

CLEVO Tigerhill- Pineview System Block Diagram

AC-IN, CHARGER

SHEET 16

14.318 MHz

Colck Generator

SLG8SP510T

17.1mm*8.1mm*1.2mm
TSSOP 64PIN

SHEET 7

Intel
Pineview 45nm

C0/C1/C2/C3/C4

PROCESSOR

FCBGA 559 pin

22mm*22mm*2.35mm

SHEET 2, 3, 4, 5

DDR2 One Channel

1GB & 2GB

Memory Termination

DDRII SO-DIMM0

SHEET 6

667MT/s

VDD3, VDD5

SHEET 18

3.3V, 5V, 3VS, 5VS

SHEET 17

1.05VS, 1.5VS

SHEET 20

1.8V, 0.9VS(VTT_MEM)

SHEET 19

VCORE

SHEET 21

LCD CONNECTOR

SHEET 12

1280x800

<8"

CRT OUT

SHEET 22

1400x1050

Direct X9

CLICK BOARD

TOUCH PAD

SHEET 15

32.768 KHz

EC

ITE 8502E

128pins LQFP

14*14*1.6mm

SHEET 15

X2-GEN1

10 Gbits/s

DMI

<=8"

SOUTH BRIDGE

Tiger Point

360 MMAP

17mm*17mm*1.06mm

SHEET 8, 9, 10, 11

SYSTEM SMBUS

0.1"~13

AZALIA LINK

24 MHz

SHEET 14

MIC

IN

HP

OUT

Azalia Codec

RealTek

ALC272

48pins QFN

9*9*1.6mm

SHEET 14

INT SPK R

SHEET 14

INT SPK L

SHEET 14

INT MIC

SHEET 14

INT. K/B

SHEET 15

LPC ROM

SHEET 15

EC SMBUS

THERMAL SENSOR

EMC1402

SHEET 2

SMART FAN

SHEET 12

SMART BATTERY

SHEET 16

32.768KHz

SATA I/II 3.0Gb/s

<12"

USB2.0 480 Mbps

1"~16"

SATA HDD

SHEET 13

(USB2)

Port_2

SHEET 13

(USB7)

CCD

SHEET 24

USB0

Port_0

SHEET 24

USB1

Port_1

SHEET 24

Mini Card

WLAN

Bluetooth(USB5)

SHEET 13

JMC251/ JMC261

LAN

CARD READER

SHEET 23

25 MHz

RJ-45

SHEET 23

Card Reader

Socket

SHEET 23

Mini PCIE

3G CARD (USB4)

SHEET 22

CLEVO C0. 藍天電腦

Title [01]BLOCK DIAGRAM

Size A3 Document Number 6-7P-M1104-001 6-71-M1100-D01 Rev 1.0

Date: Friday, December 04, 2009 Sheet 1 of 26



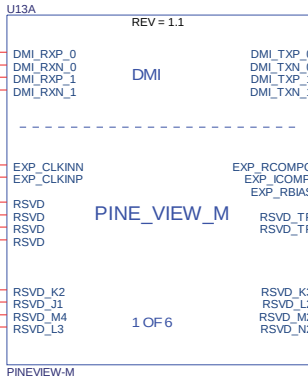
DMI Signal Group

Zdiff = 85 Ohm ±10%
signal / space : 6 / 6 mils
length < 6400 mils

8 DMI_ICH_IT_MR0_DP
8 DMI_ICH_IT_MR0_DN
8 DMI_ICH_IT_MR1_DP
8 DMI_ICH_IT_MR1_DN

C176 0.1u 10V X7R 04
C177 0.1u 10V X7R 04
C178 0.1u 10V X7R 04

DMI_RXP_0 F3
DMI_RXN_0 F2
DMI_RXP_1 H4
DMI_RXN_1 G3

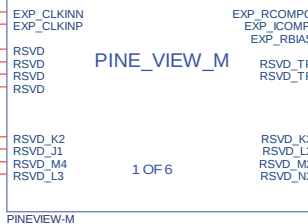


DMI_TXP_0 G2
DMI_TXN_0 G1
DMI_TXP_1 H3
DMI_TXN_1 J2

*10mil short
*10mil short
*10mil short
*10mil short

DMI_ICH_MT_IR0_DP 8
DMI_ICH_MT_IR0_DN 8
DMI_ICH_MT_IR1_DP 8
DMI_ICH_MT_IR1_DN 8

7 CLK_CPU_EXP#
7 CLK_CPU_EXP



EXP_CLKINN N7
EXP_CLKINP N6
EXP_RCOMP L10
EXP_ICOMPI L9
EXP_RBIA L8

RSVD_TP R10
RSVD_TP R9
RSVD_TP R8
RSVD_TP R7

RSVD_K2 K2
RSVD_J1 J1
RSVD_M4 M4
RSVD_L3 L3

LAYOUT NOTE:
< 500 mils to MCH ball
R26 750_1%_04
R25 49.9_1%_04

(2) CRT Sync Signal Group
DAC_HSYNC,DAC_VSYNC
Zo = 50 Ohm ±15%
signal : 5 mils
length < 14500 mils

(1) CRT DAC Signal Group
CRT_RED,CRT_GREEN,CRT_BLUE
VGA RGB resistors close to MCH ball
Zo = 37.5 Ohm ±15%
signal : 9 mils
length < 800 mils
Two VGA RGB resistors between
Zo = 50 Ohm ±15%
signal : 5 mils
length < 14000 mils

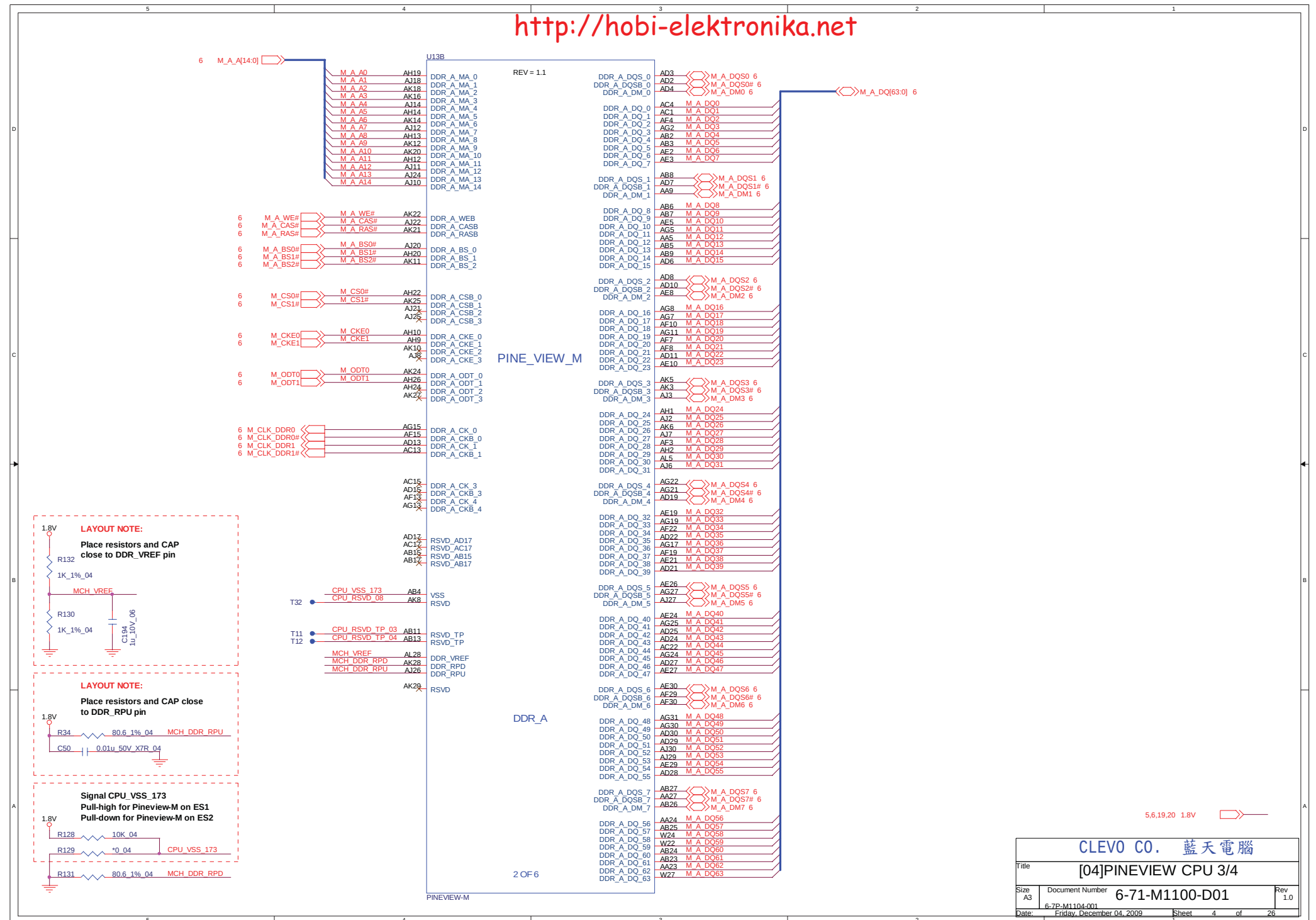
(3) CRT Control Signal Group
CRT_DDC_CLK,CRT_DDC_DATA
Zo = 50 Ohm ±15%
signal : 5 mils
length < 15100 mils

