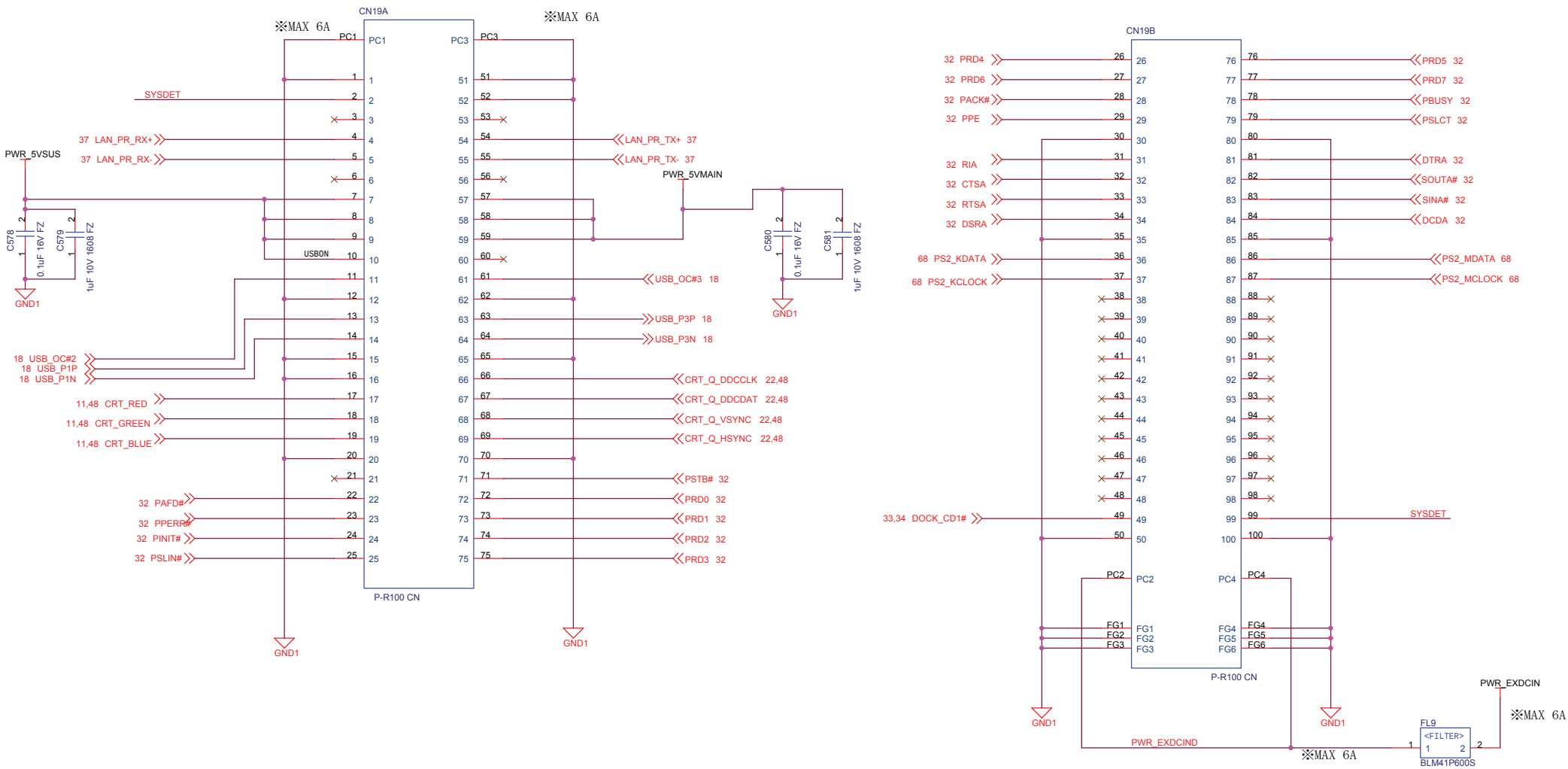
JAB25 SQRVDR
JINPACKB# SQRVDRX or SQRV4
JCD1B# B_CCD1#
JVS1B# B_CVS1
JCD2B# B_CCD2#
JVS2B# B_CVS2
JAB18 SQRV1
JRSTB SQRV2
JREGB# SQRV5
JBVD2B SQRV6
JBVD1B SQRV7
JDB8 SQRV8
JDB9 SQRV9
JDB10 SQRV10
JAB17 ISOGND
JAB11 ISOGND
JAB9 ISOGND
JCE2B# ISOGND

SD I/F
JAB14 SD_DATA1
JAB19 SD_DATA0
JAB16 SD_CLK/MS_CLK
JAB20 SD_CMD
JBSYB# SD_DATA3
JAB21 SD_DATA2
JAB15 MC_WP#

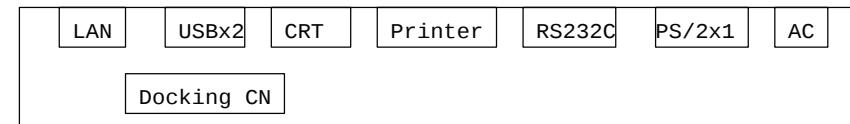


[SD SLOT]

							TITLE	
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Rev.	Date	Design	Check	Appr.	Description		FUJITSU LTD.	
Design	02/05/07	Konaka	Check	Fuchida		Appr. Fukuyo	Sheet	73



Port replicator Layout

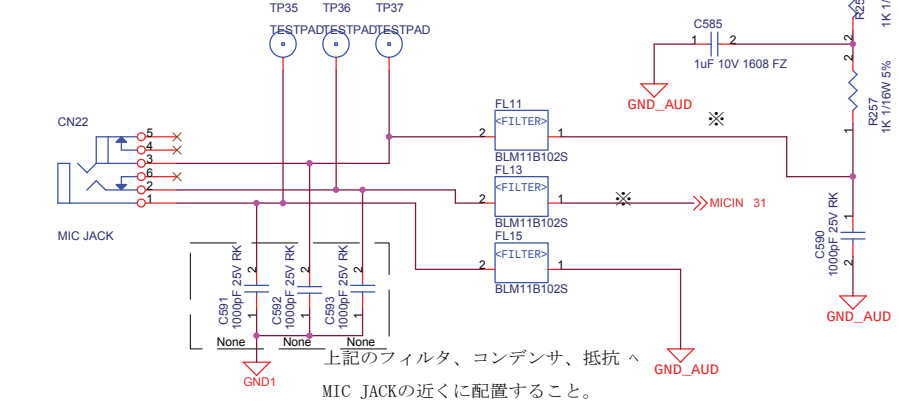


P-R CN

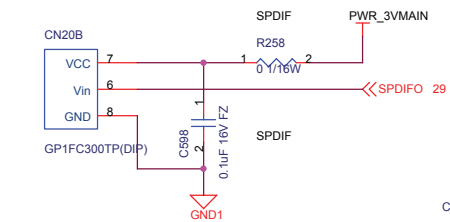
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Rev.	Date	Design	Check	Appr.	Description		FUJITSU LTD.	
Design	02/05/07	Konaka	Check	Fuchida		Appr.	Fukuyo	Sheet 44 / 73

全項AUDIO AREA

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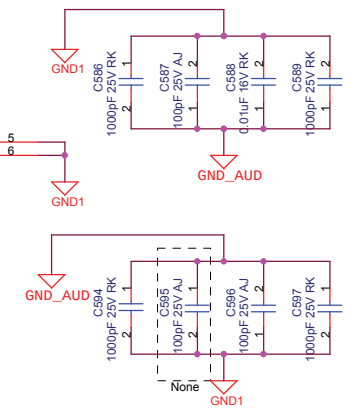
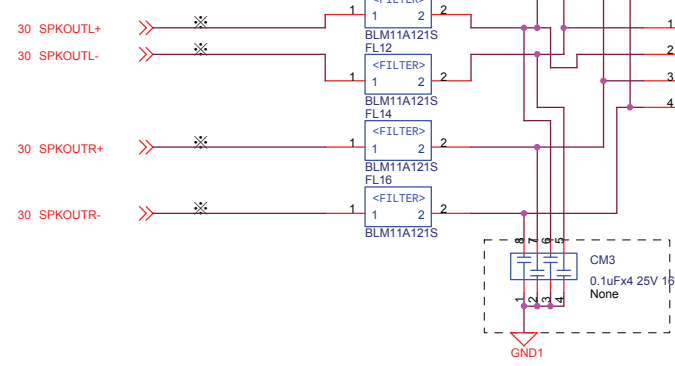
上記のフィルタ、コンデンサ、抵抗は
MIC JACKの近くに配置すること。



上記のフィルタ、コンデンサ、抵抗は
HP JACKの近くに配置すること。

本ページ中に記載されているフィルタ (FLxx) はそれぞれ接点
されているコネクタの近くに配置し、フィルターコネクタ間の z
線は非常に短く配線すること。
The filters in this page (referred with FLxx) have to
be placed near each connector connecting to respective
filters. The traces between connector and filter have
to be short as much as possible.

