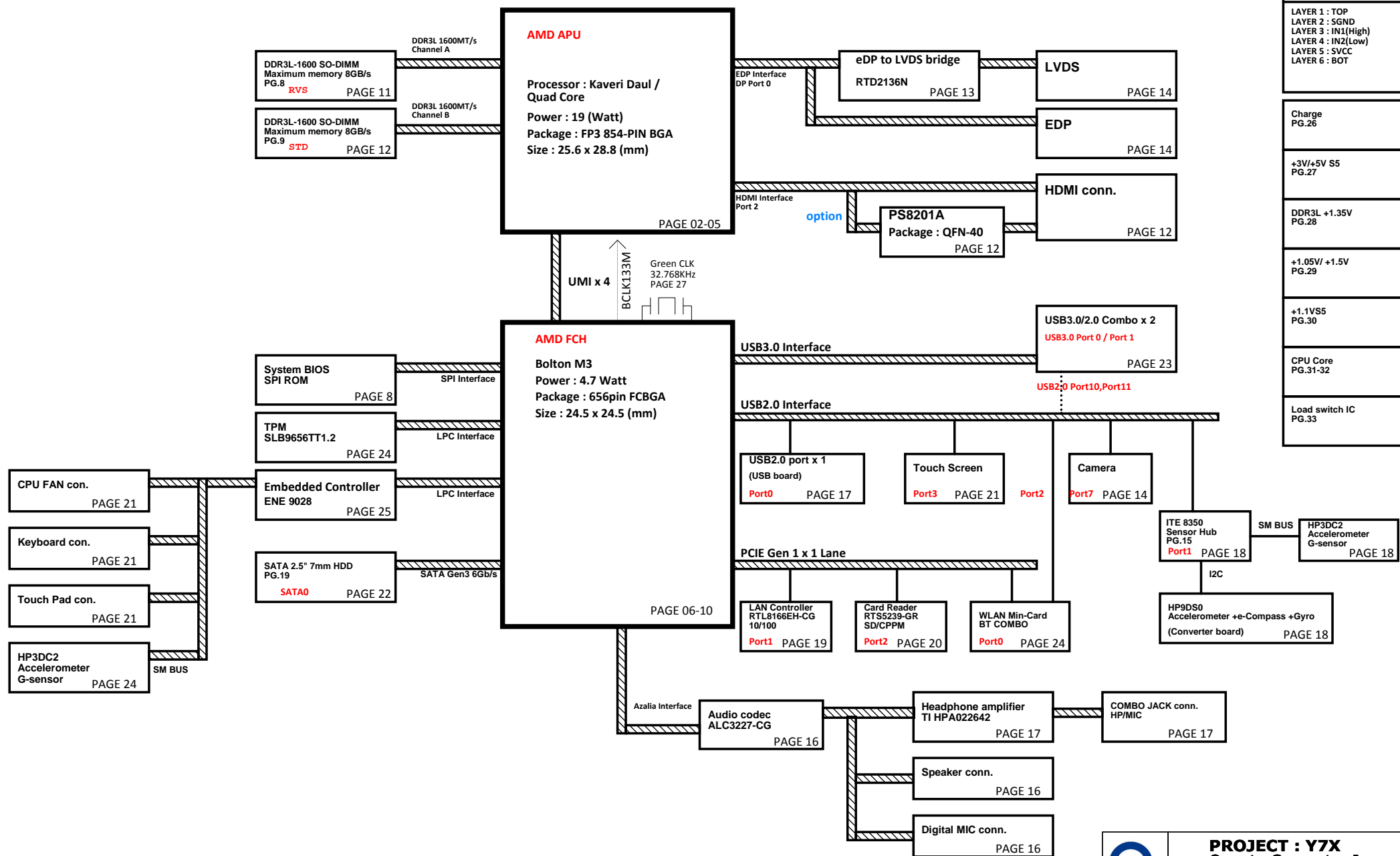
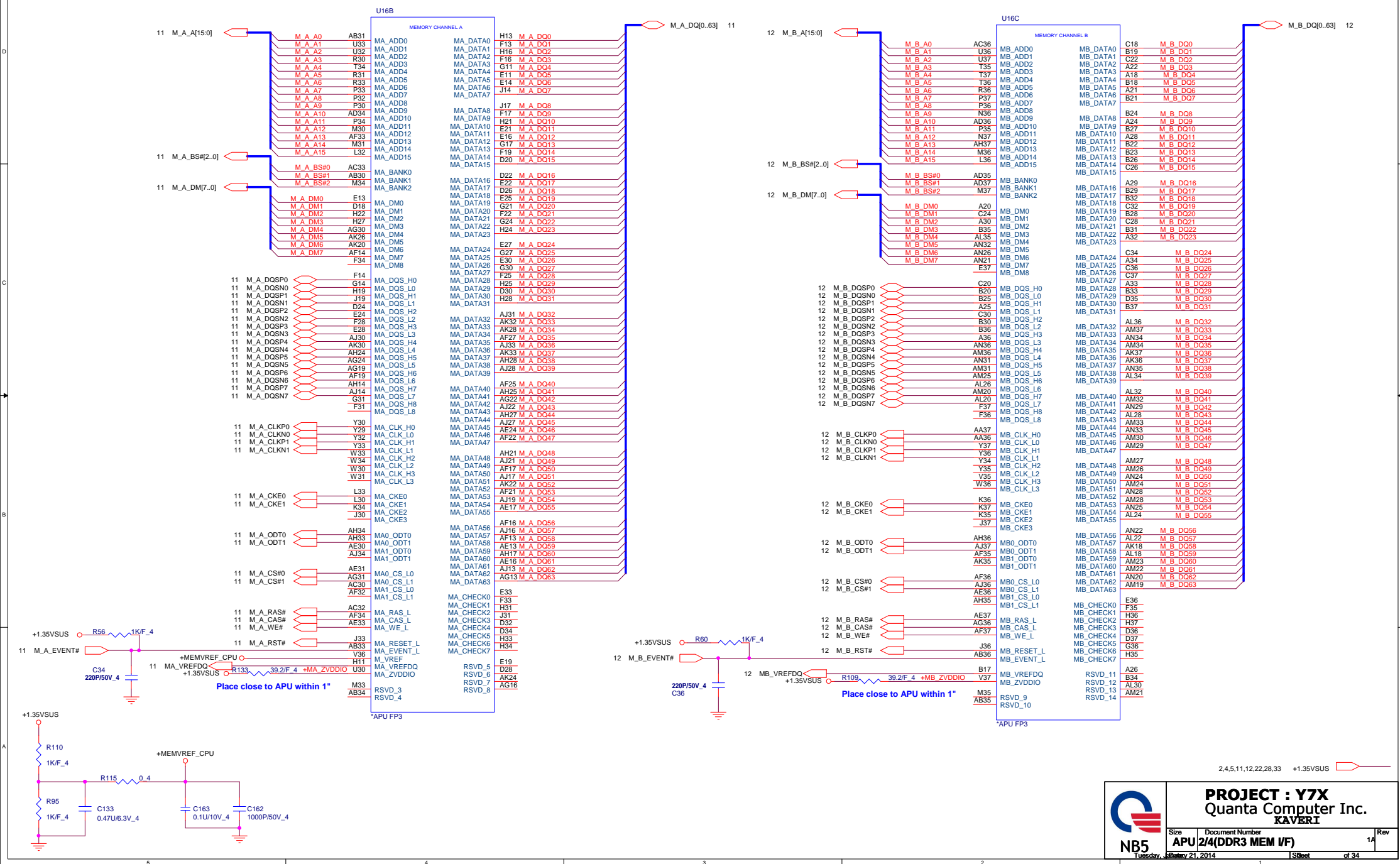
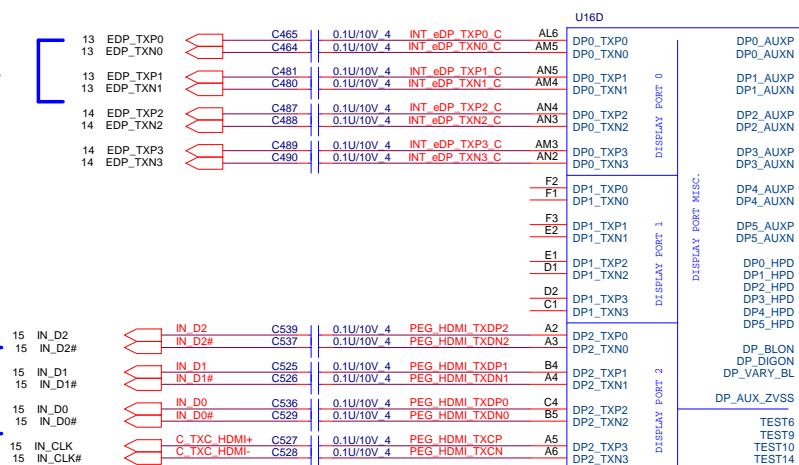


Y7X (HP Napa) AMD KAVERI Platform Block Diagram





DP0 output to
eDP to LVDS converter



4/19 HDMI change to DP2 for Comal.