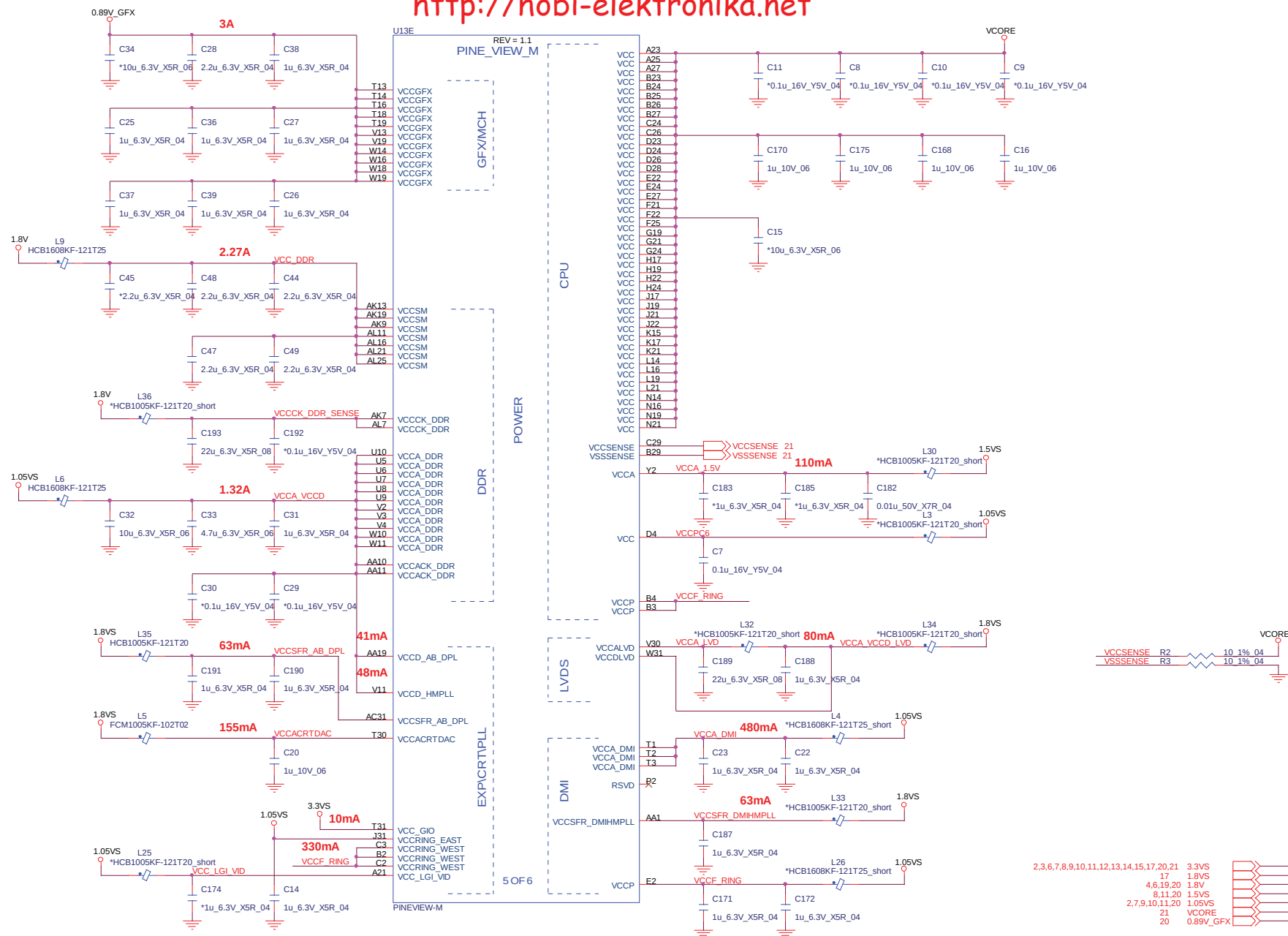
2.7 CLK_BSEL0 R16
2.7 CLK_BSEL1 R11
2.7 CLK_BSEL2 R10

*1K 04 Z0301 D12
*1K 04 Z0302 C5
*1K 04 Z0303 C6

XDP_RSVD_00
XDP_RSVD_01
XDP_RSVD_02
XDP_RSVD_03
XDP_RSVD_04
XDP_RSVD_05
XDP_RSVD_06
XDP_RSVD_07
XDP_RSVD_08
XDP_RSVD_09
XDP_RSVD_10
XDP_RSVD_11
XDP_RSVD_12
XDP_RSVD_13
XDP_RSVD_14
XDP_RSVD_15
XDP_RSVD_16
XDP_RSVD_17

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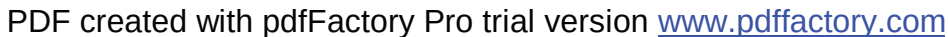




CLEVO C0. 藍天電腦

Title			
[05]PINEVIEW CPU 4/4			
Size	Document Number	Rev	
A3	6-7B-M1104-D01	1.0	
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<http://hobi-elektronika.net>

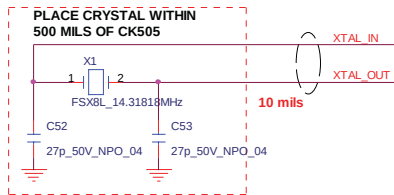




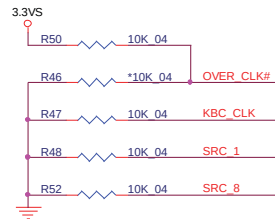
Zo = 55 Ohm ±15%
signal : 4 mils

Zo = 50 Ohm ±15%
signal : 5 mils

Zdiff = 92 Ohm ±10%
signal / space : 4 / 5.5 mils



FSLC BSEL2	FSLB BSEL1	FSLA BSEL0	Host Clock Frequency
---	---	---	CPU_SEL
0	1	1	166 MHz