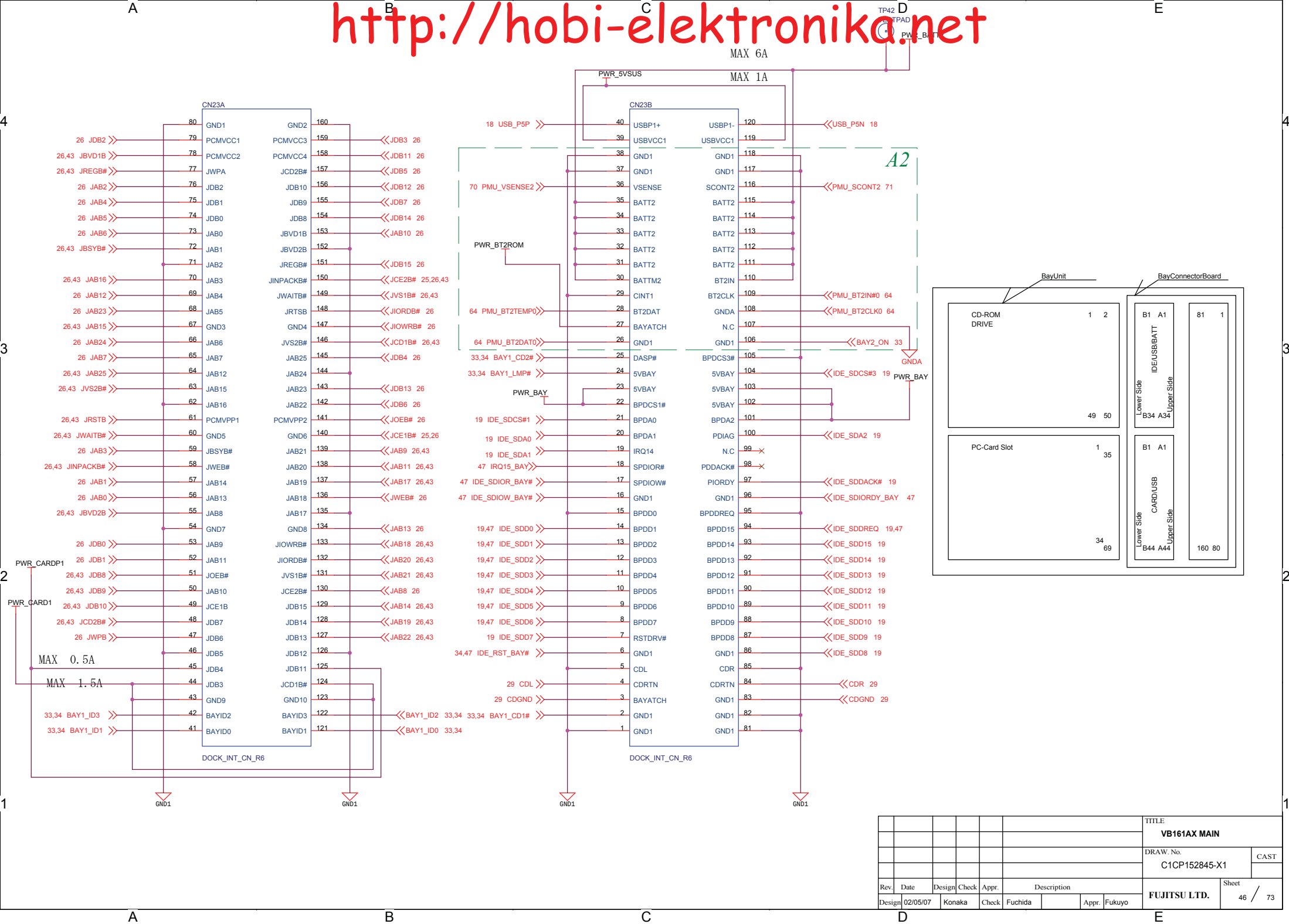
本項中※印のついたパターンは、AUDIOGND ナガードし、その上
下はAUDIOGNDのベタパターンで覆うこと。7た、Mxの下の基板
面およびその下の層には、デジタル系の信号線を配線しないこ
と。
The traces marked with ※ have to be guarded both side and
both adjacent layer with AUDIOGND. Underneath Mx on
surface layer and in one more internal layer don't allow
digital traces to be run.



