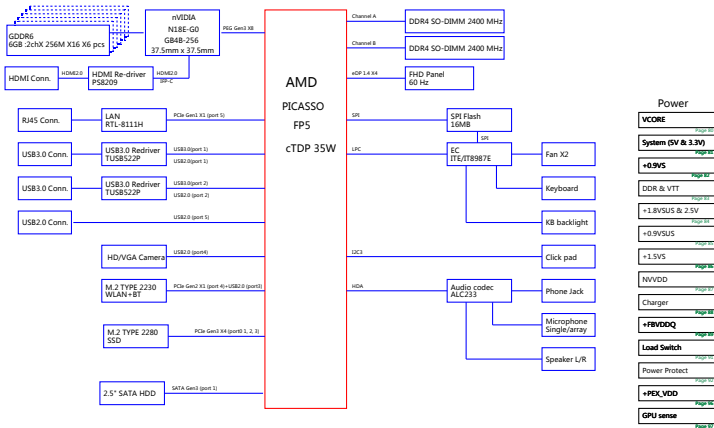
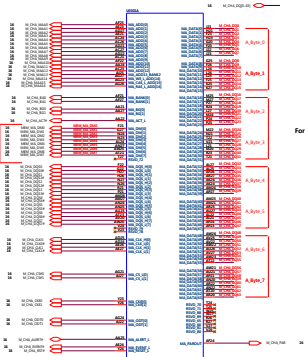