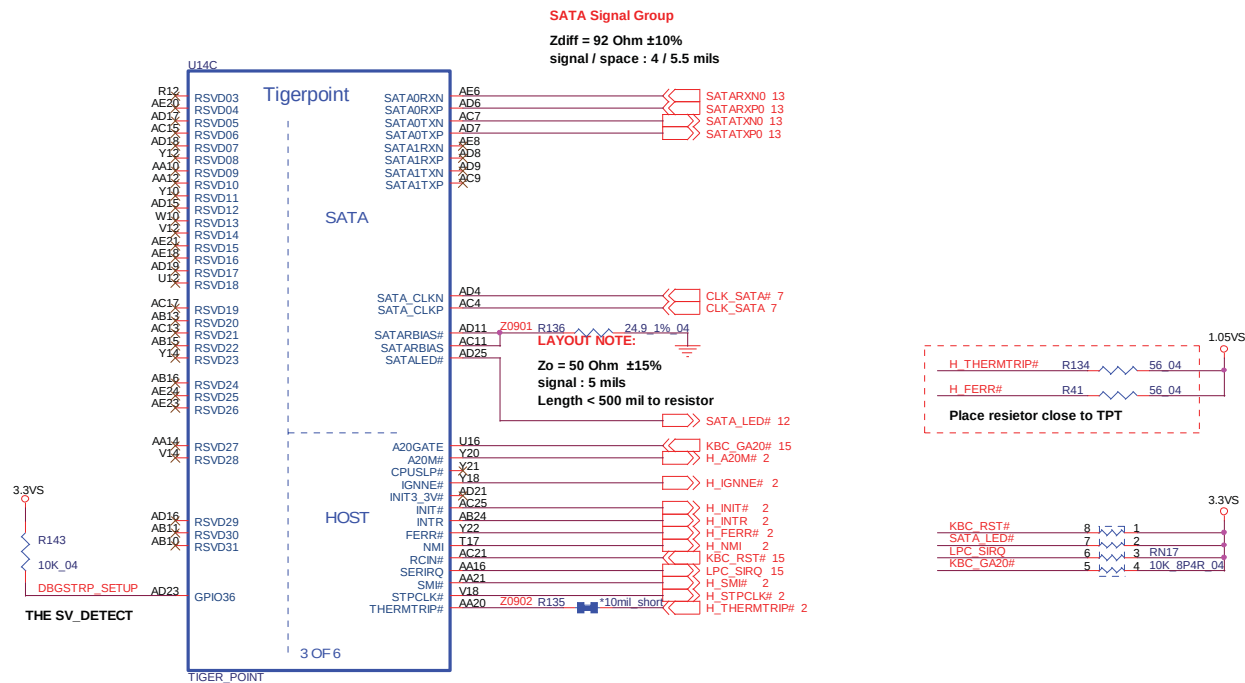
PN: 6-02-08510-EL0
SLG8SP510T

PN: 6-02-87560-EL0
RTM875T-606-VD-GRT

2,3,5,6,8,9,10,11,12,13,14,15,17,20,21 3.3VS
2,5,9,10,11,20 1.05VS

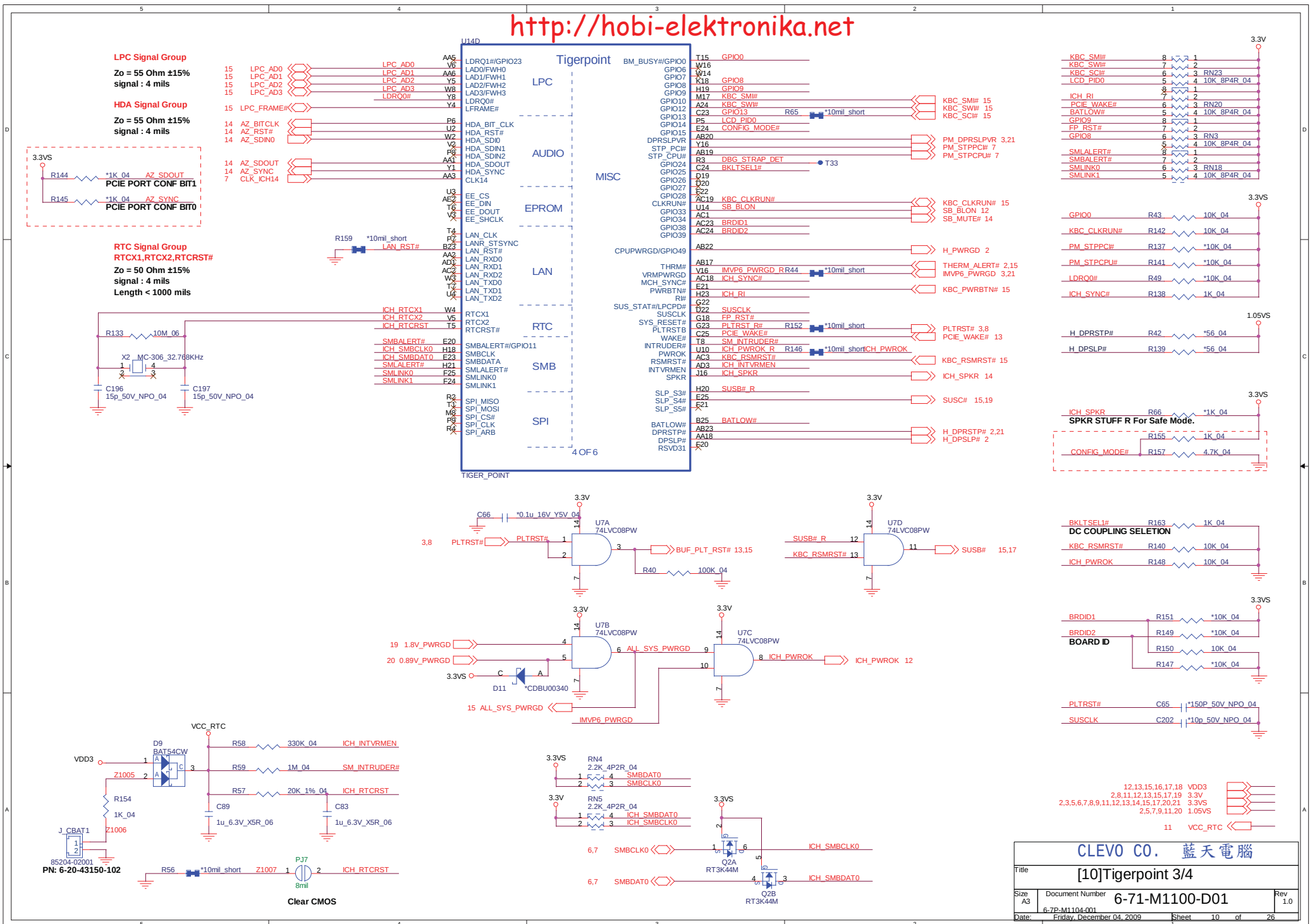
CLEVO C0. 藍天電腦			
Title [07]CLOCK GENERATOR			
Size A3	Document Number 6-71-M1100-D01	Rev 1.0	
Date: Friday, December 04, 2009	Sheet 7	of 26	