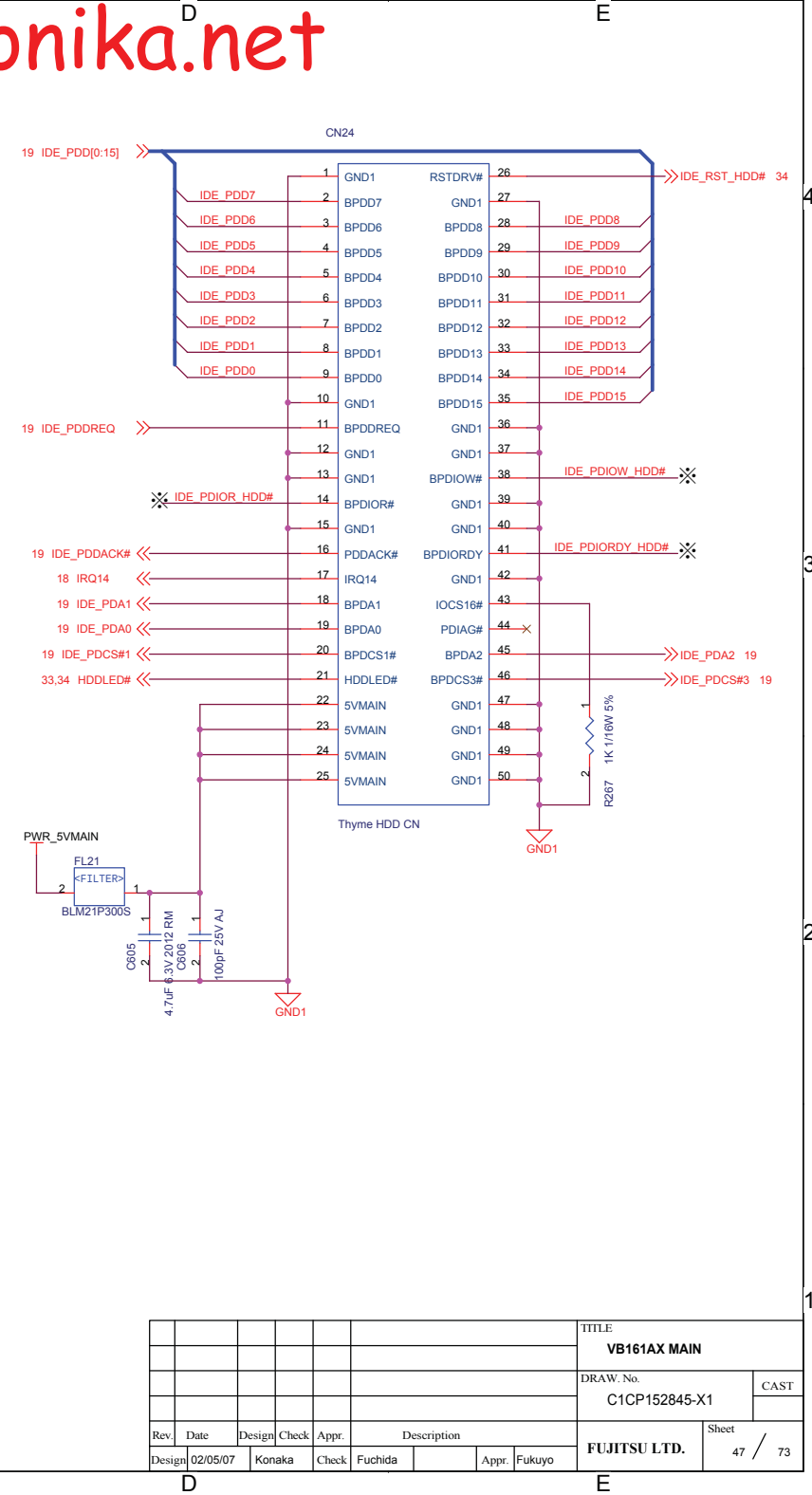
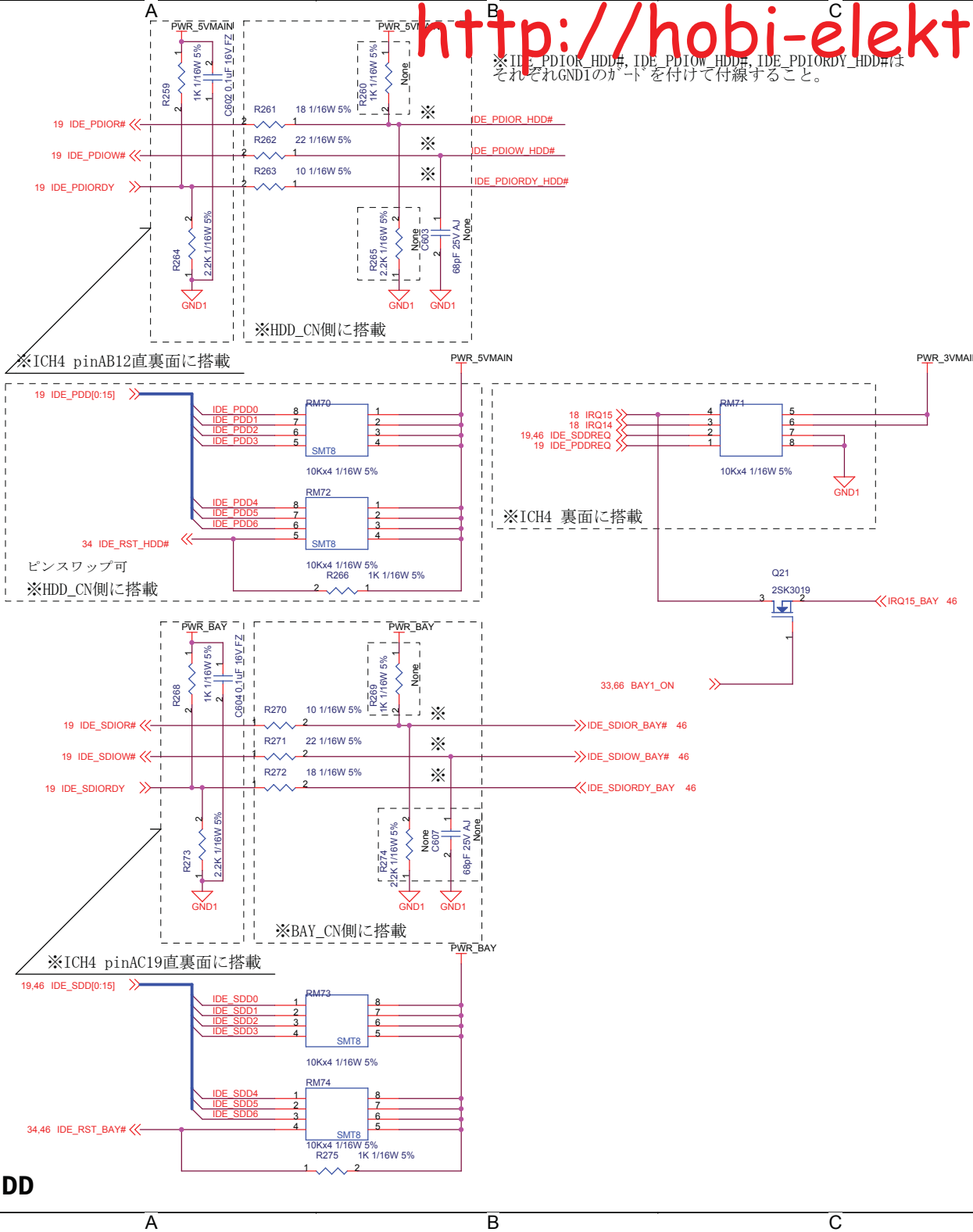
Audio CN

					TITLE	
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Rev.	Date	Design	Check	Appr.	Description	
Design	02/05/07	Konaka	Check	Fuchida		
					Appr.	Fukuyo
					FUJITSU LTD.	
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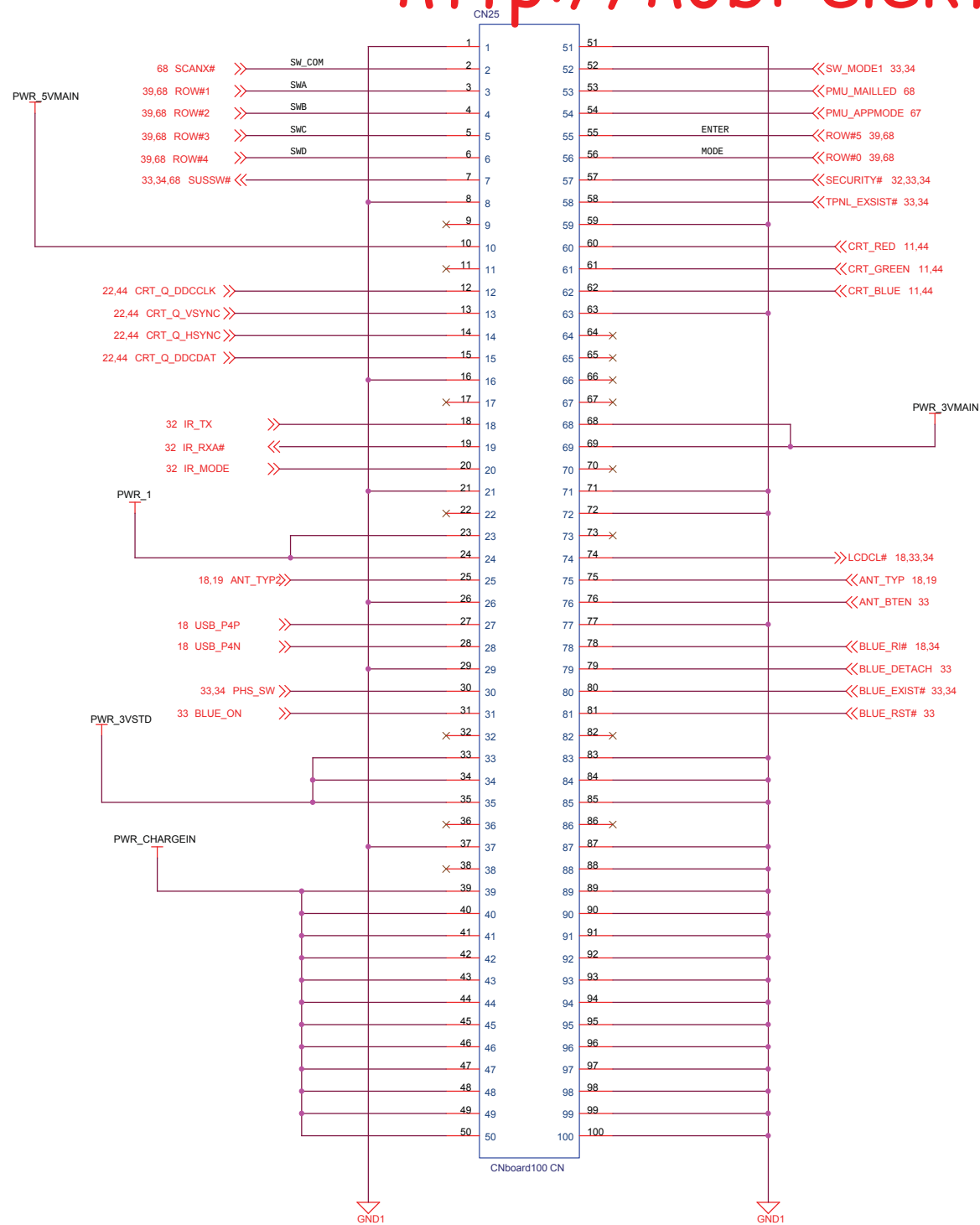
http://hobi-elektronika.net



									TITLE	
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Rev.	Date	Design	Check	Appr.	Description					
Design	02/05/07	Konaka	Check	Fuchida			Appr.	Fukuyo	FUJITSU LTD.	Sheet 46 / 73