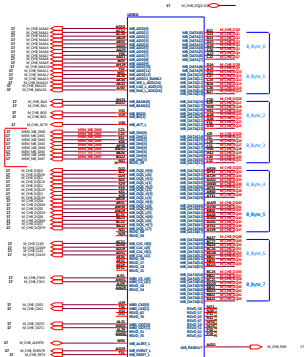
FX505DU Block Diagram

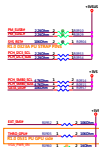


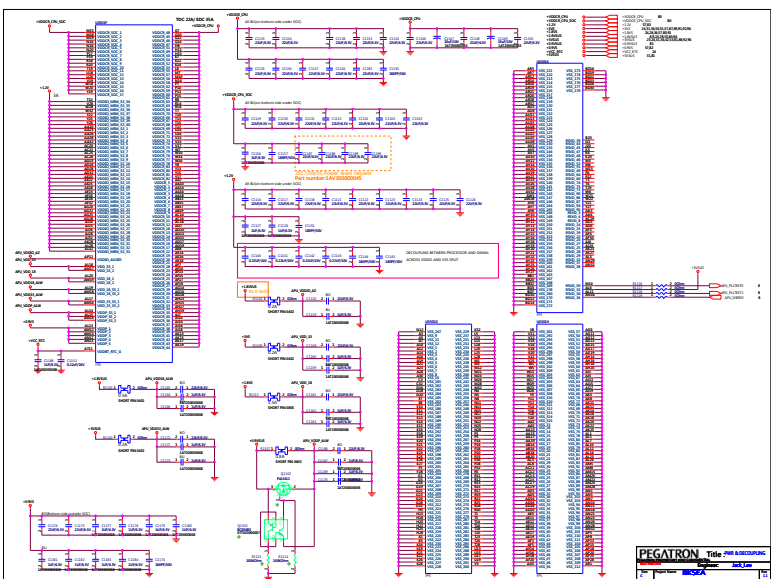
For AMD request



For AMD request

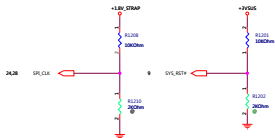








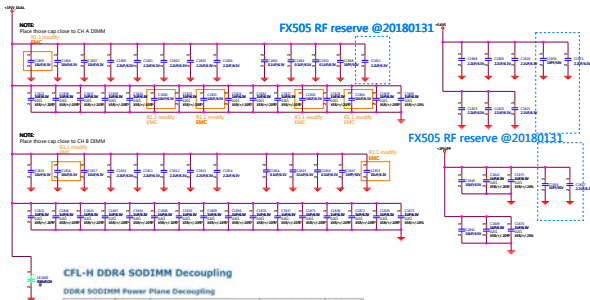
STRAP PINS



Class	Function	Definition
GR_L44		<p>1 GET DRINK (DRINK, GLASS) AND</p> <p>2 DRINK IT IN 10 SECONDS AND RETURN GLASS (getDrink)</p> <p>3 GET GLASS FOR EACH AND RETURN IT (GLASS AND</p> <p>4 DRINK IT IN 10 SECONDS GLASS ONLY</p>
GR_P100		<p>1 HOLDING DRINK (getDrink)</p> <p>2 DRINK DRINK NOW</p>

+1.7V		+1.7V	67.89	67.89
+1.5V Dual		+1.5V Dual	67.89	67.89
+0.9V		+0.9V	67.89	67.89
+0.9V MP		+0.9V MP	67.89	67.89
+0V		+0V	67.89	67.89



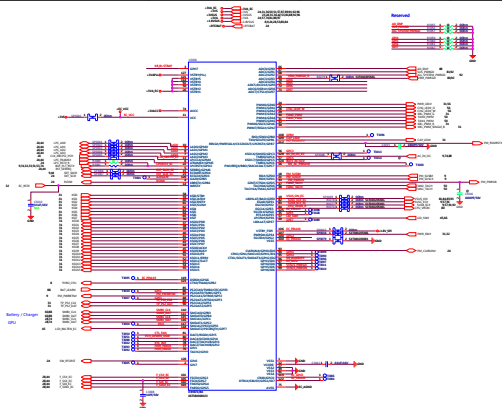


CFL-H DDR4 SODIMM Decoupling

DDR4 SODIMM Power Plane Decoupling

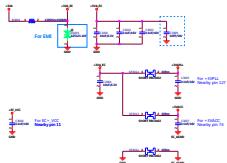
Memory Configuration	Power Domain	Decryption Location	Qty x pf (size)	Note
DDR4 2 Channels SCDDR5 16PC	VDDQ	4 near each side of the DDR4 connector close to VDD pin	8x 10uF (0603)	
		4 near each side of the DDR4 connector close to VDD pin	8x 1uF (0402)	
	VTT	1 precharger	1x 220uF (1741)	
		Placed on VTT plane close to DDR4, 1 cap stuffed, 1 precharger	2x 10uF (0603)	
	VPP	Placed on VTT plane close to DDR4	4x 1uF (0402)	
		DDR4 Pin solts, 1 per DDR4	2x 10uF (0603)	
VDDPHD	VDDPHD	DDR4 Pin solts, 1 per DDR4	2x 1uF (0402)	
		Place close to DDR4	2x 0.5uF (0402)	
		Place close to DDR4	2x 2.2uF (0402)	