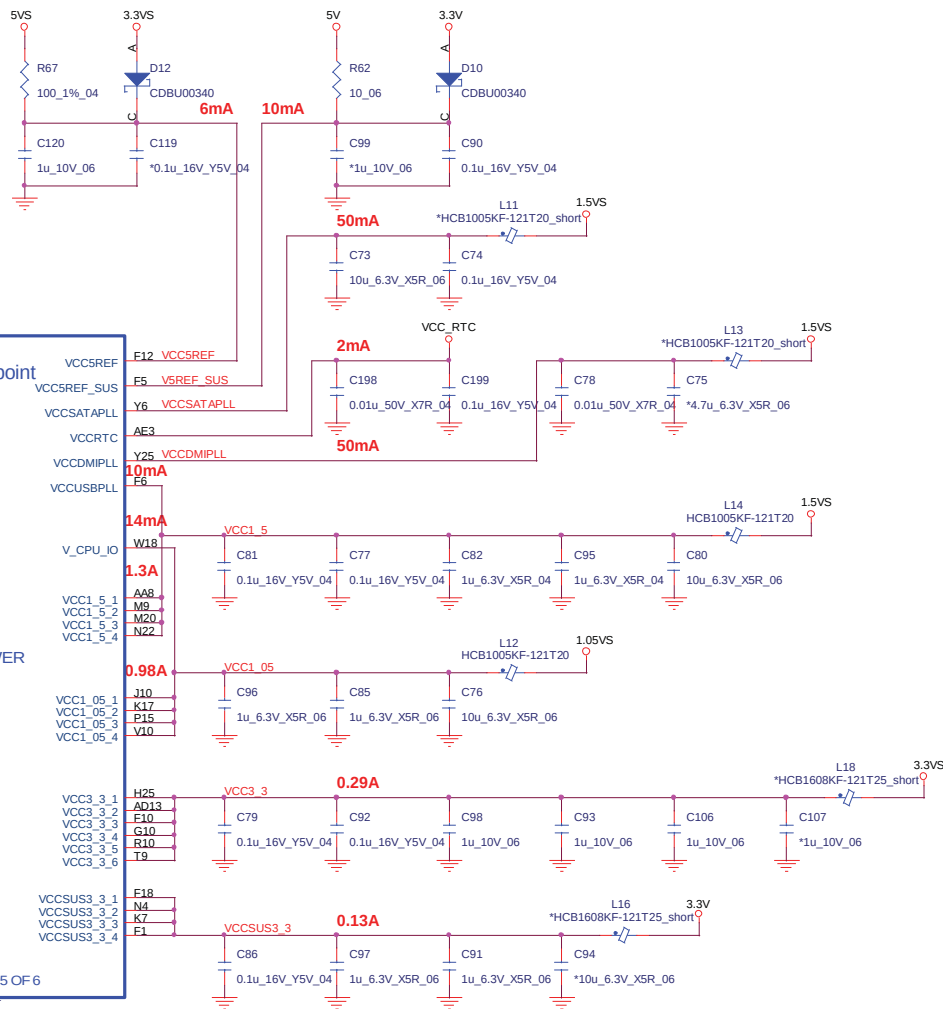
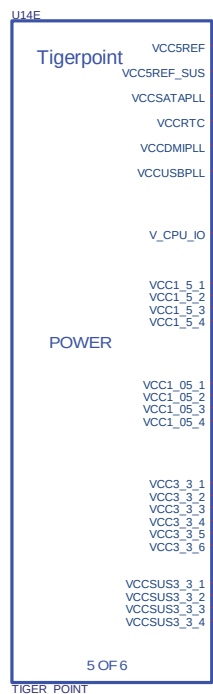
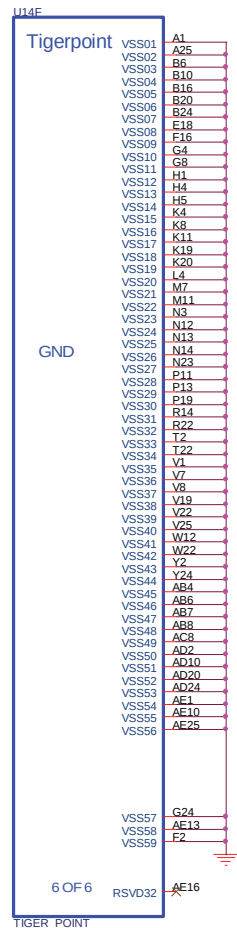


2,3,5,6,7,8,10,11,12,13,14,15,17,20,21 3.3VS
 2,5,7,10,11,20 1.05VS

CLEVO C0. 藍天電腦			
Title [09]Tigerpoint 2/4			
Size A3	Document Number 6-71-M1100-D01	Rev 1.0	
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CLEVO C0. 藍天電腦			
Title [10]Tigerpoint 3/4			
Size A3	Document Number 6-71-M1100-D01	Rev 1.0	
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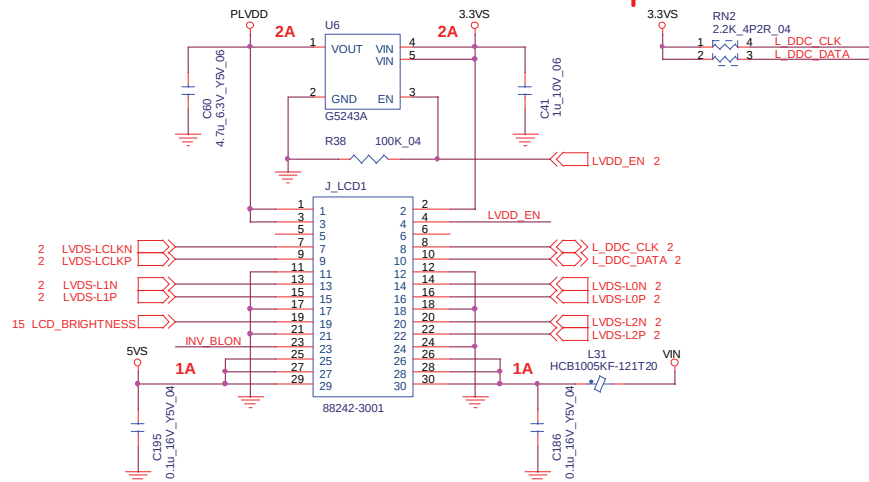


13,17,18,19,20,21 5V
12,13,14,15,17 5VS
2,8,10,12,13,15,17,19 3.3V
2,3,5,6,7,8,9,10,12,13,14,15,17,20,21 3.3VS
5,8,20 1.5VS
2,5,7,9,10,20 1.05VS
10 VCC_RTC

CLEVO C0. 藍天電腦

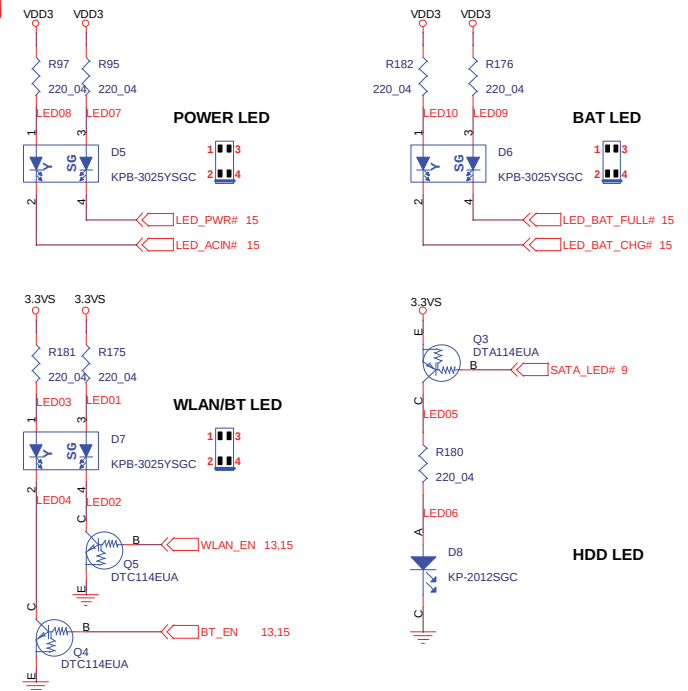
Title [11]Tigerpoint 4/4		
Size A3	Document Number 6-71-M1100-D01	Rev 1.0
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PANEL

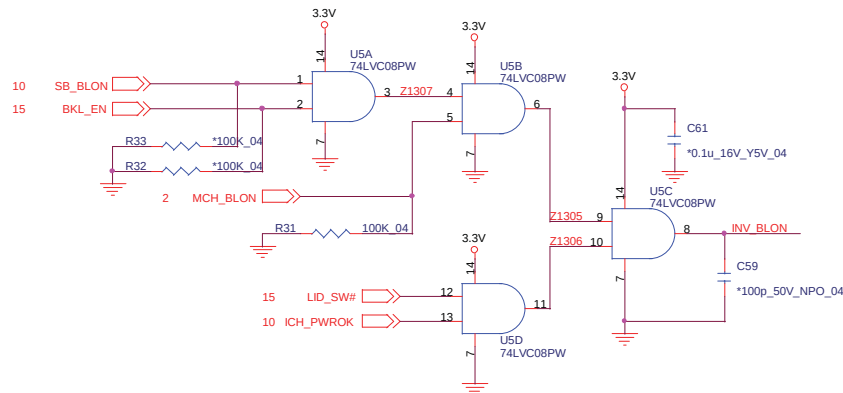


<http://hobi-elektronika.net>

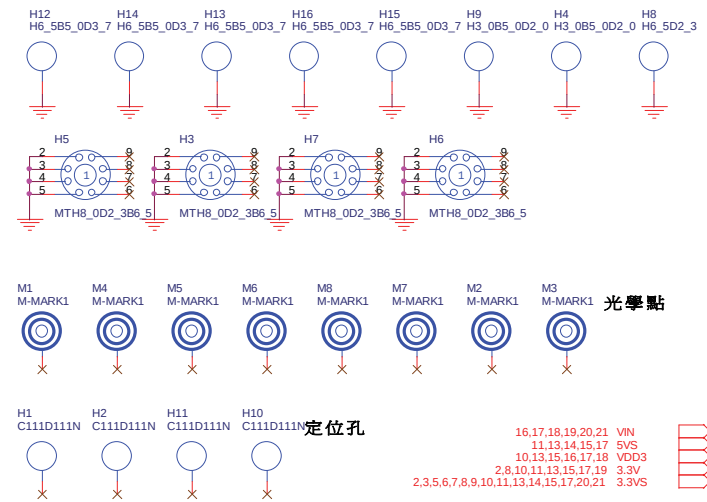
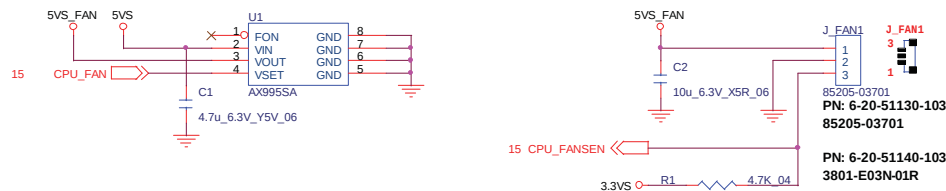
LED