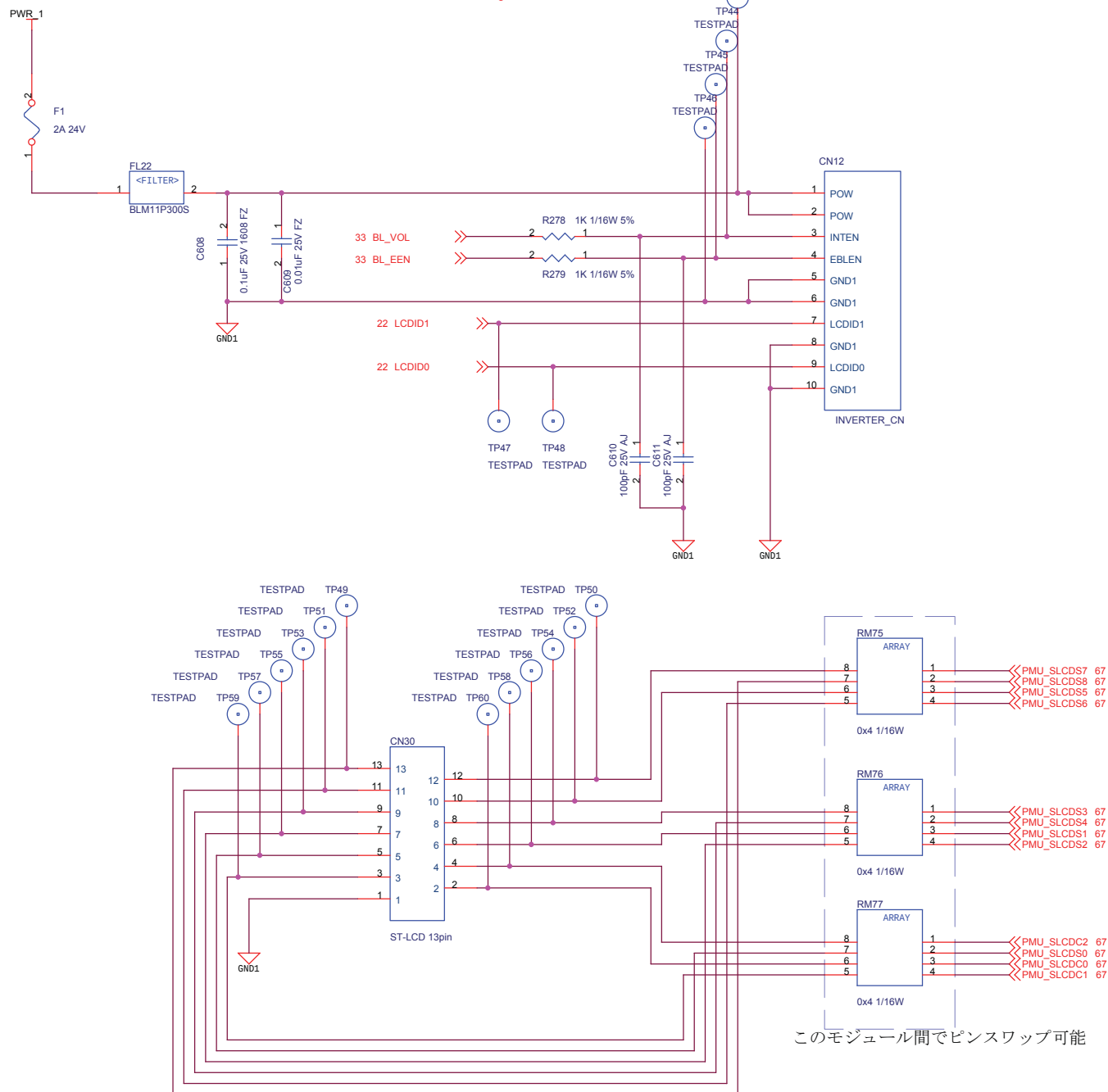


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Rev.	Date	Design	Check	Appr.	Description	FUJITSU LTD.	
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						Sheet	73
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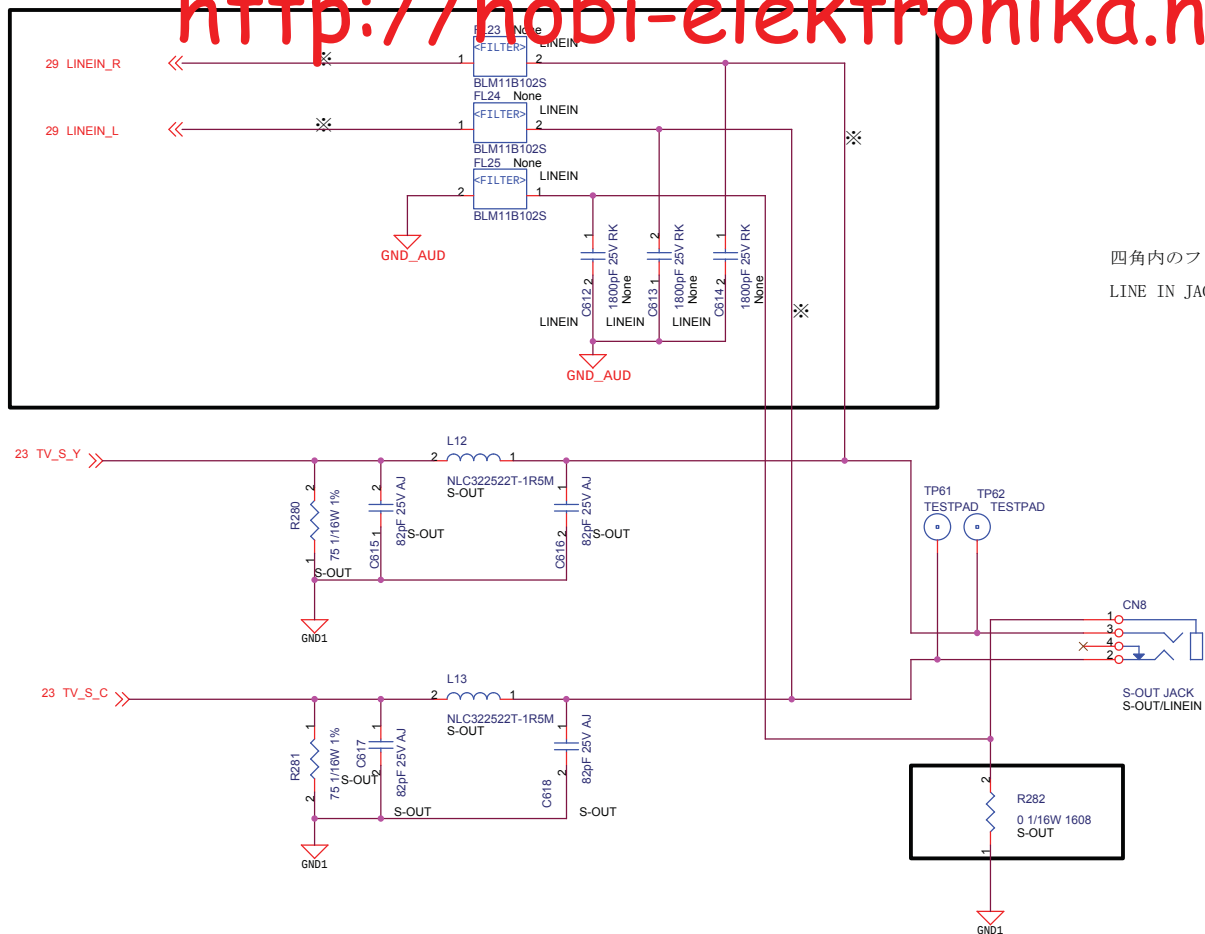
CN Board

										TITLE	
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										C1CP152845-X1	
Rev.	Date	Design	Check	Appr.	Description					Sheet	
Design	02/05/07	Konaka	Check	Fuchida			Appr.	Fukuyo	FUJITSU LTD.		48 / 73



このモジュール間でピンスワップ可能

						TITLE				
						VB161AX MAIN				
						DRAW. No.				CAST
						C1CP152845-X1				
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Design	02/05/07	Konaka	Check	Fuchida		Appr.	Fukuyo	FUJITSU LTD.	49 / 73	



四角内のフィルタ、コンデンサ、抵抗は
LINE IN JACKの近くに配置すること。

						TITLE			
						VB161AX MAIN			
						DRAW. No.			CAST
						C1CP152845-X1			
Rev.	Date	Design	Check	Appr.	Description				
Design	02/05/07	Konaka	Check	Fuchida		Appr.	Fukuyo	FUJITSU LTD.	Sheet 51 / 73