DP2 output to
HDMI connector

note --HDMI P&N can not swap

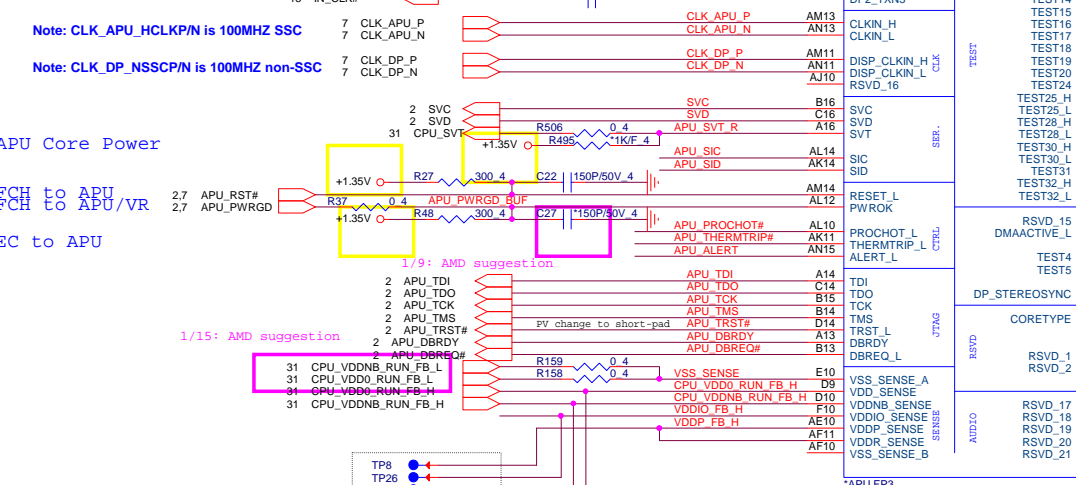
Note: CLK APU HCLKP/N is 100MHZ SSC

Note: CLK_DP_NSSCP/N is 100MHZ non-SSC

APU Core Power

FCH to APU

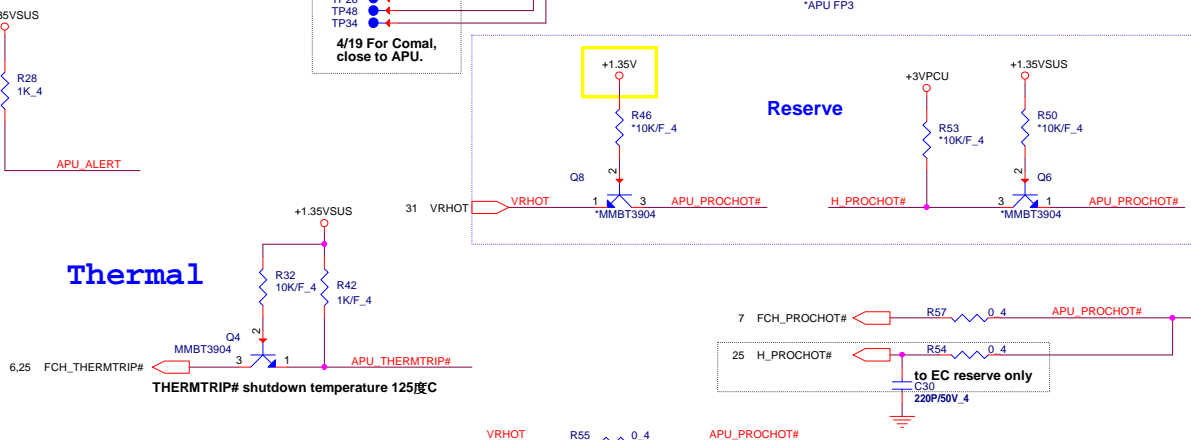
EC to APU



**4/19 For Comal,
close to APU.**

Reserve

Thermal



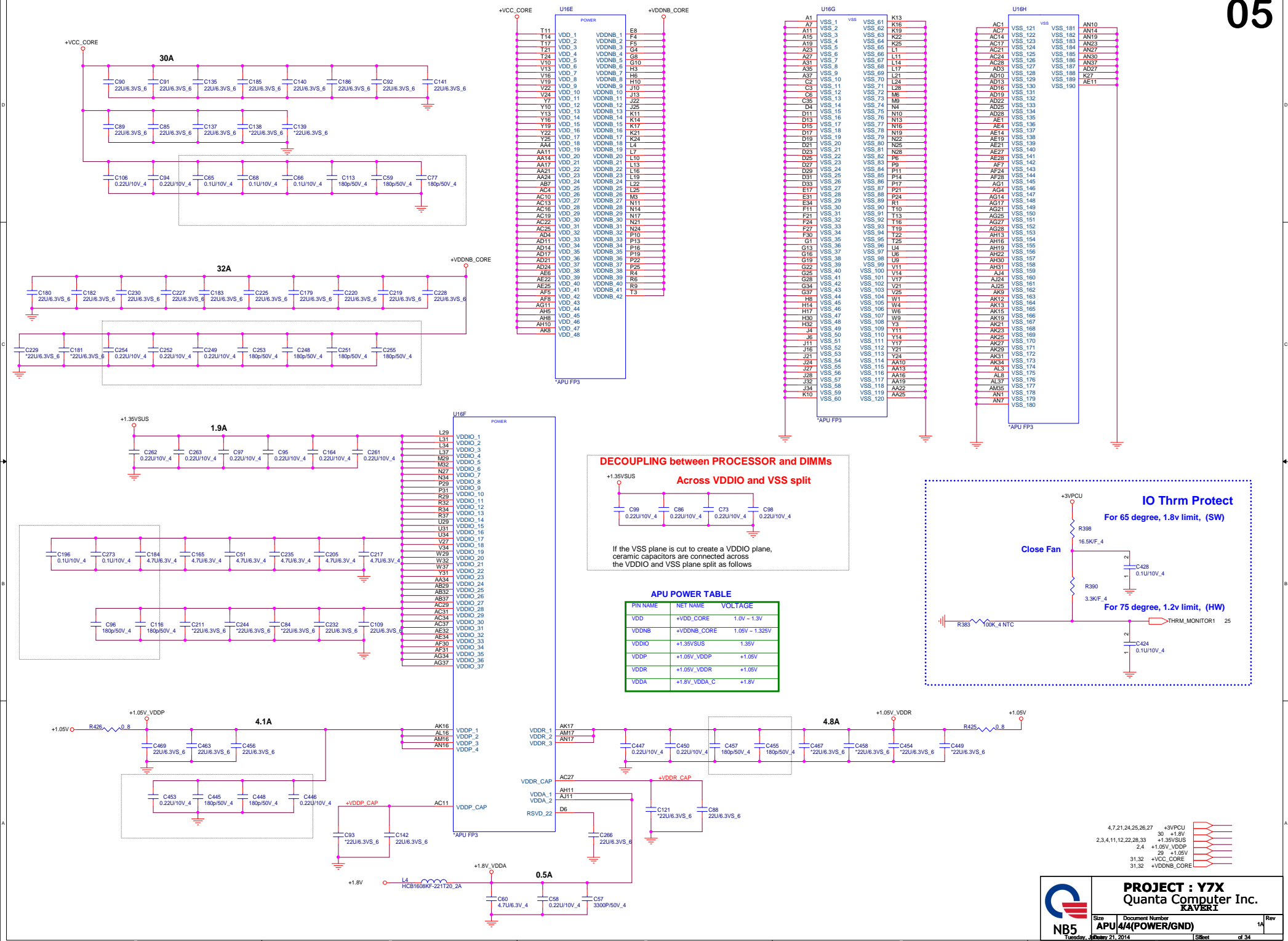
3

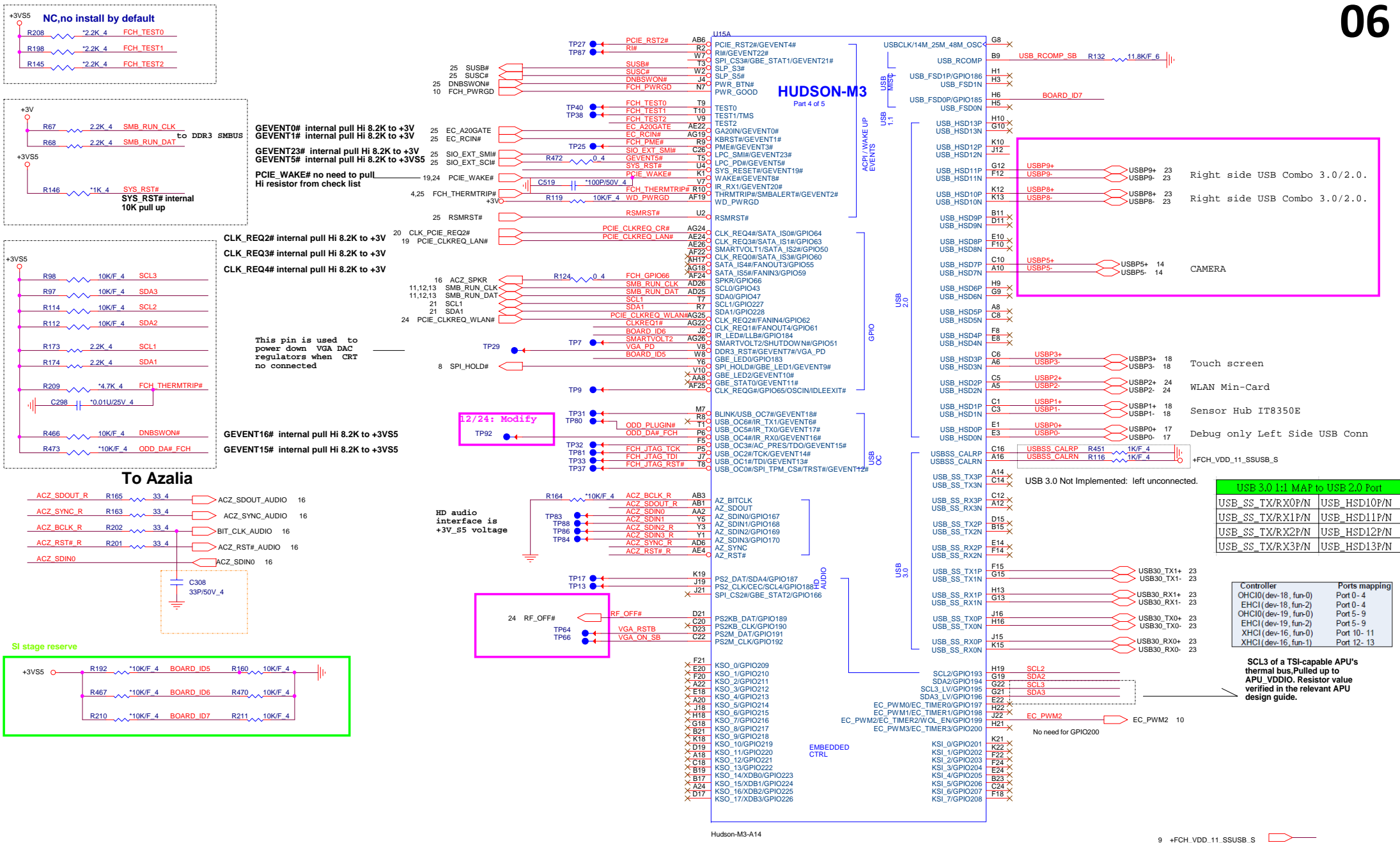


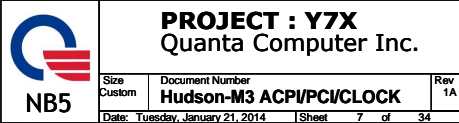
PROJECT : Y7X
Quanta Computer Inc.
KAVERT