BACKLIGHT ON CONTROL



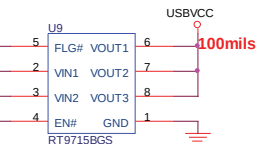
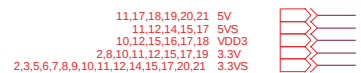
FAN CONTROL



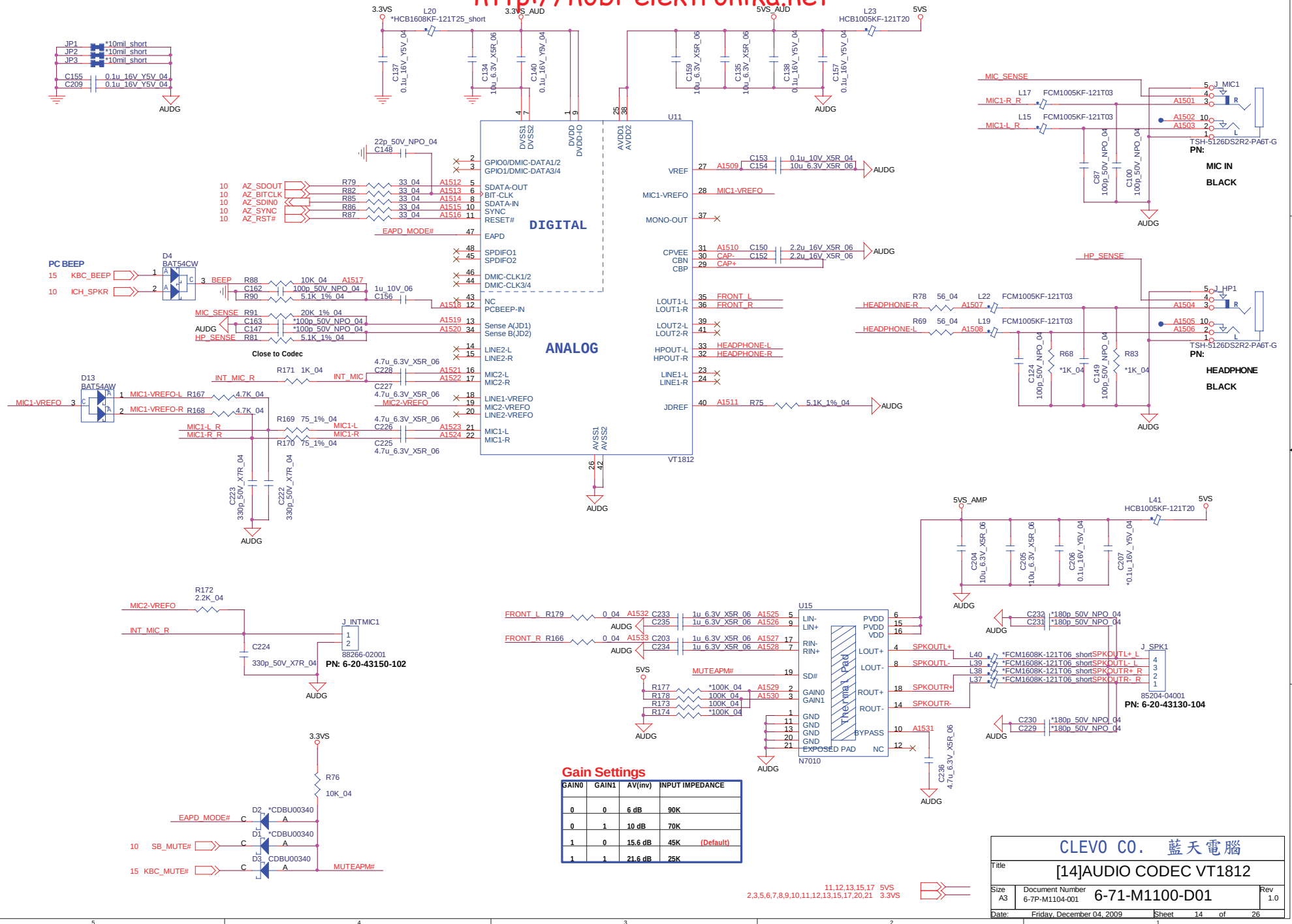
CLEVO C0. 藍天電腦

Title			
[12]PANEL,LED,FAN			
Size	Document Number	Rev	
A3	6-7P-M1104-001	1.0	
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<http://hobi-elektronika.net>

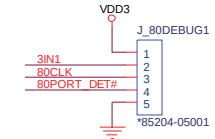
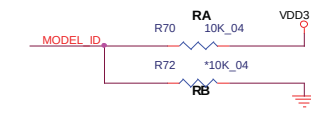


CLEVO CO. 藍天電腦			
Title [13]USB,WLAN,HDD			
Size A3	Document Number 6-7P-M1104-001	6-71-M1100-D01	Rev 1.0
Date:	Friday, December 04, 2009	Sheet 13 of 26	

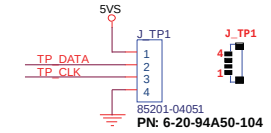


DEBUG CONN.

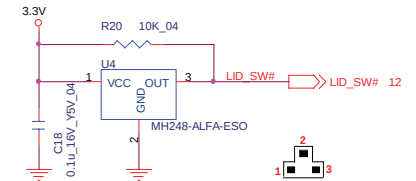
MODEL ID	RA	RB	
V1.0	10K	X	M810P



TP CONN.