Power Tree

2002/08/02

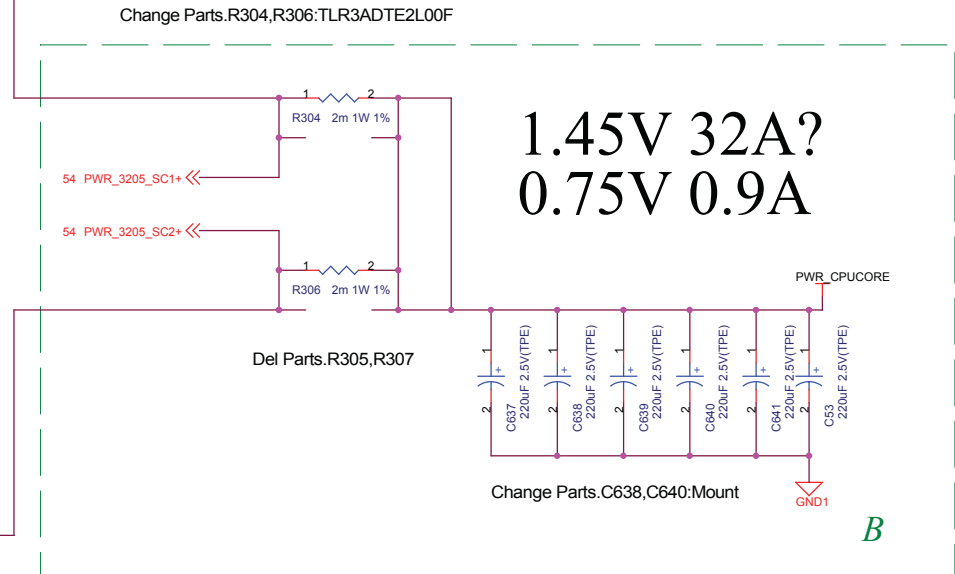
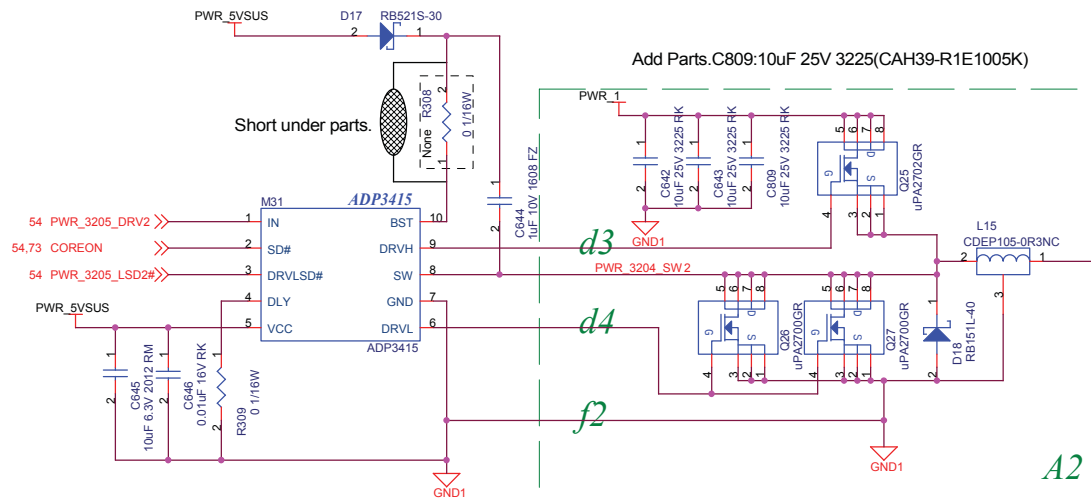
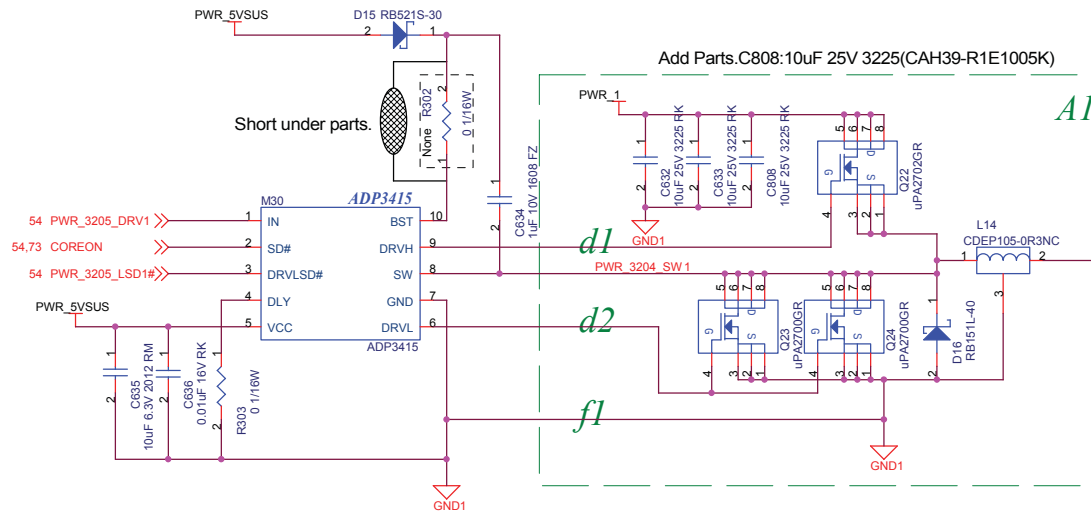


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Power/ DDC/ CPUCore 1

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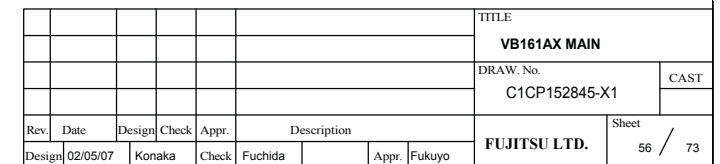


1.45V 32A?
0.75V 0.9A

 B

Power/ DDC/ CPUCore2

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Rev.	Date	Design	Check	Appr.	Description				
Design	02/05/07	Konaka	Check	Fuchida		Appr.	Fukuyo	FUJITSU LTD.	Sheet 55 / 73





_1.25VSUS

a

C660
0.033uF 16V RK

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68

68,7:

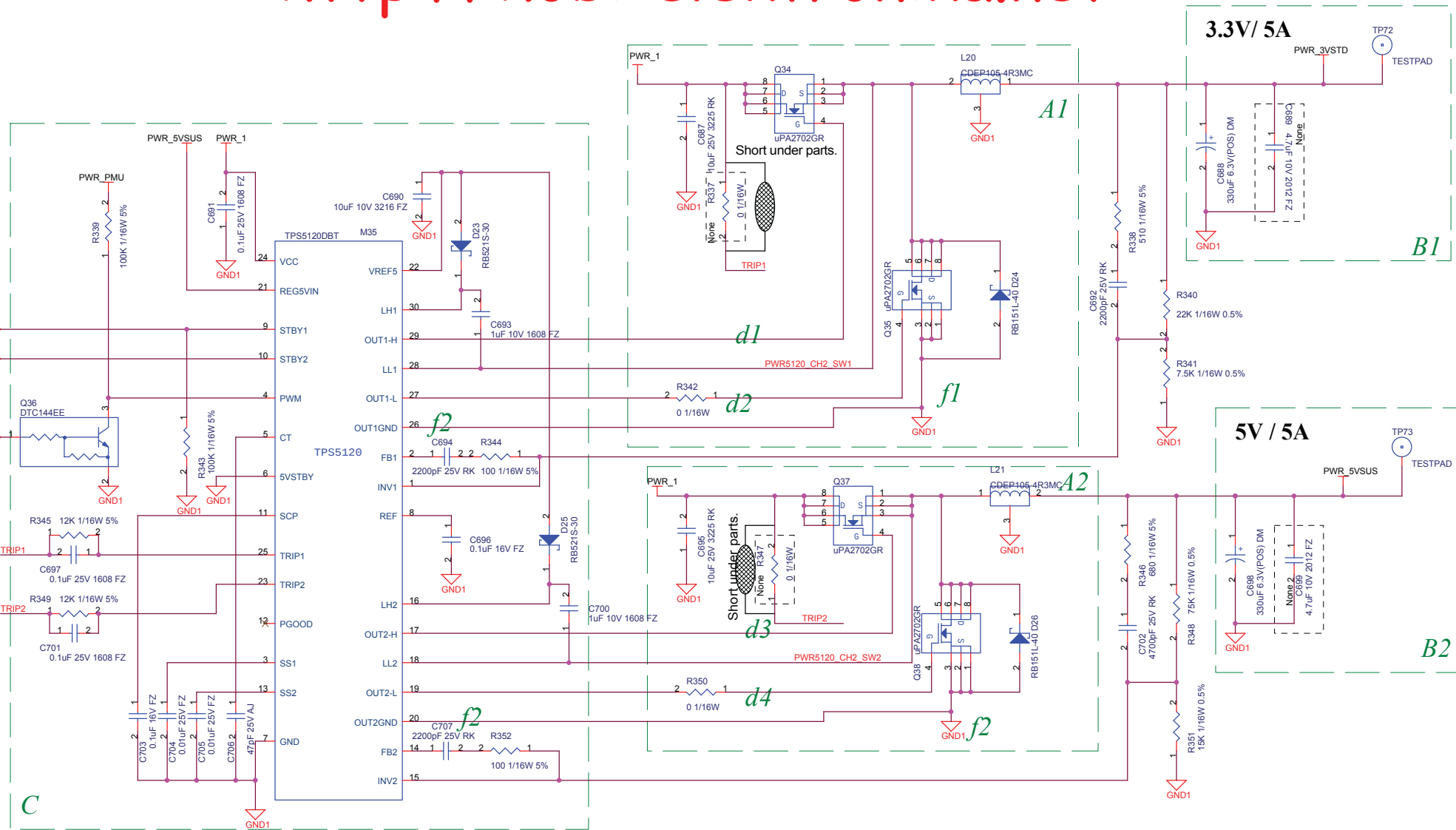
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										TITLE VB161AX MAIN		
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Rev.	Date	Design	Check	Appr.	Description					Sheet		
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Power/ DDC/ 3VStr,5VS