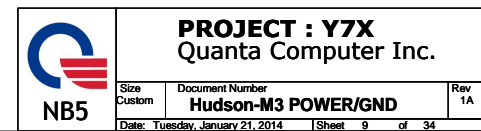
Size	Document Number	Rev
APU	3/4(Display/Misc/HDT)	1A
Pages: 24	Sheet	of 24

4



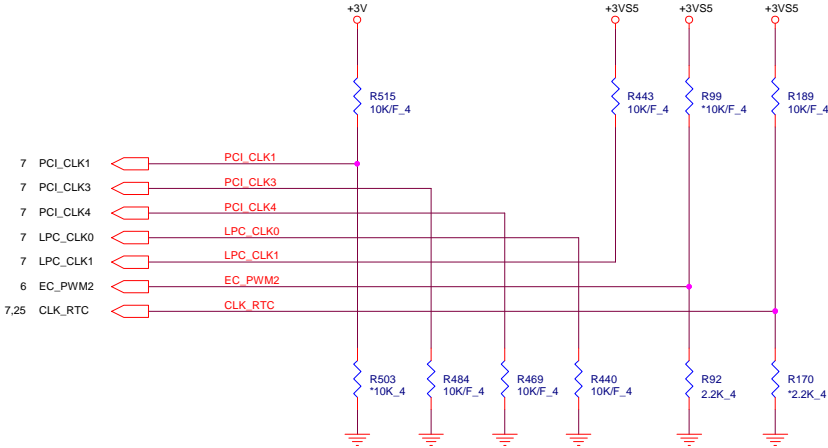






STRAPS PINS

OVERLAP COMMON PADS WHERE POSSIBLE FOR DUAL-OP RESISTORS.

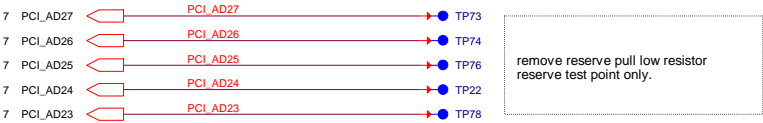


REQUIRED STRAPS

	-----	PCI_CLK1	-----	PCI_CLK3	PCI_CLK4	LPC_CLK0	LPC_CLK1	EC_PWM2	CLK_RTC
PULL HIGH	-----	ALLOW PCIE Gen2 DEFAULT	-----	USE DEBUG STRAP	non Fusion CLOCK MODE	AMD internal EC ENABLED	CLKGEN ENABLED DEFAULT	LPC ROM	S5 PLUS MODE ENABLED DEFAULT
PULL LOW	-----	FORCE PCIE Gen1	-----	IGNORE DEBUG STRAP DEFAULT	FUSION CLOCK MODE DEFAULT	EC DISABLED DEFAULT	CLKGEN DISABLED	SPI ROM DEFAULT	S5 PLUS MODE DISABLED

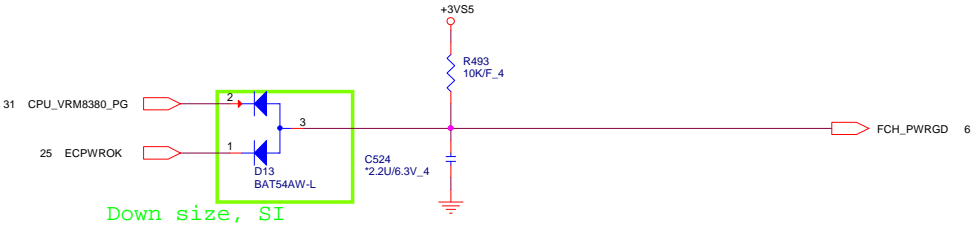
DEBUG STRAPS

FCH has 15K Internal Pull Up for PCI_AD[27:23]

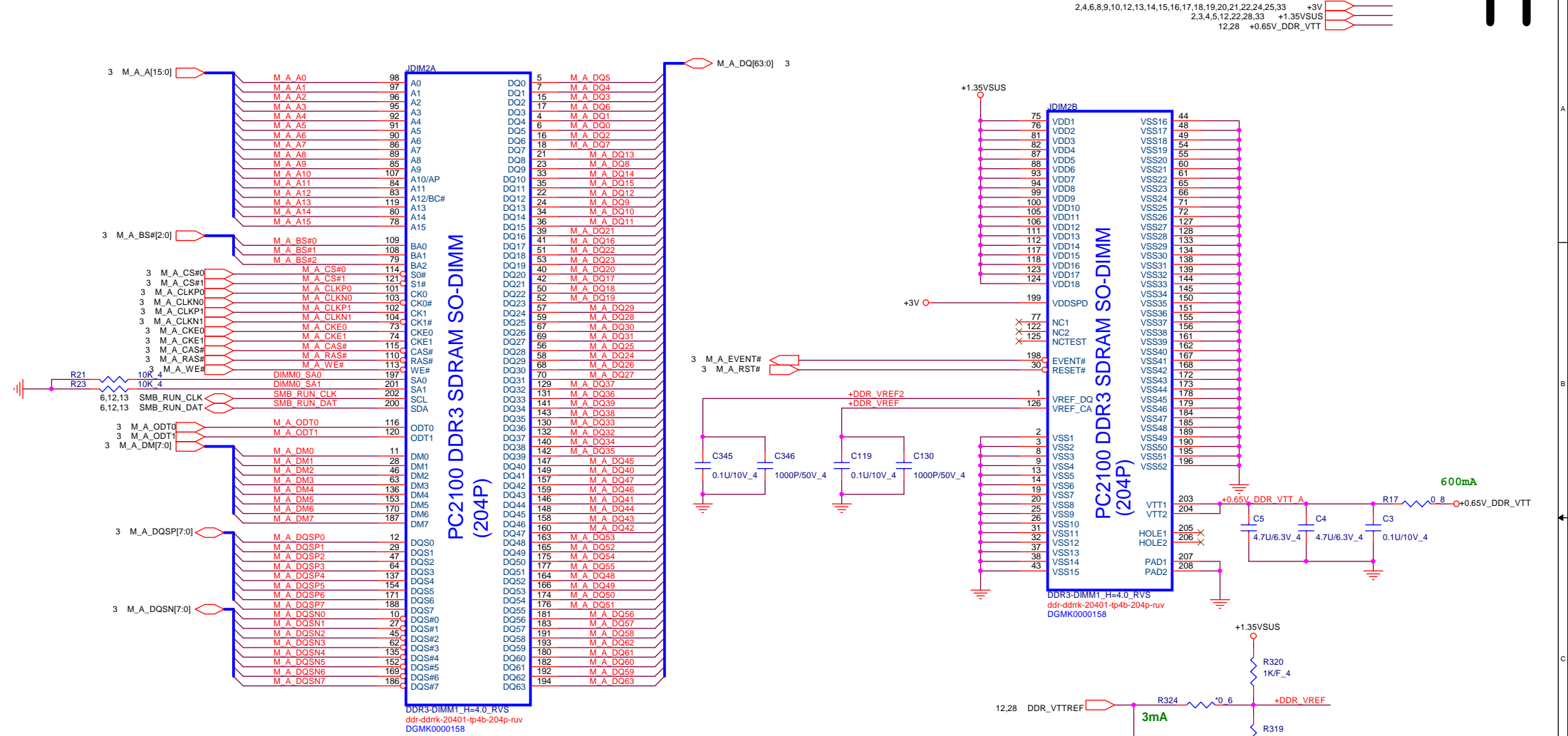


	PCI_AD27	PCI_AD26	PCI_AD25	PCI_AD24	PCI_AD23
PULL HIGH	USE PCI PLL DEFAULT	DISABLE ILA AUTORUN DEFAULT	USE FC PLL DEFAULT	USE DEFAULT PCIE STRAPS DEFAULT	DISABLE PCI MEM BOOT DEFAULT
PULL LOW	BYPASS PCI PLL	ENABLE ILA AUTORUN	BYPASS FC PLL	USE EEPROM PCIE STRAPS	ENABLE PCI MEM BOOT