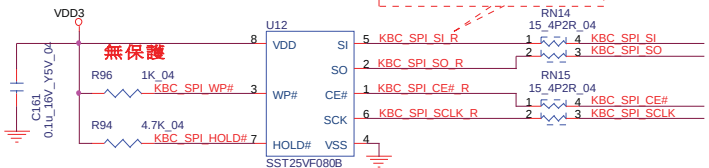


LID SWITCH IC



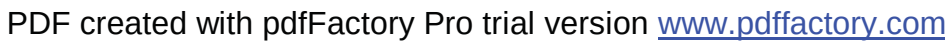
8Mbit

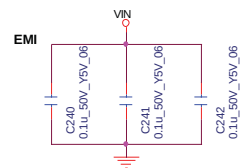
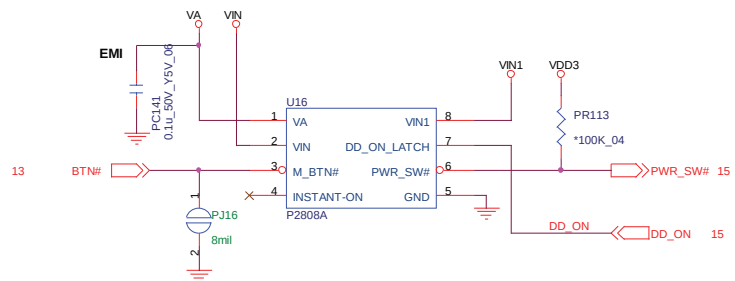
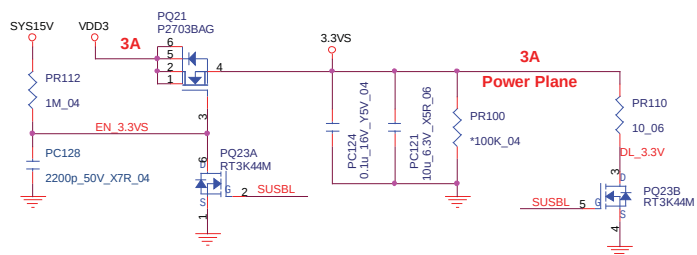
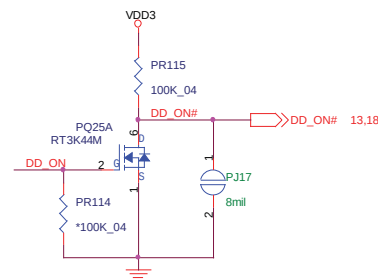
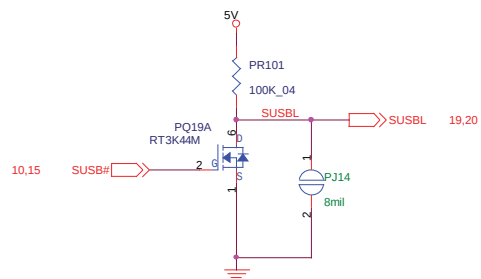
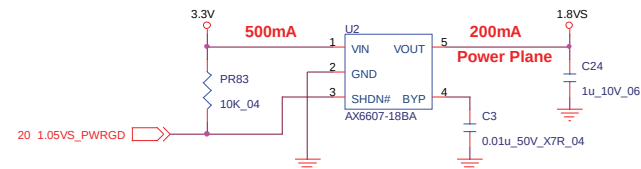
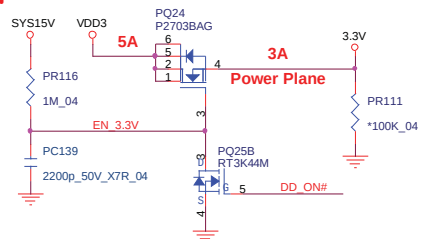
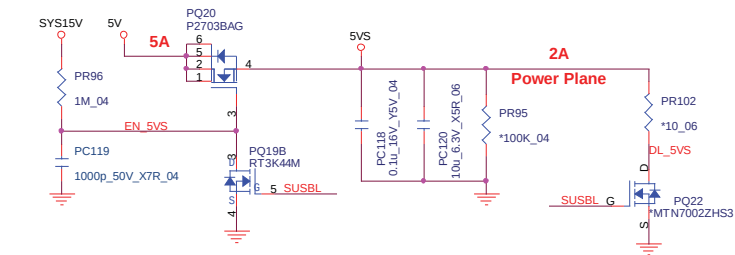
KBC_SPI * R = 0.1"-0.5"