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A

B

C

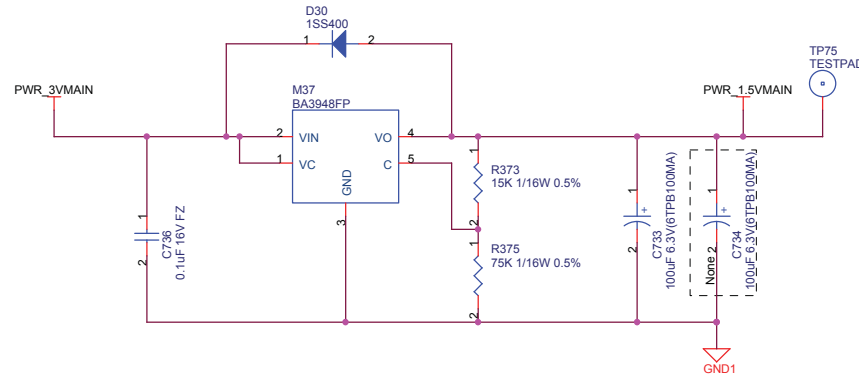
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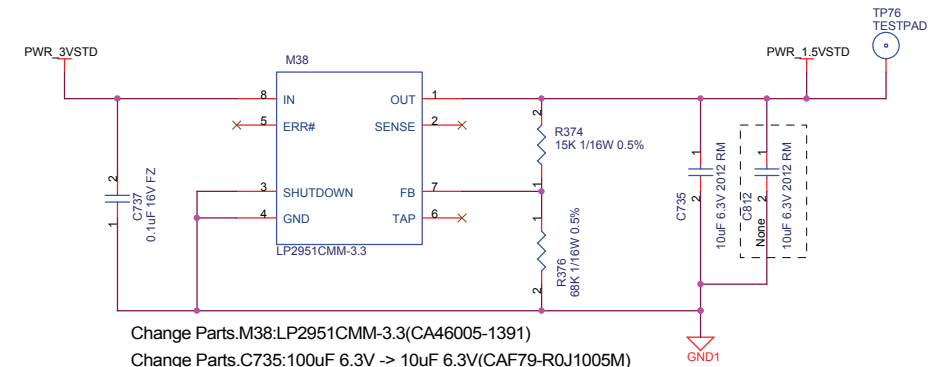


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1.5V 0.74A

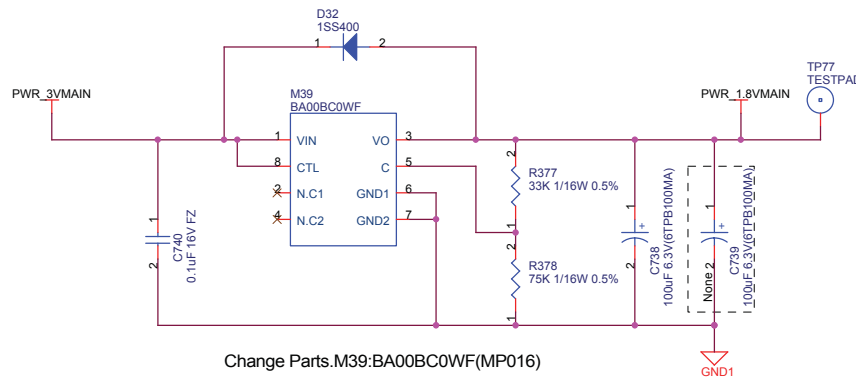


1.5V 0.08A



Change Parts.M38:LP2951CMM-3.3(CA46005-1391)
Change Parts.C735:100uF 6.3V -> 10uF 6.3V(CAF79-R0J1005M)
Add Parts.C812:10uF 6.3V(CAF79-R0J1005M)Reserve
Change Parts.R376:75K -> 68K 1/16W 0.5%(CAA34-K1J6802D)

1.8V 0.3A



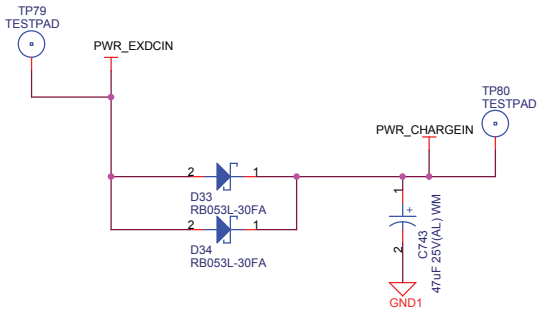
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Power/ LDO/ System