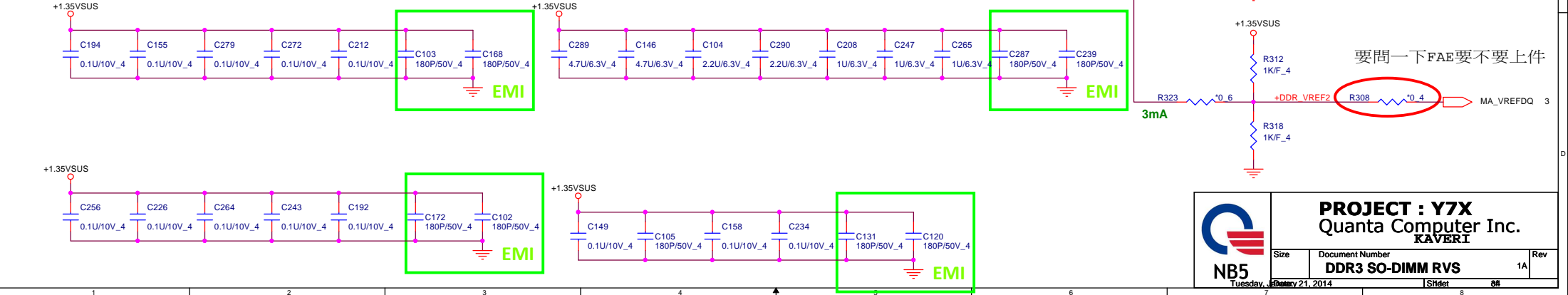
FCH_PWRGD

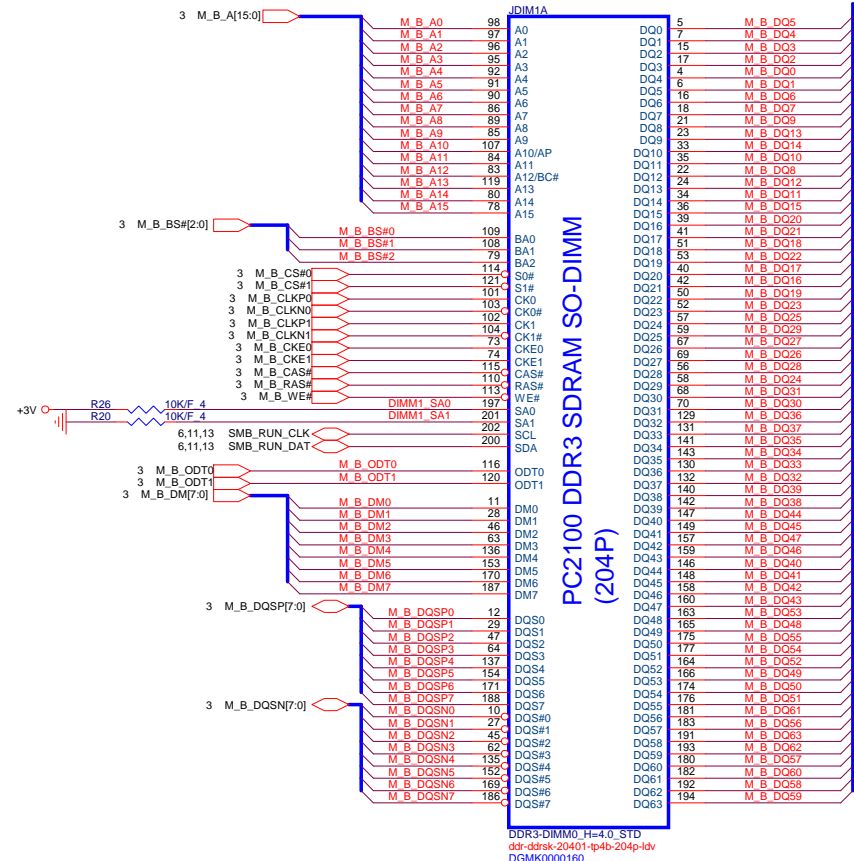


Down size, SI

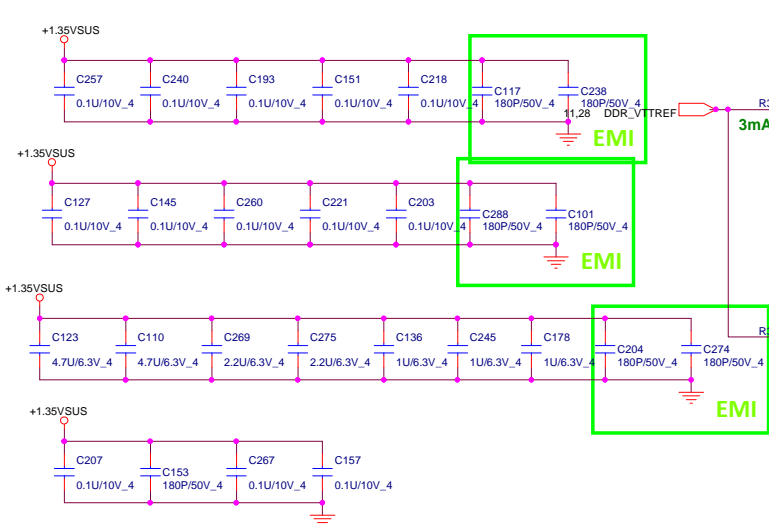


Place these Caps near So-Dimm A

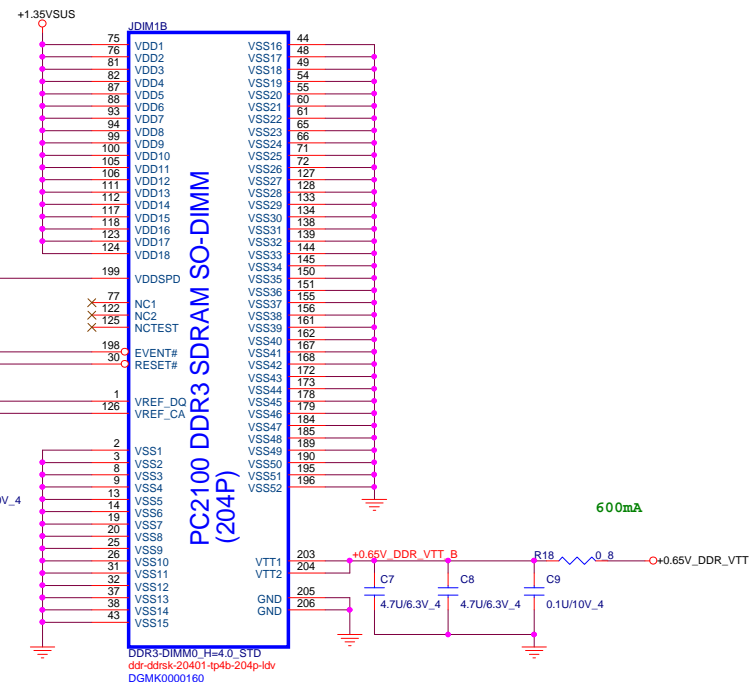
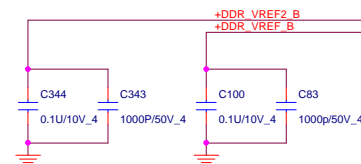
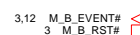




Place these Caps near So-Dimm B

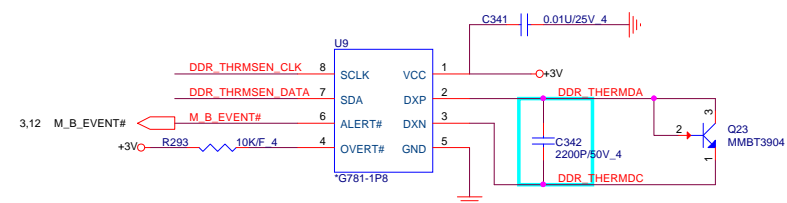


connector 料號 & footprint 確認OK

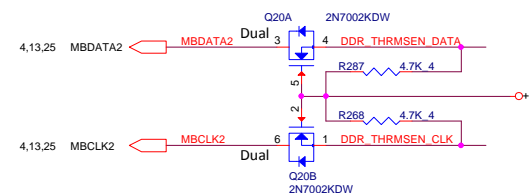


Local Thermal Sensor

DDR3 Thermal Sensor



If use internal thermal IC, C728 use 0ohm.



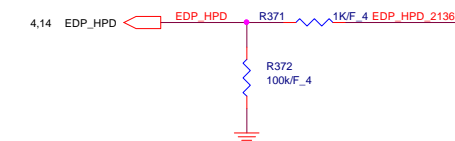
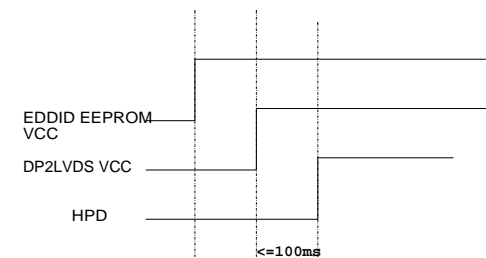
要問一下FAE要不要上件

Main:AL000781039	G781-1P8(9Ah)
2nd:AL001412005	EMC1412-2-ACZL-TR(9Ah)
Main:AL001412003	EMC1412-1-ACZL-TR(98h)
2nd:AL000431014	TMP431ADGKR(98h)