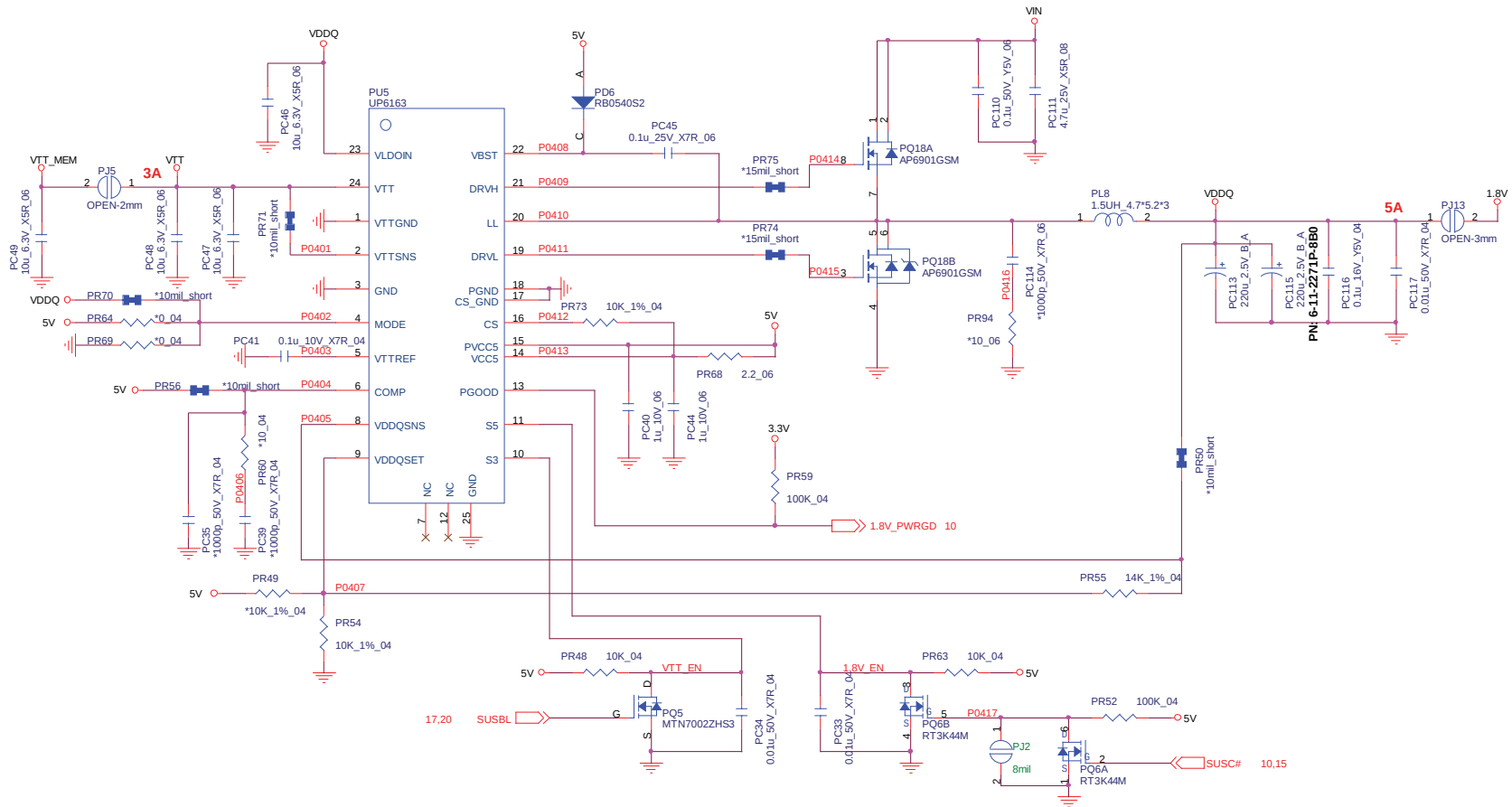
CLEVO CO. 藍天電腦

Title			
[15]KBC-ITE IT8502E-J			
Size	Document Number	Rev	
A3	6-7P-M1104-001	1.0	
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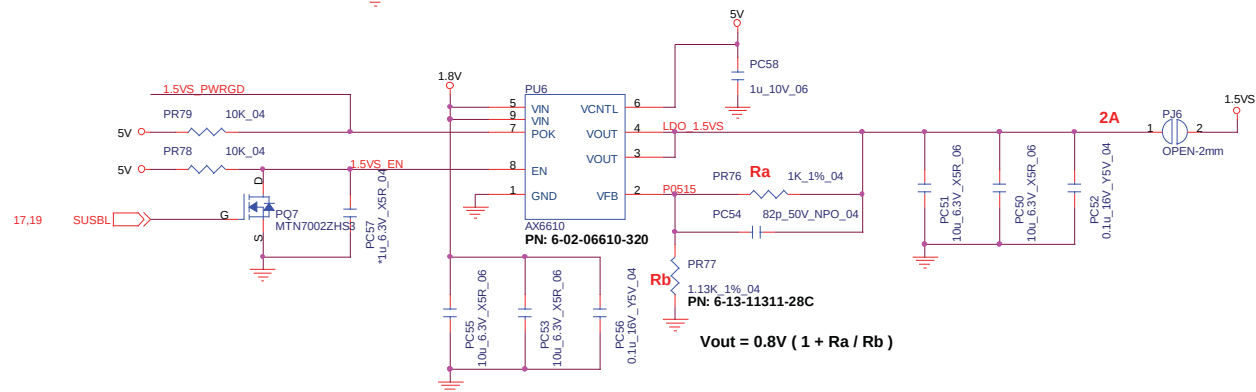
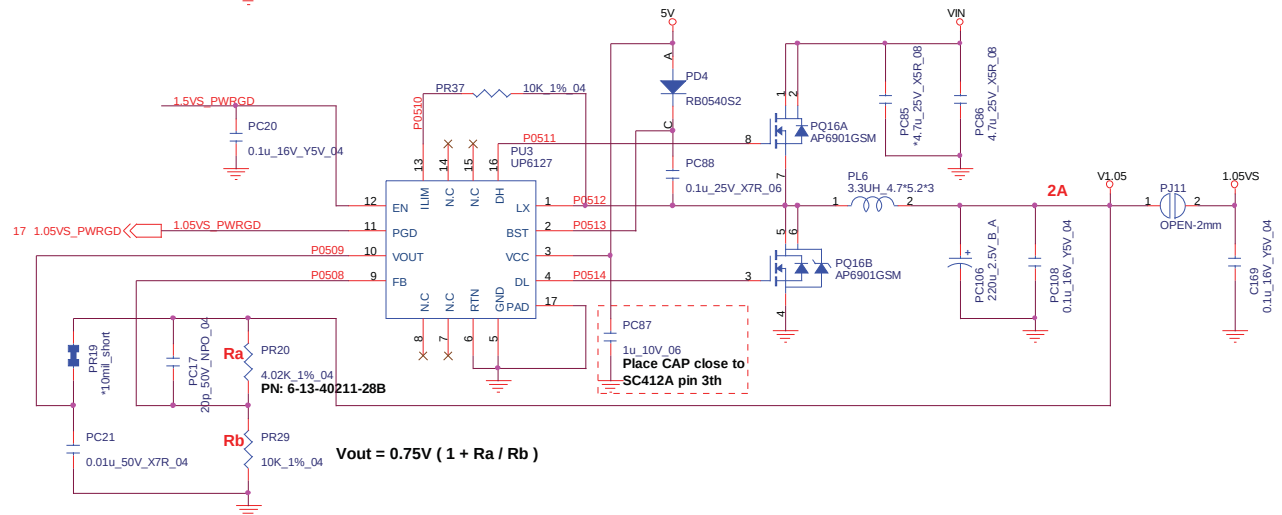
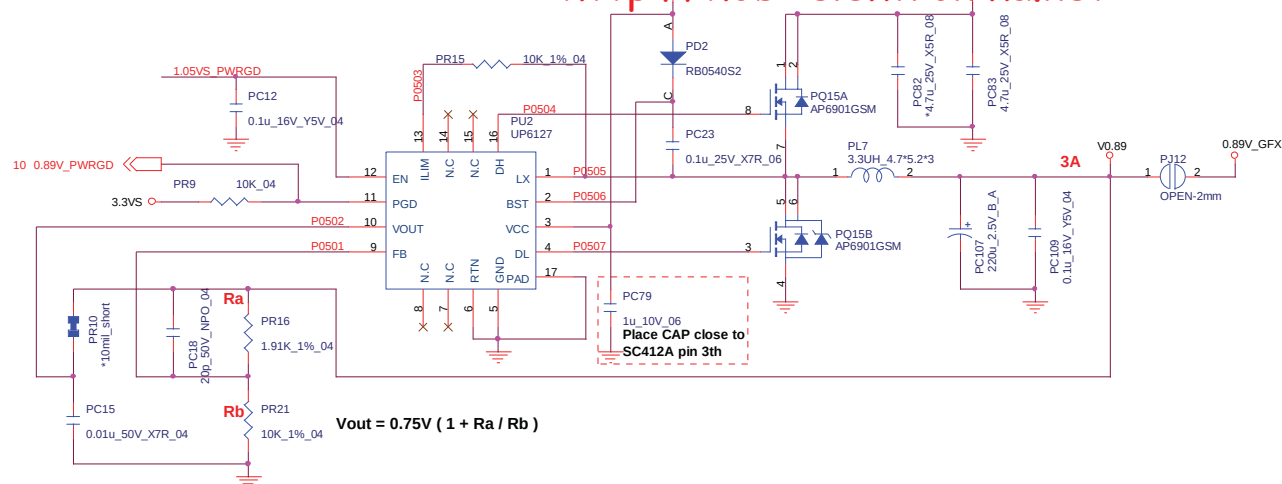
CLEVO C0. 藍天電腦			
Title [17]PWR SW,1.8VS,3V,3VS,5VS			
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12,16,17,18,20,21 VIN
11,13,17,18,20,21 5V
2,8,10,11,12,13,15,17 3.3V
4,5,6,20 1.8V
6 VTT_MEM

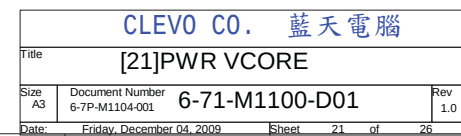
CLEVO C0. 藍天電腦

Title				[19]PWR 1.8V,0.9V				
Size A3		Document Number 6-7P-M1104-001			6-71-M1100-D01		Rev 1.0	
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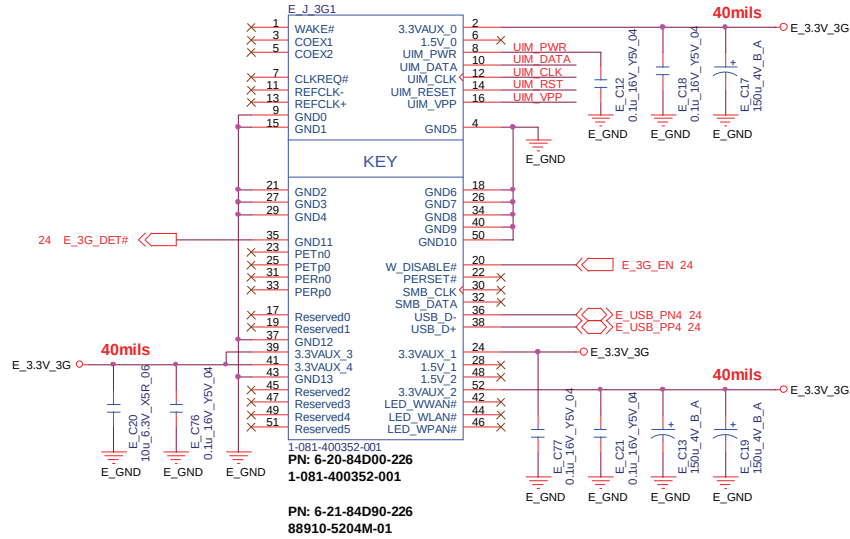


12,16,17,18,19,21	VIN
11,13,17,18,19,21	5V
11,12,13,14,15,17	5V
2,8,10,11,12,13,15,17,19	3.3V
2,3,5,6,7,8,9,10,11,12,13,14,15,17,21	3.3V
4,5,6,19	1.8V
2,5,7,9,10,11	1.05VS
5,8,11	1.5VS
5	0.89V_GFX

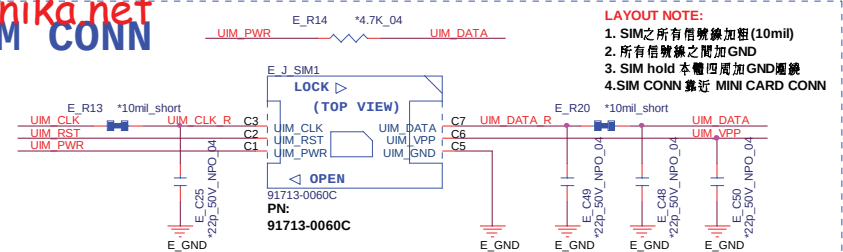
CLEVO C0. 藍天電腦		
Title [20]PWR 0.89V,1.05VS,1.5VS		
Size A3	Document Number 6-71-M1100-D01	Rev 1.0
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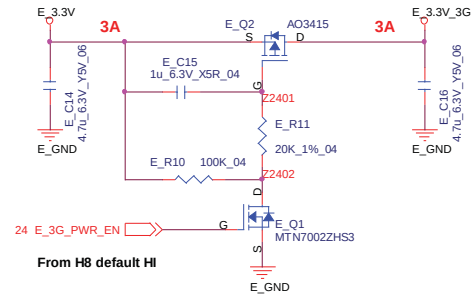
3G CARD