For EC Power

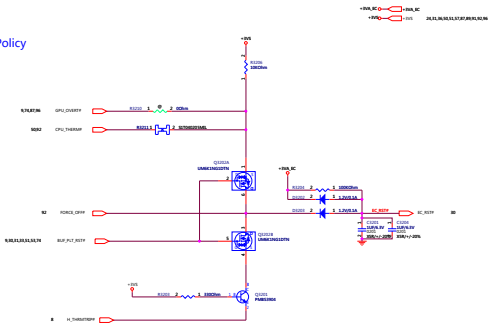
FX505 RF reserve @20180131



For PU / PD



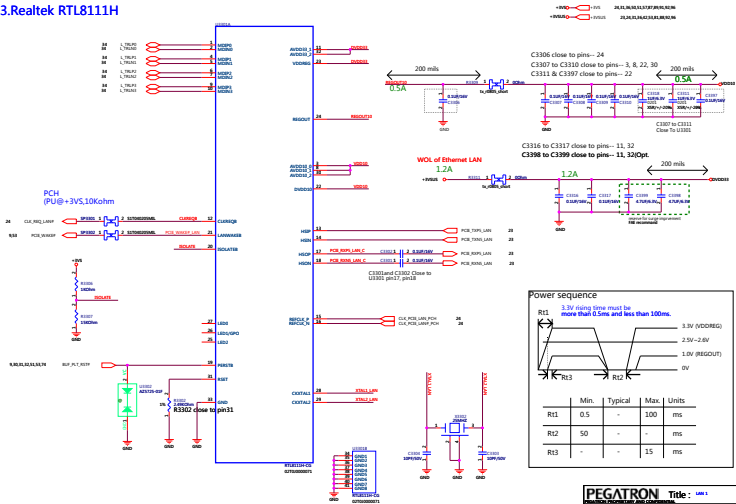
Thermal Policy



EC reset

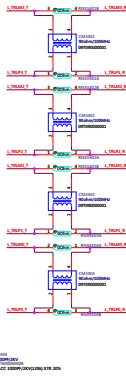
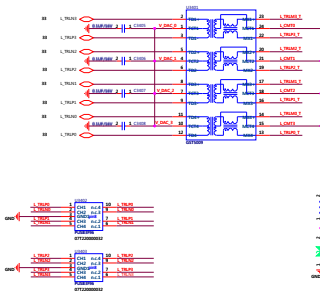
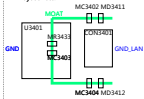


33.Realtek RTL8111H

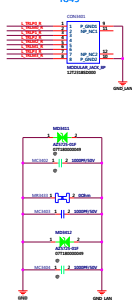


34.Transformer/RJ45

LAN layout note:

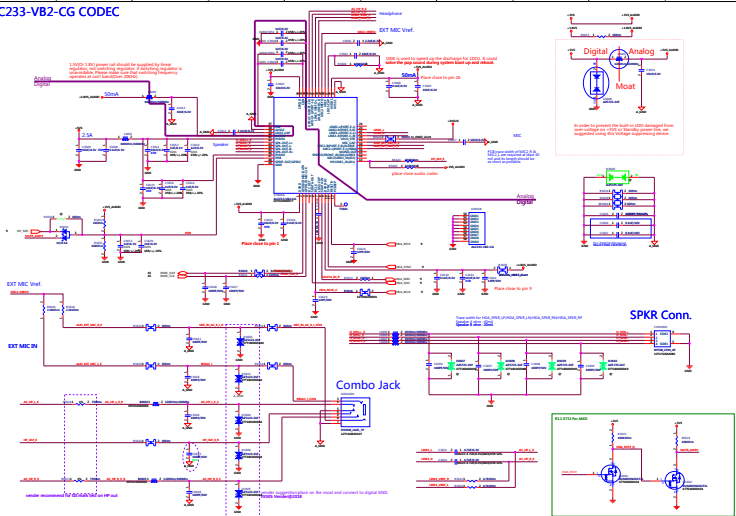


RJ45



PEGATRON		Title : LAN 2	
Revision: 1.0		Engineering	
Rev	Project Name	Project No	Rev
AS	Building, March 12, 2009	30	1.0

ALC233-VB2-CG CODEC

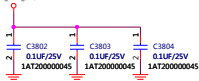


+AC_BAT_SYS +AC_BAT_SYS 80,81,82,83,84,88,97

+AC_BAT_SYS



+AC_BAT_SYS



File

<Title>

Size

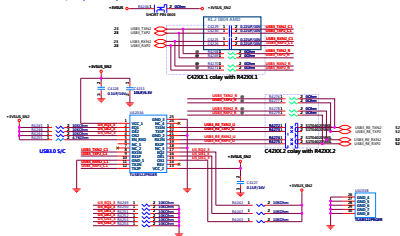
Document Number
FX505DU

Rev
1.1

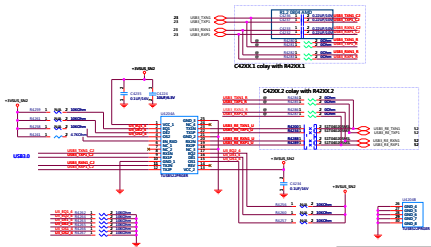
Date: Tuesday, March 12, 2019

Sheet 38 of 72

USB 3.0 PORT 0 S/C (Gen 1)