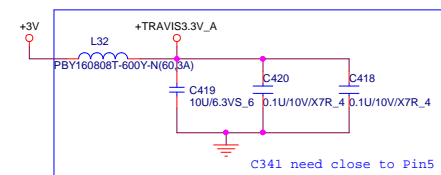
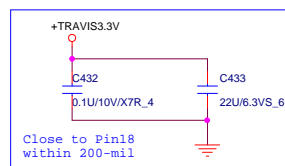
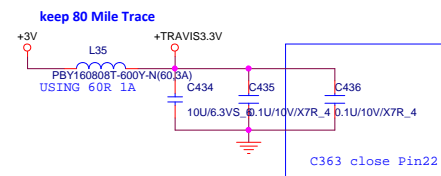
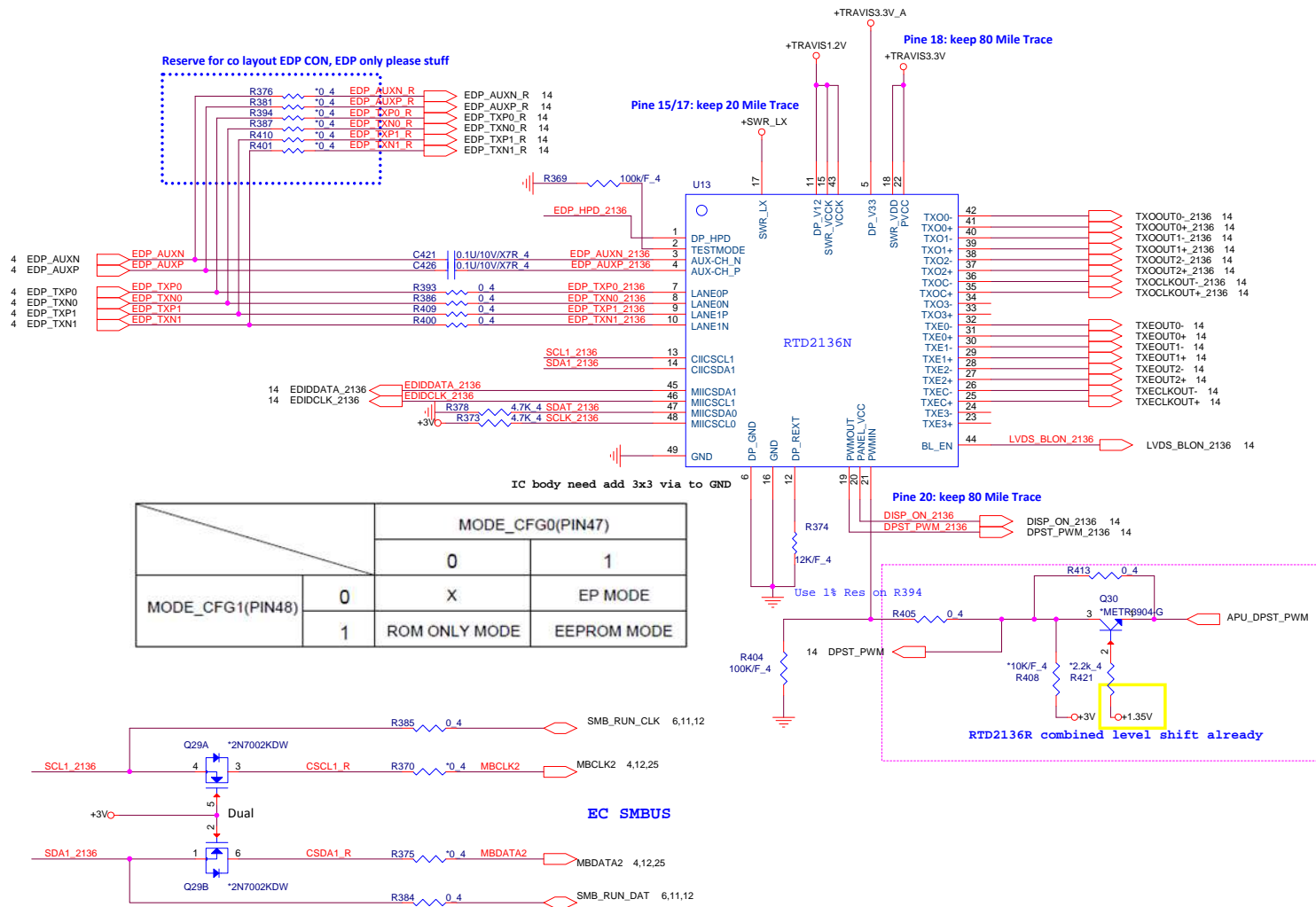
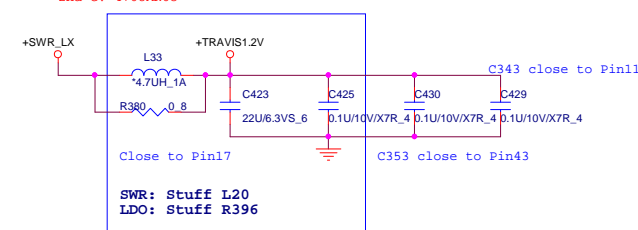


PROJECT : Y7X
Quanta Computer Inc.
KAVERI

Size	Document Number	Rev
	DDR3 SO-DIMM STD	1A
© 2014	SMC	of 24



L20: need use CV-4709MN00 for Vendor suggestion
2nd CV-4708MN03



2,4,6,8,9,10,11,12,14,15,16,17,18,19,20,21,22,24,25,33 +3V
2,4,15,16,24,29 +1.5V

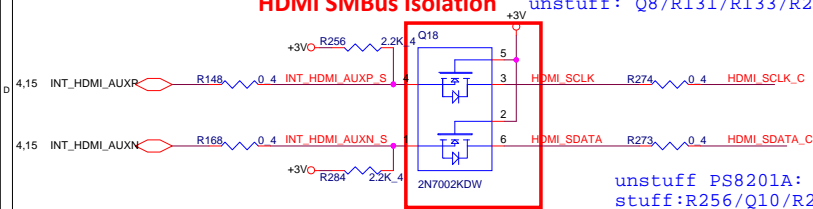


PROJECT : Y7X
Quanta Computer Inc.

Size Custom	Document Number LVDS converter RTD2136	Rev 1A
Date: Tuesday, January 21, 2014		Sheet 13 of 34

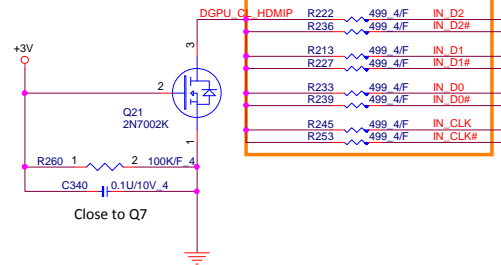
HDMI Conn.

HDMI SMBus Isolation



Close to HDMI connector

Check list recommend 499ohm



unstuff PS8201A:

stuff: R256/Q10/R268/R294/R296

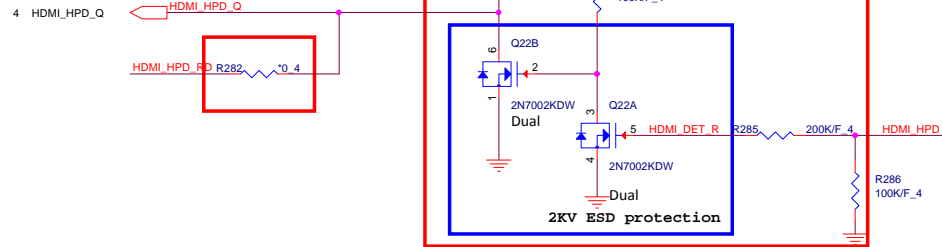
unstuff: R258

stuff PS8201A:

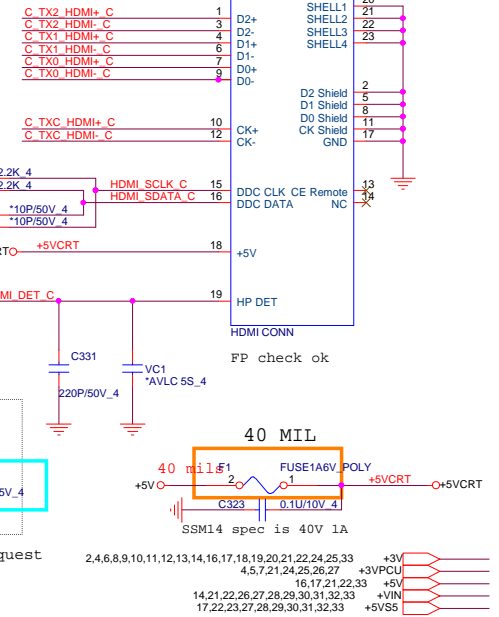
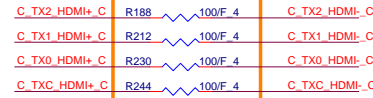
unstuff: R256/Q10/R268/R294/R296

stuff: R258

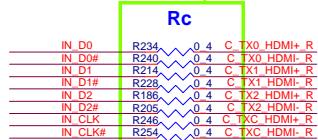
HDMI HPD SENSE



PV EMI Solution



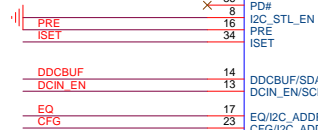
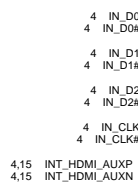
Ra & Rc need place close

HDMI re-driver IC
stuff Ra,Rb , unstuff Rc,RdHDMI direct
unstuff Ra,Rb , stuff Rc,Rd

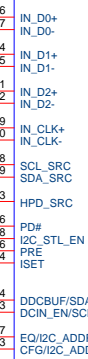
Rb & Rd need place close



HOST

R250
4.99K/F_4

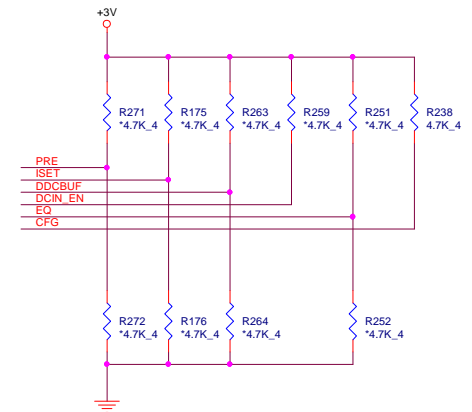
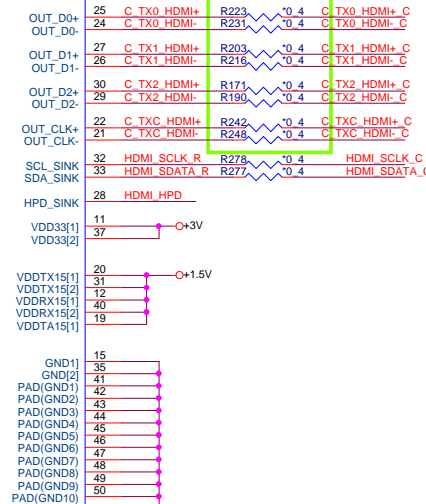
U5