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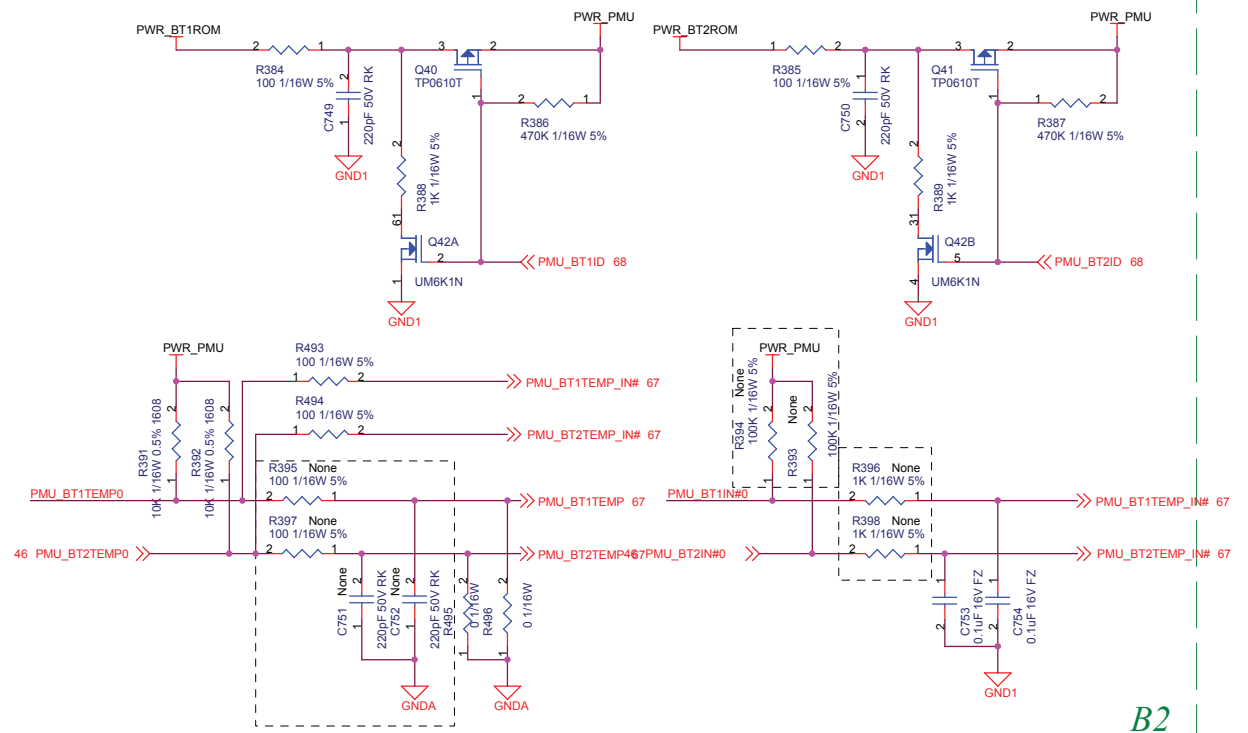
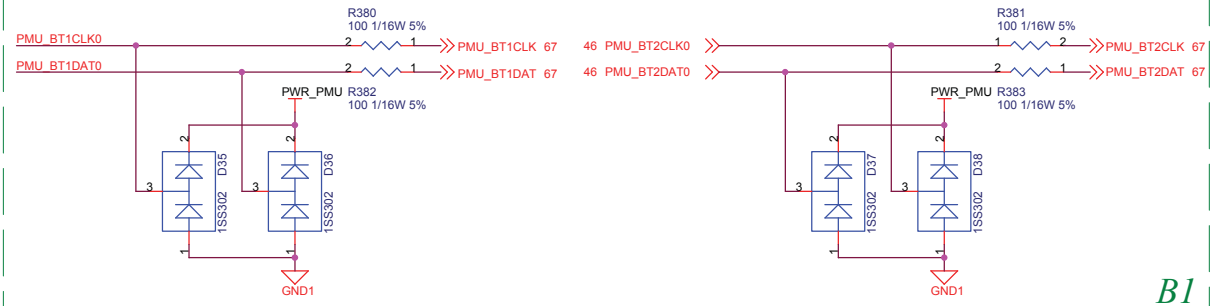
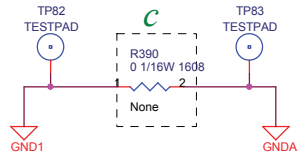
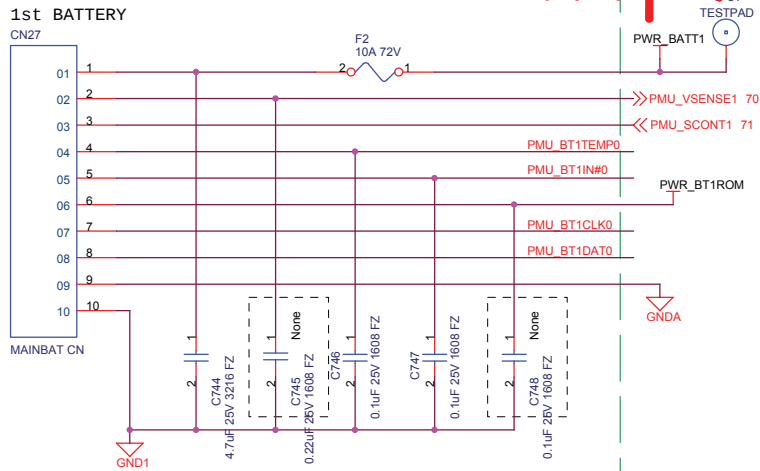


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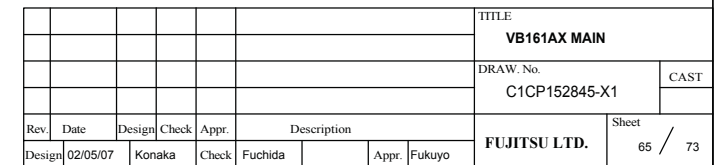
Power/ Node/ DCIn

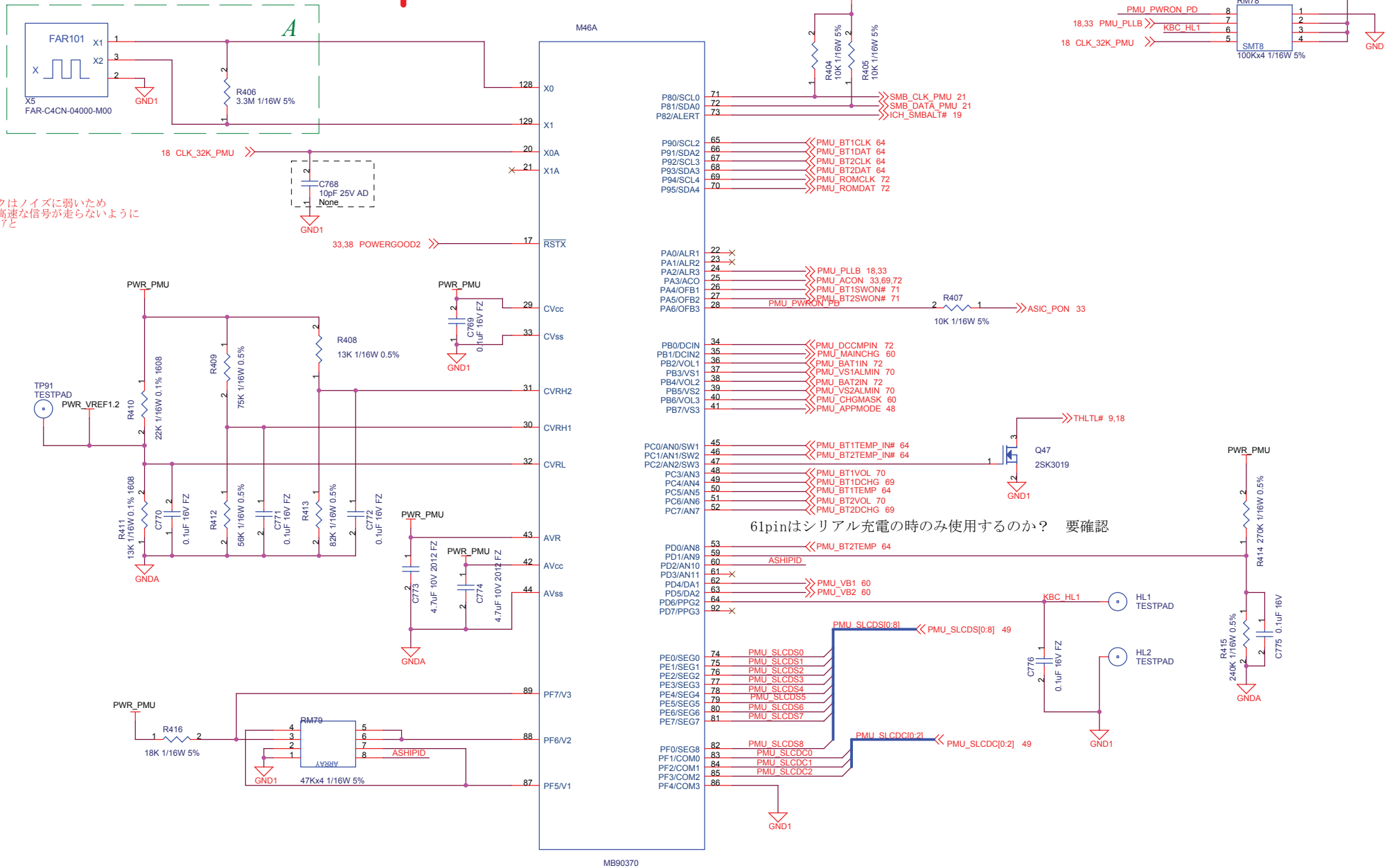
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Power/ Node/ Battery