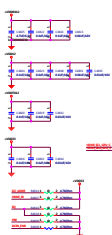
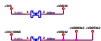
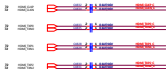


USB 3.0 PORT 1 (Gen 1)

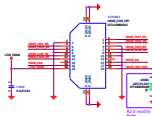
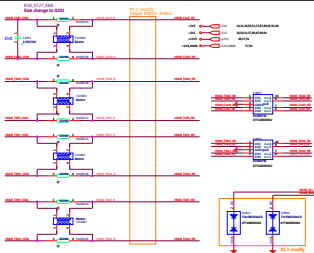
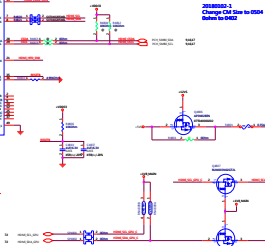
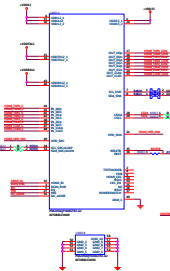


[illegible][illegible][illegible]

HDMI



JK: slave address selection; internal pull down
 L: latchup, slave address: 0x2D-3F
 H: Alternative slave address: 0x2F-3F; 0x5D-5F
 HQH: ID enable; internal pull down
 L: latchup, PMSD ID enable
 H: **HQH ID enable**
 EQ - Resistor emulation setting; internal pull up
 L: Compensation for channel loss up to 12dB
 H: Compensation for channel loss up to 17dB
 M: Compensation for channel loss up to 12dB
 PSE - Output preemphasis setting; internal pull up
 L: Pre-emphasis, 0-2 ffs
 H: Serial, No Pre-emphasis



CPU Thermal Sensor

temperature set=85 C

R3873(C2)=0.0012712--0.00007+16.147



CPU FAN



EC(PU@+3VS,10Kohm

GPU FAN



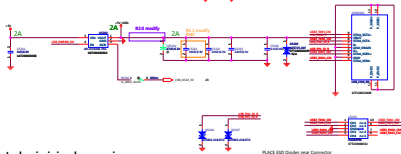
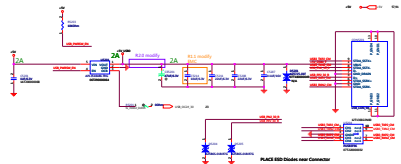
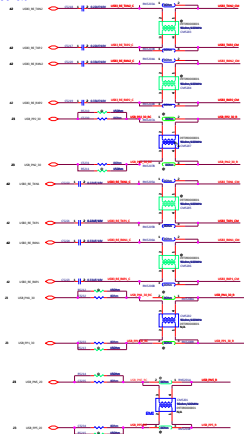
EC(PU@+3VS,10Kohm