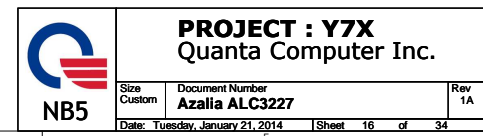
PS8201A

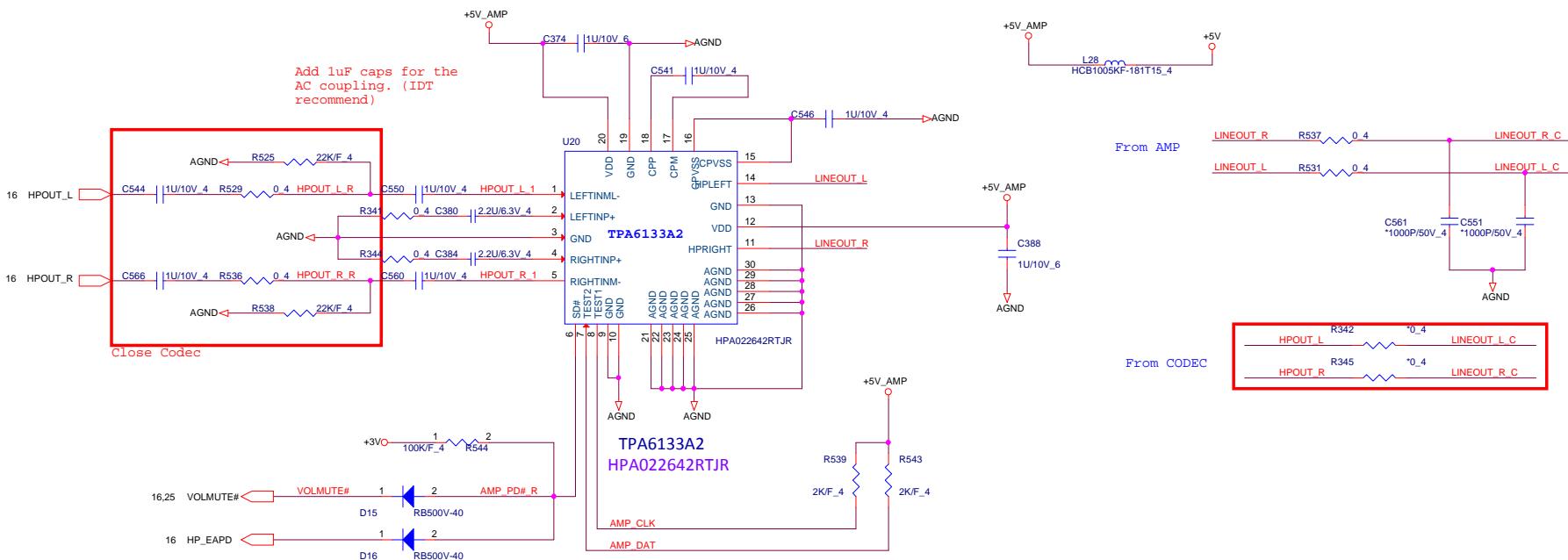
Rb

DEVICE

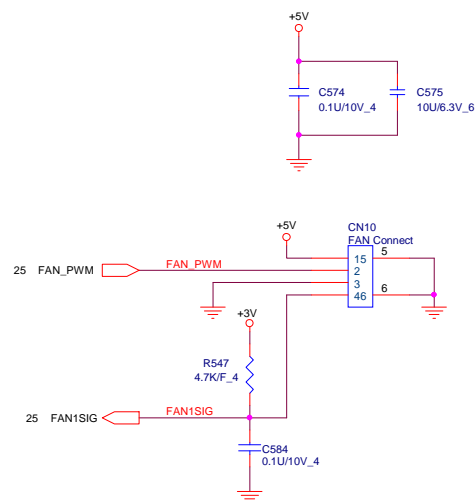
PROJECT : Y7X
Quanta Computer Inc.

Size	Document Number	Rev
Custom	LCD Connector (LVDS)	1A
Date: Tuesday, January 21, 2014	Sheet 15	of 34

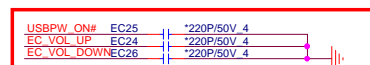




CPU FAN



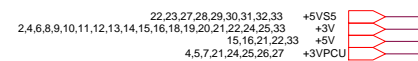
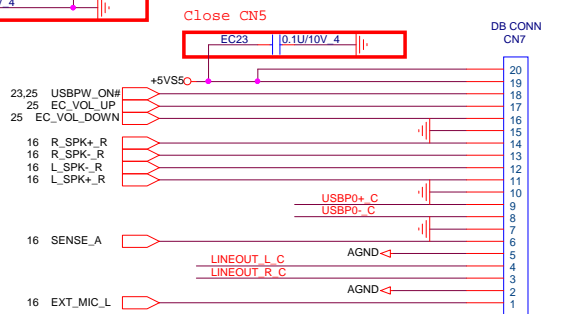
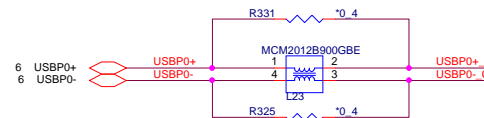
Close CN5



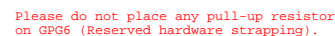
need check PN& FP

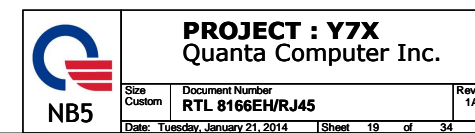
SPK
USB2.0

AUDIO COMBO JACK



	PROJECT : Y7X		
	Quanta Computer Inc.		
	Size Custom	Document Number	Rev 1A
	Date: Tuesday, January 21, 2014	HPA022642/Audio/USB2/FAN	Sheet 17 of 34





6 CLK_PCIE_REQ2# R364 10K 4 CLK_PCIE_REQ2# R

7 CARD_PCIE_RST# R363 0.4 CLK_PCIE_REQ2# R

Zdiff = 100 ohm
 2 PCIE_TXP3_CARD
 2 PCIE_TXN3_CARD
 7 CLK_PCIE_CARDP
 7 CLK_PCIE_CARDN
 2 PCIE_RXP3_CARD
 2 PCIE_RXN3_CARD
 C406 0.1U/10V_4
 C404 0.1U/10V_4
 PCIE_RXP3_CARD C
 PCIE_RXN3_CARD C