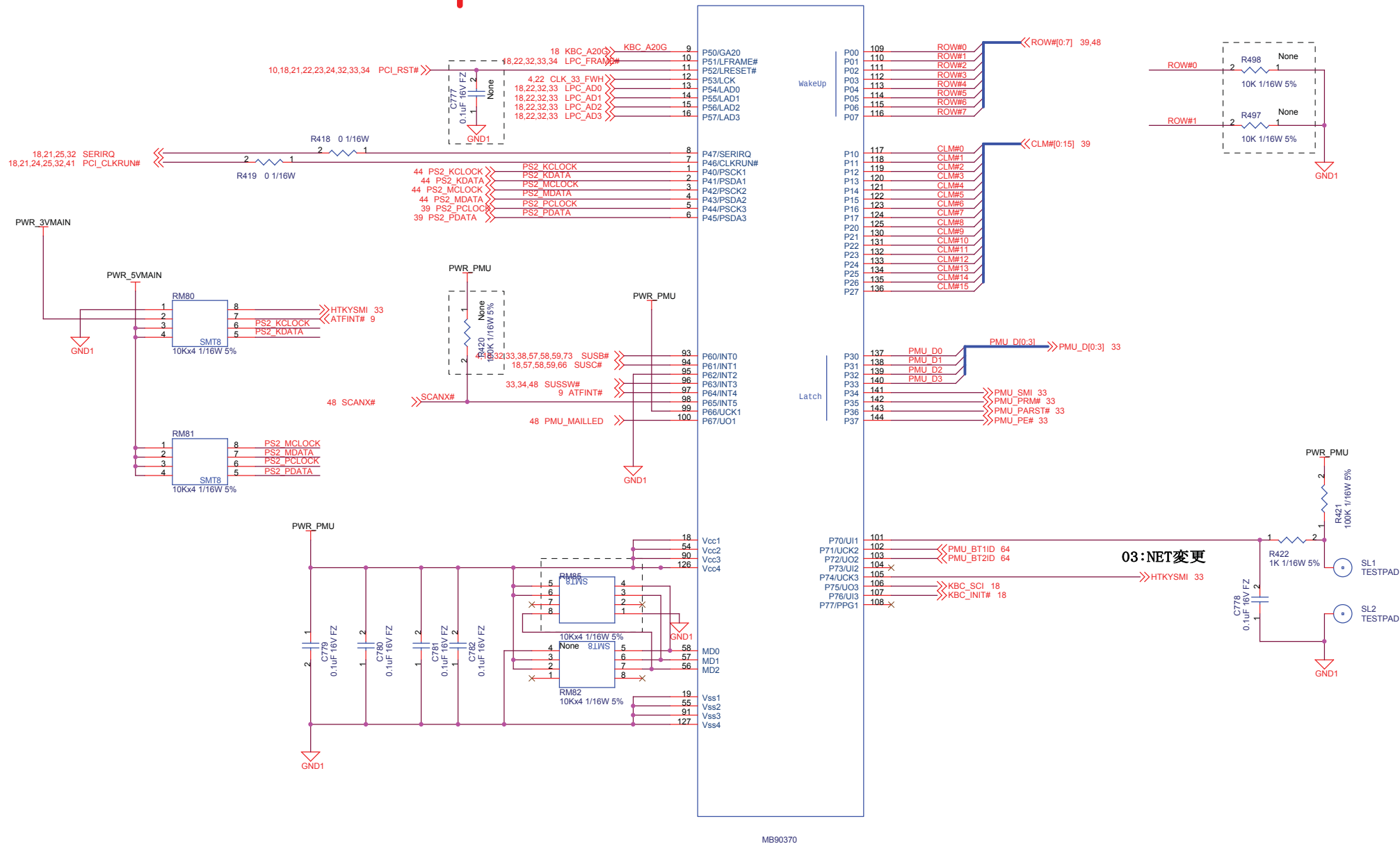
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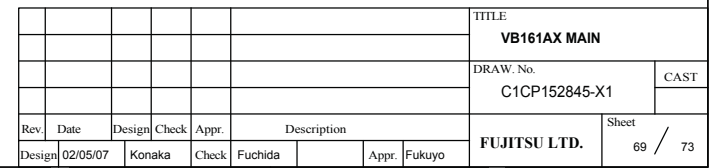
Power/ PMU/ LUNA1

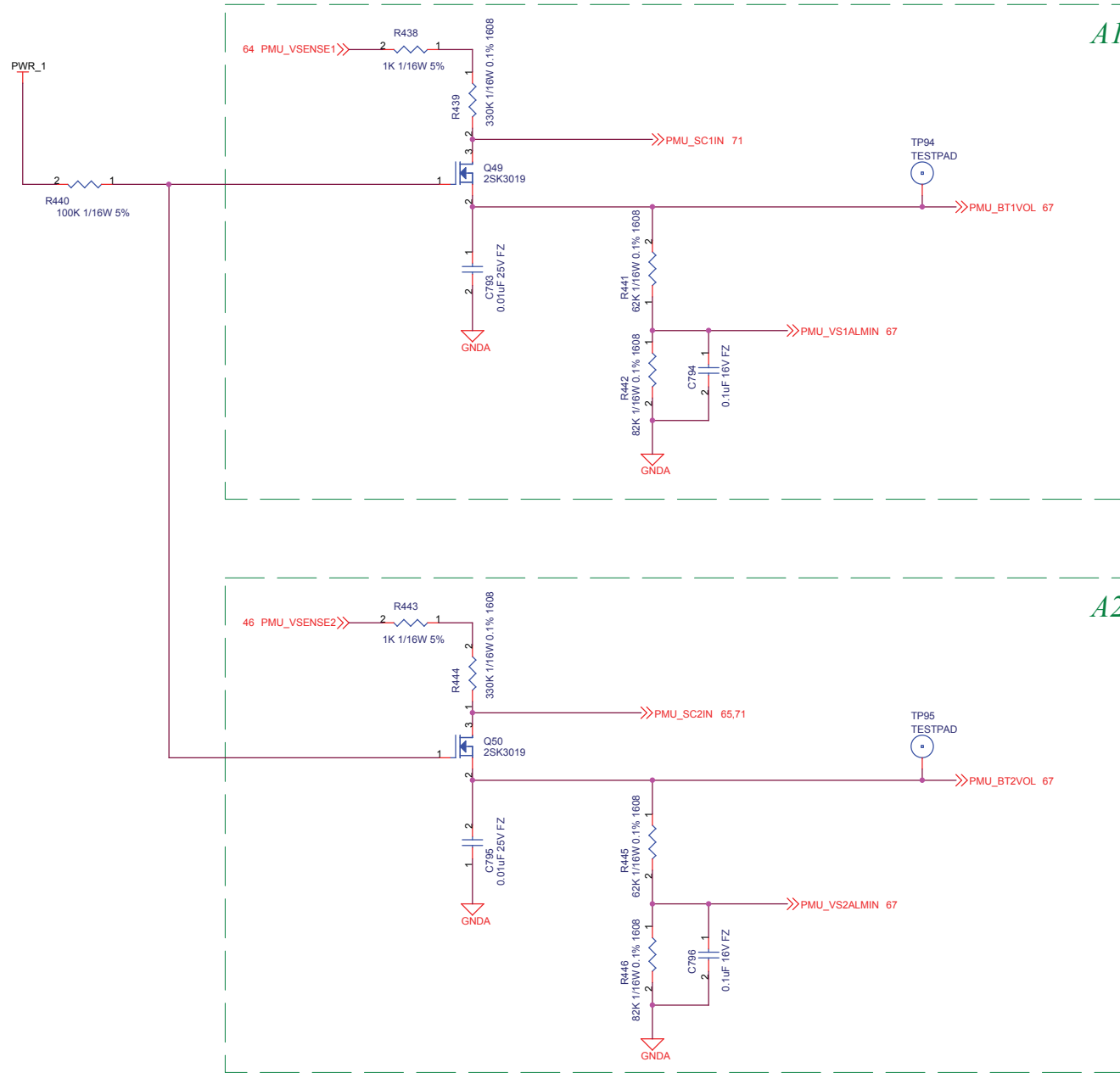
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本ページの抵抗・コンデンサはM38867付近に配置すること。
 パスコンについてはM38867の電源ピンに対して均等になるように配置分散し、
 電源ピンまでのリード長を最大限短くなるようレイアウトすること。

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									FUJITSU LTD.		





Power/ PMU/ VolMeter

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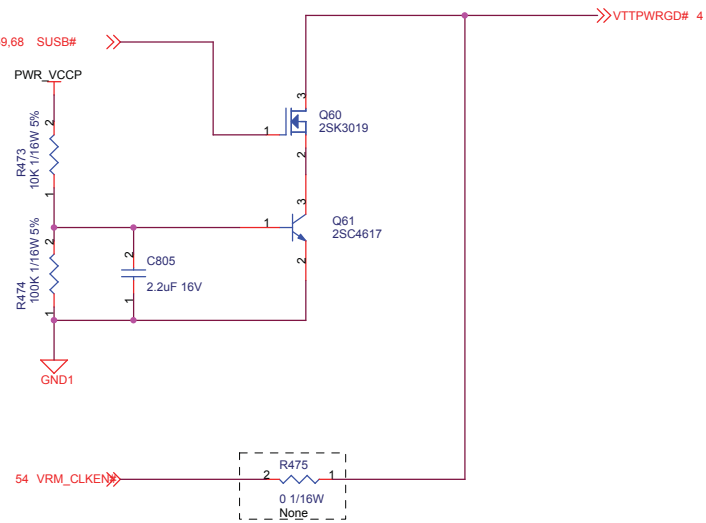
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Rev.	Date	Design	Check	Appr.	Description				
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