SIM CONN

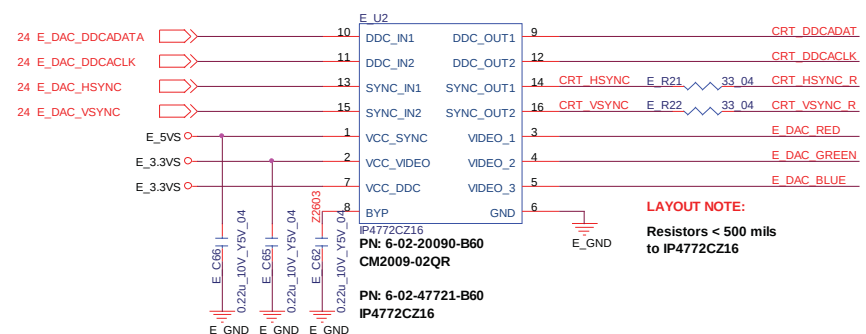
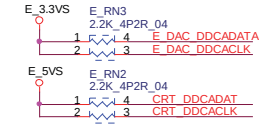
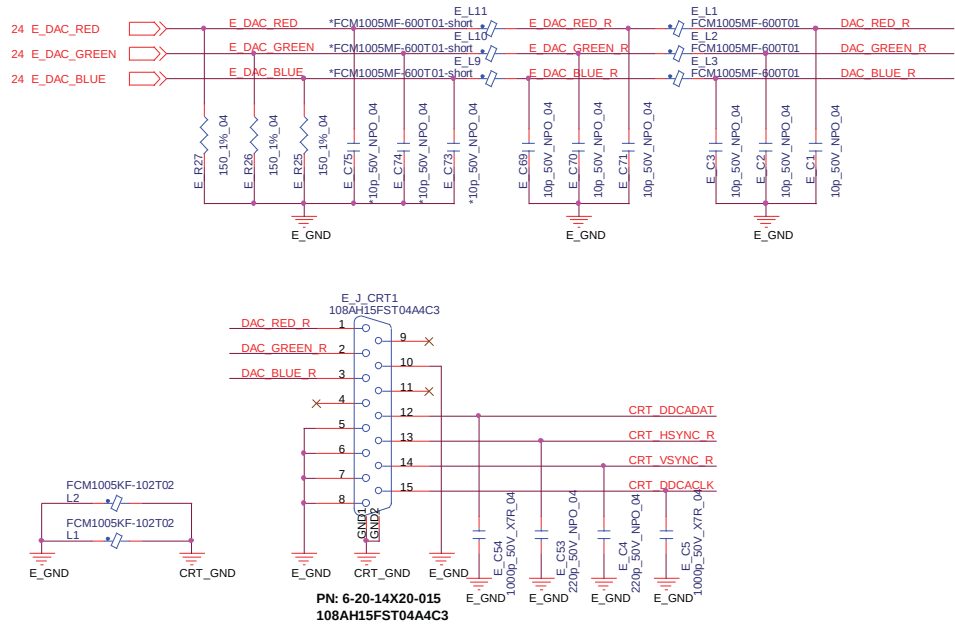


3G POWER



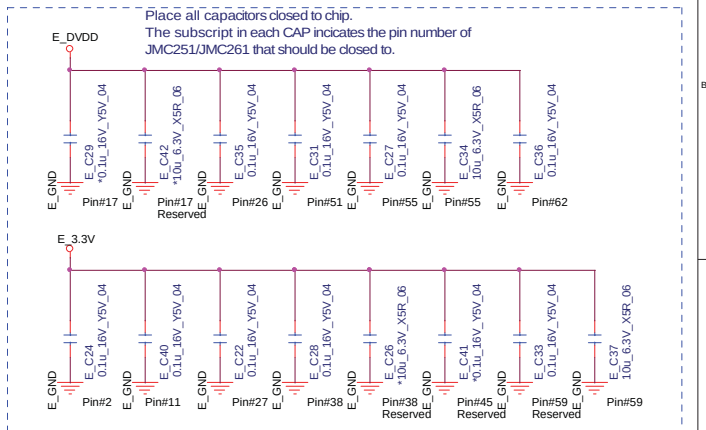
CRT

CRT DAC Signal Group
CRT_RED, CRT_GREEN, CRT_BLUE
VGA RGB resistors colse to Connector
Zo = 55 Ohm ±15%
signal : 4 mils
length < 500 mils

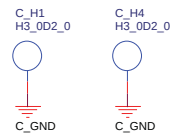
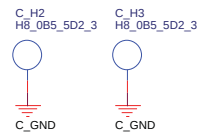
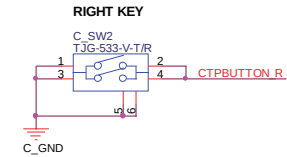
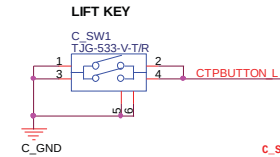
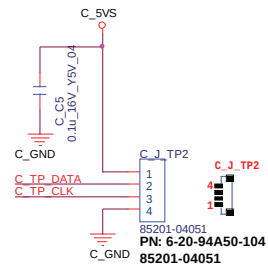
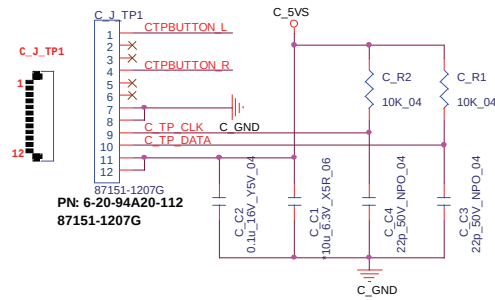


CLEVO C0. 藍天電腦			
Title [22]3G CARD,CRT			
Size A3	Document Number 6-7P-M1104-001	6-71-M1101-D01	Rev 1.0
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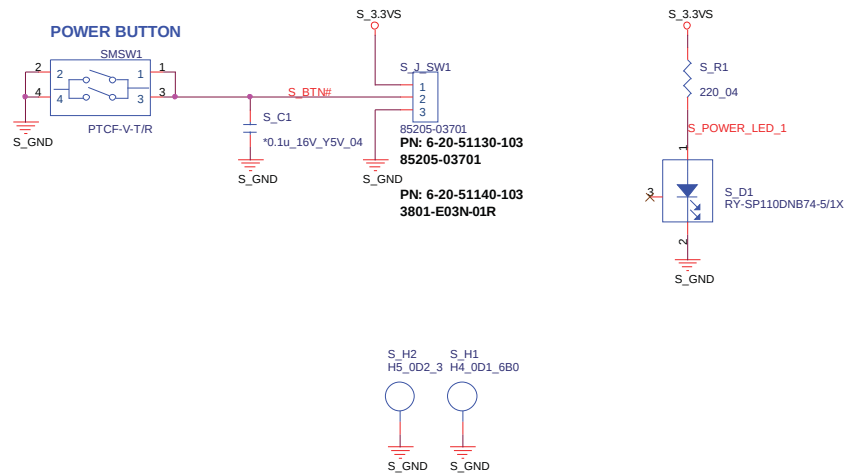
<http://hobi-elektronika.net>



CLEVO CO. 藍天電腦			
Title [23]LAN,CARD READER(JMB261)			
Size A3	Document Number 6-7P-M1101-D01 6-7P-M1104-001	Rev 1.0	
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CLEVO C0. 藍天電腦			
Title [25]CLICK BOARD			
Size A3	Document Number 6-71-M1102-D01	Rev 1.0	
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CLEVO C0. 藍天電腦			
Title [26]POWER BOTTON BOARD			
Size A3	Document Number 6-7P-M1104-001	6-71-M110S-D01	Rev 1.0
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