Please add 9 GND VIAs
 connection with thermal PAD

R351 need close to Chip

Close to chip pin

1/17: EMI

Close to chip pin

CARD READER

CLOSE CONN

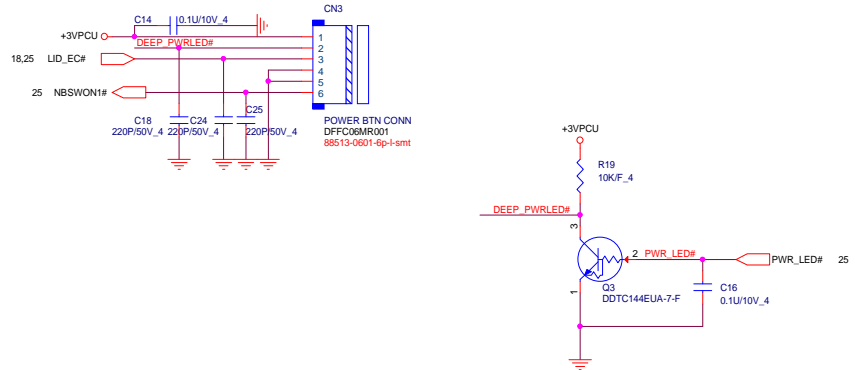
pin define ok / FP ok

1/17: EMI

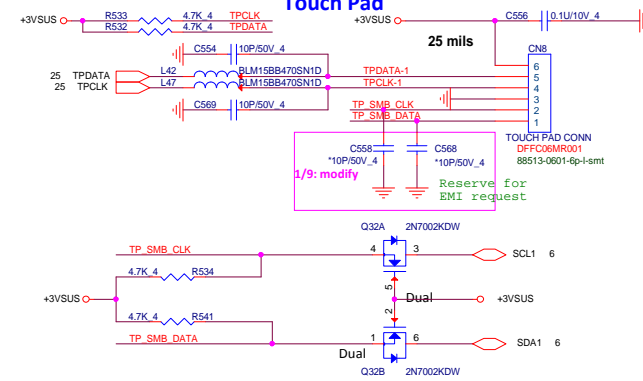
Reserve for EMI

SD_D0	EC32	5.6P/16V_4
SD_D1	EC33	5.6P/16V_4
SD_D2	EC30	5.6P/16V_4
SD_D3	EC31	5.6P/16V_4

Power Button Connector



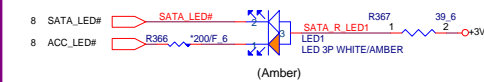
Touch Pad



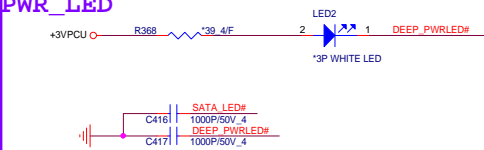
21

LED

SATA_LED

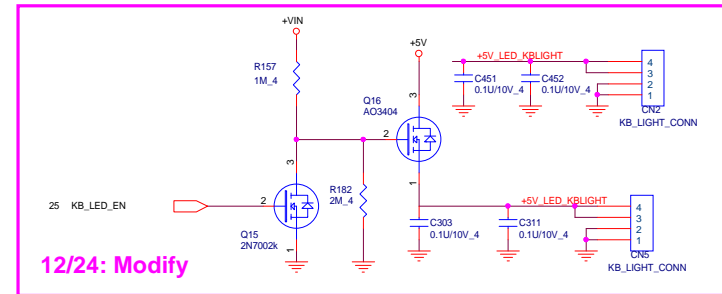


PWR_LED



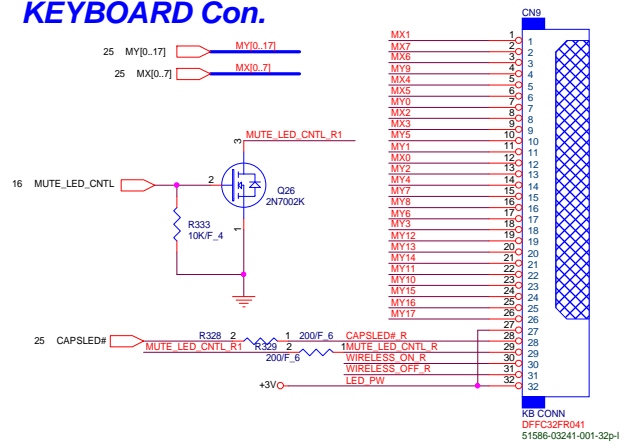
PWR LED Clamshell only

15" KB backlight only

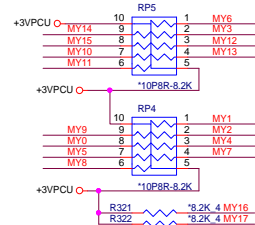


12/24: Modify

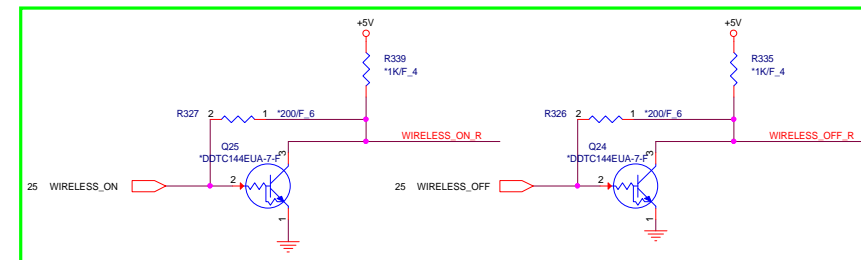
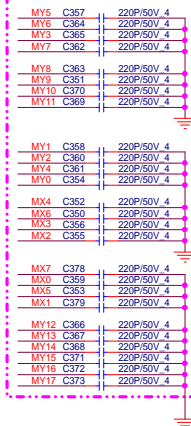
KEYBOARD Con.



KEYBOARD PULL-UP



1/17: EMI Modify

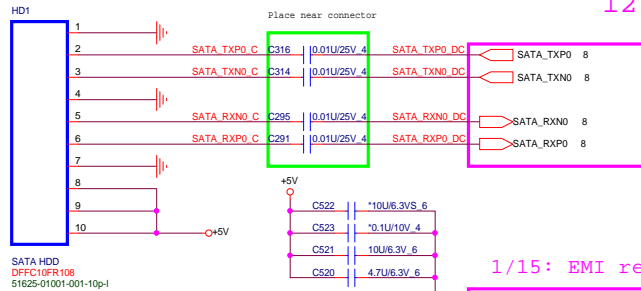


PROJECT : Y7X
Quanta Computer Inc.

Size	Document Number	Rev
Custom	TP/LID/KB/PB/LED	1A
Date: Tuesday, January 21, 2014	Sheet 21 of 34	

SATA HDD CONNECTOR FFC TYPE

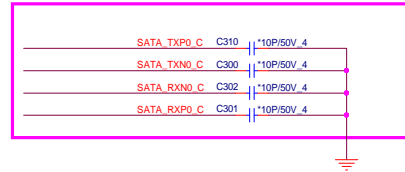
22



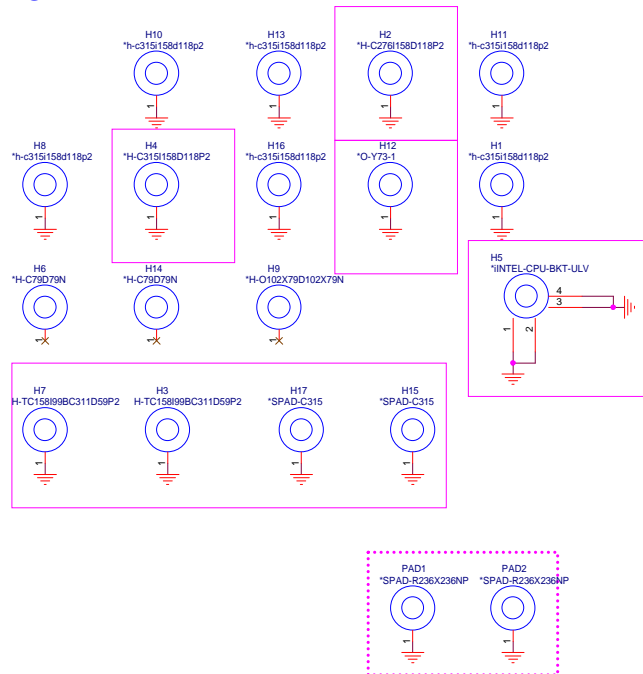
12/25: Del SATA re-driver

1/15: EMI reserve

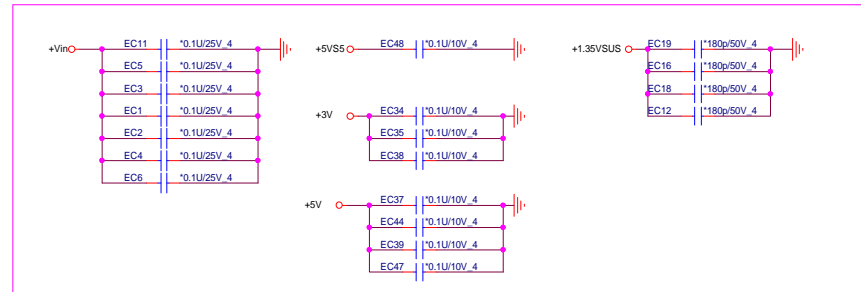
Bypass CAP close conn



HOLE



EMI reserve



PROJECT : Y7X
Quanta Computer Inc.

2,4,6,8,9,10,11,12,13,14,15,16,17,18,19,20,21,24,25,33
15,16,17,21,33

+3V

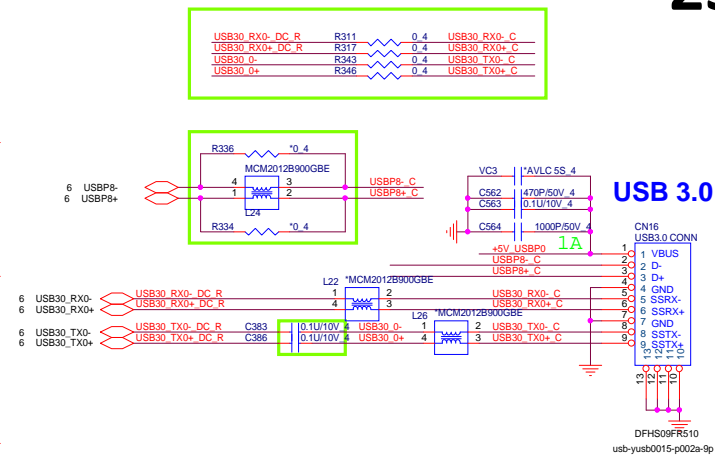
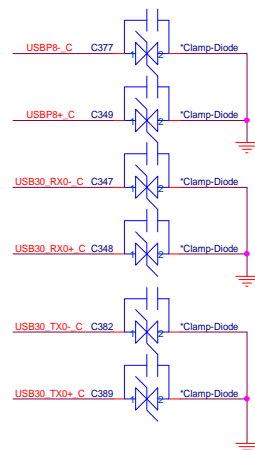
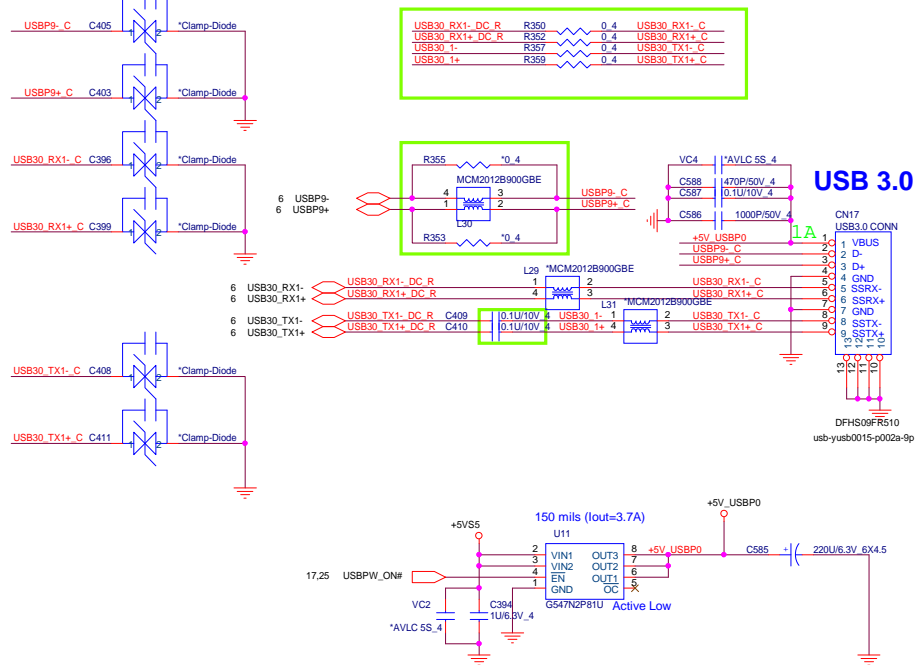
+5V



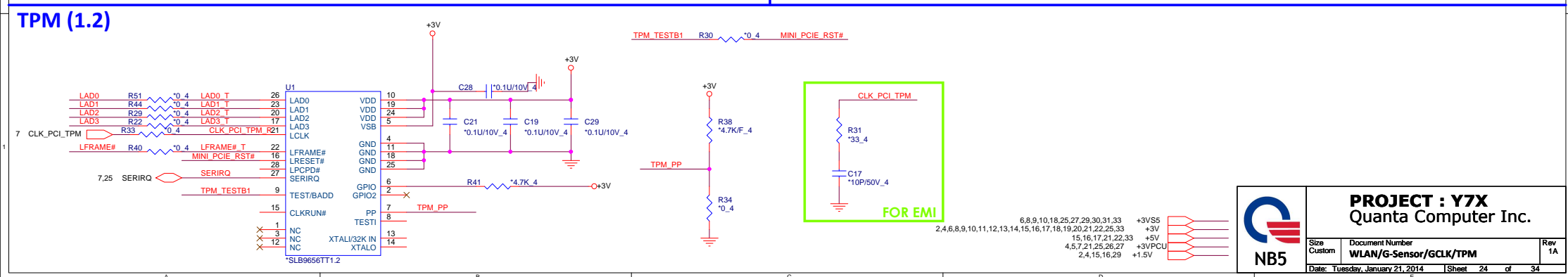
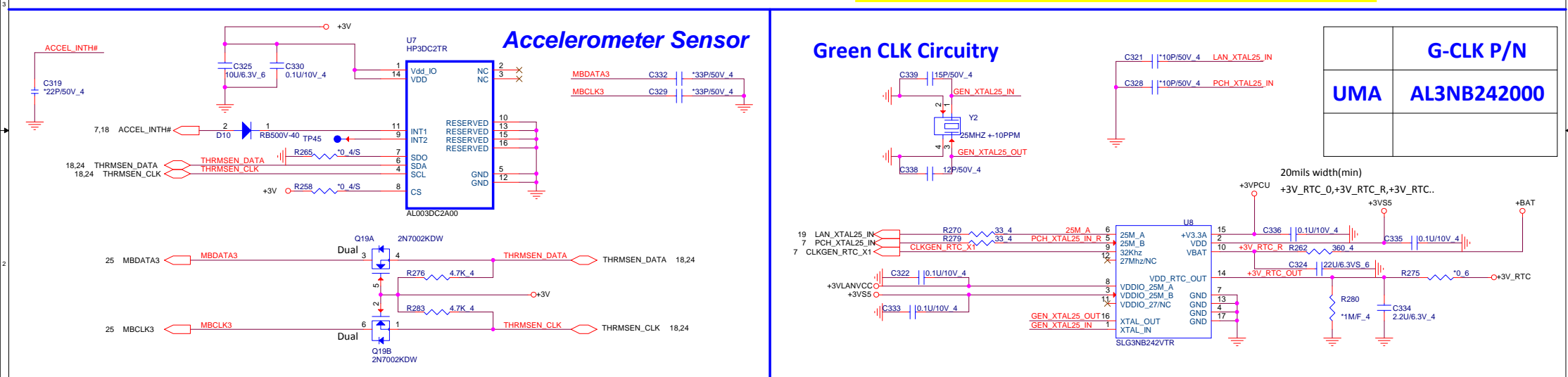
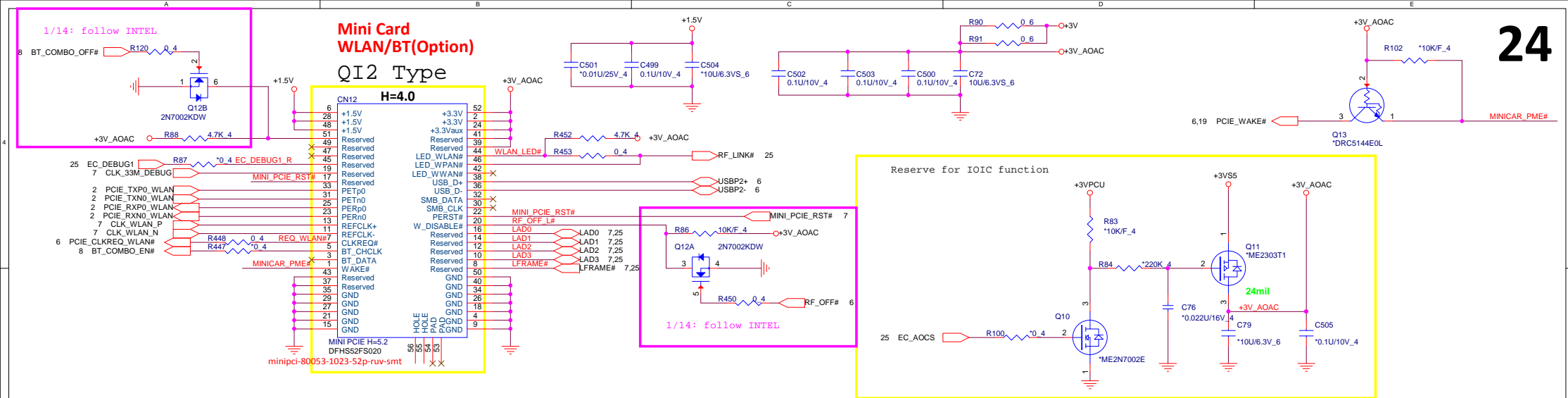
Size	Document Number	Rev
Custom	HDD/re-driver/HOLE	1A
Date: Tuesday, January 21, 2014	Sheet 22 of 34	

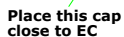
USB 2.0/3.0 Combo

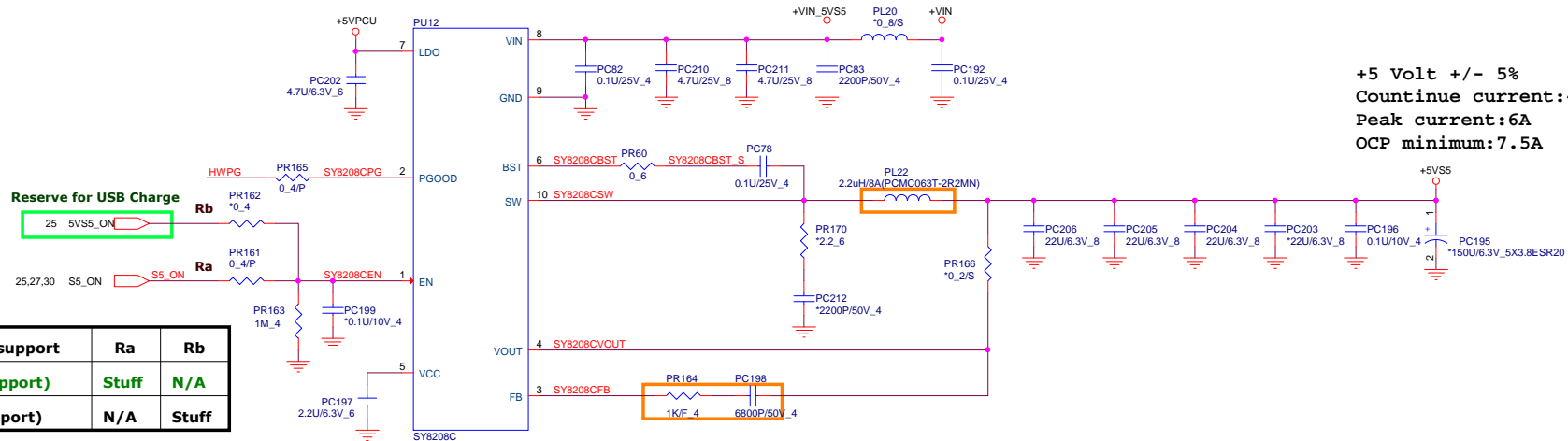
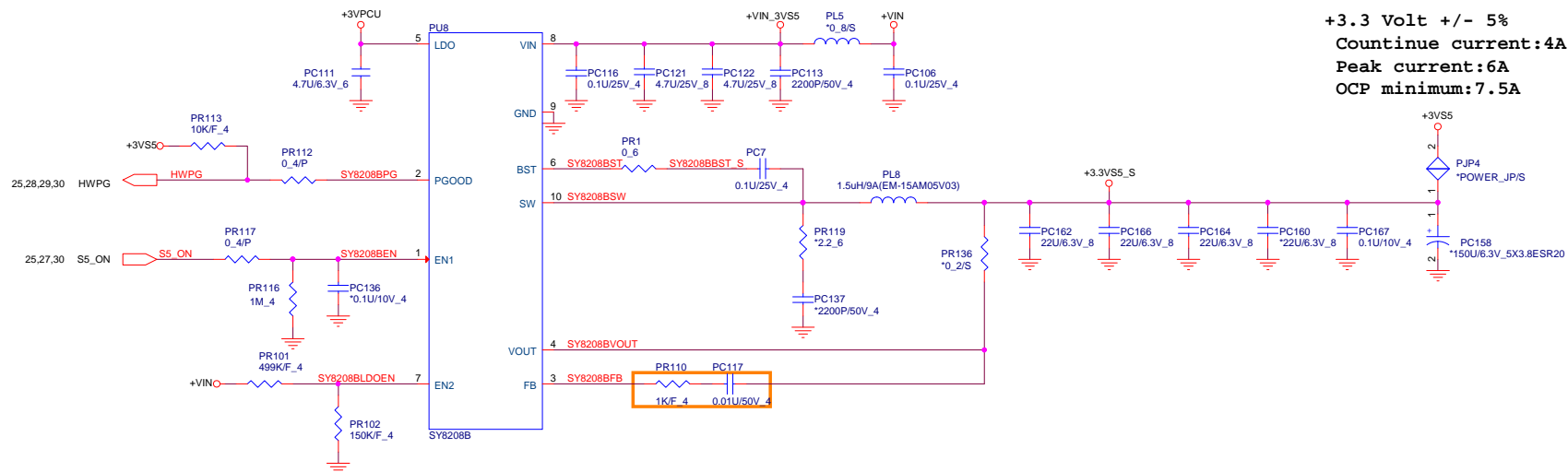
23



12/25: Del USB re-driver







Reserve for USB Charge
 25 5VS5_ON

USB charge support	Ra	Rb
Napa (No support)	Stuff	N/A
Whisky (Support)	N/A	Stuff