6Pins Fan Connector Pins Definition

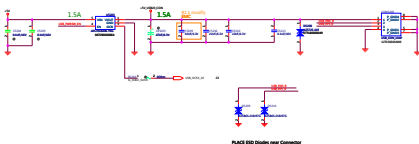


Pin No.	Function
Pin 1	TACHQ
Pin 2	GND
Pin 3	PRM
Pin 4	+5V

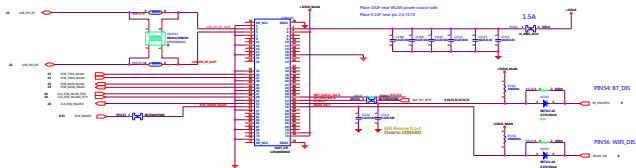
52.USB3.0



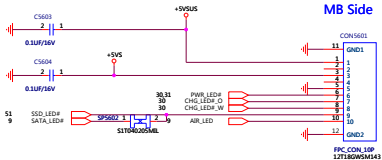
www.teknisi-indonesia.com



M.2 2230 KEY-E



Receptor Class	OP Type	OP Type	Receptor Class
1. Glutamate Receptors	AMPA	AMPA	1. Glutamate Receptors
2. GABA Receptors	GABA _A	GABA _A	2. GABA Receptors
3. Acetylcholine Receptors	nAChR	nAChR	3. Acetylcholine Receptors
4. Adrenergic Receptors	α_1	α_1	4. Adrenergic Receptors
5. Histamine Receptors	H ₁	H ₁	5. Histamine Receptors
6. Angiotensin Receptors	AT ₁	AT ₁	6. Angiotensin Receptors
7. Endothelin Receptors	ET _A	ET _A	7. Endothelin Receptors
8. Calcitonin Receptors	CTR	CTR	8. Calcitonin Receptors
9. Parathyroid Hormone Receptors	PTH _{1R}	PTH _{1R}	9. Parathyroid Hormone Receptors
10. Glucocorticoid Receptors	GR	GR	10. Glucocorticoid Receptors
11. Mineralocorticoid Receptors	MR	MR	11. Mineralocorticoid Receptors
12. Androgen Receptors	AR	AR	12. Androgen Receptors
13. Estrogen Receptors	ER	ER	13. Estrogen Receptors
14. Retinoid Receptors	NR	NR	14. Retinoid Receptors
15. Vitamin D Receptors	VDR	VDR	15. Vitamin D Receptors
16. Thyroid Receptors	TR	TR	16. Thyroid Receptors
17. Insulin Receptors	IR	IR	17. Insulin Receptors
18. IGF Receptors	IGF _{1R}	IGF _{1R}	18. IGF Receptors
19. IGF Receptors	IGF _{2R}	IGF _{2R}	19. IGF Receptors
20. IGF Receptors	IGF _{3R}	IGF _{3R}	20. IGF Receptors
21. IGF Receptors	IGF _{4R}	IGF _{4R}	21. IGF Receptors
22. IGF Receptors	IGF _{5R}	IGF _{5R}	22. IGF Receptors
23. IGF Receptors	IGF _{6R}	IGF _{6R}	23. IGF Receptors
24. IGF Receptors	IGF _{7R}	IGF _{7R}	24. IGF Receptors
25. IGF Receptors	IGF _{8R}	IGF _{8R}	25. IGF Receptors
26. IGF Receptors	IGF _{9R}	IGF _{9R}	26. IGF Receptors
27. IGF Receptors	IGF _{10R}	IGF _{10R}	27. IGF Receptors
28. IGF Receptors	IGF _{11R}	IGF _{11R}	28. IGF Receptors
29. IGF Receptors	IGF _{12R}	IGF _{12R}	29. IGF Receptors
30. IGF Receptors	IGF _{13R}	IGF _{13R}	30. IGF Receptors
31. IGF Receptors	IGF _{14R}	IGF _{14R}	31. IGF Receptors
32. IGF Receptors	IGF _{15R}	IGF _{15R}	32. IGF Receptors
33. IGF Receptors	IGF _{16R}	IGF _{16R}	33. IGF Receptors
34. IGF Receptors	IGF _{17R}	IGF _{17R}	34. IGF Receptors
35. IGF Receptors	IGF _{18R}	IGF _{18R}	35. IGF Receptors
36. IGF Receptors	IGF _{19R}	IGF _{19R}	36. IGF Receptors
37. IGF Receptors	IGF _{20R}	IGF _{20R}	37. IGF Receptors
38. IGF Receptors	IGF _{21R}	IGF _{21R}	38. IGF Receptors
39. IGF Receptors	IGF _{22R}	IGF _{22R}	39. IGF Receptors
40. IGF Receptors	IGF _{23R}	IGF _{23R}	40. IGF Receptors
41. IGF Receptors	IGF _{24R}	IGF _{24R}	41. IGF Receptors
42. IGF Receptors	IGF _{25R}	IGF _{25R}	42. IGF Receptors
43. IGF Receptors	IGF _{26R}	IGF _{26R}	43. IGF Receptors
44. IGF Receptors	IGF _{27R}	IGF _{27R}	44. IGF Receptors
45. IGF Receptors	IGF _{28R}	IGF _{28R}	45. IGF Receptors
46. IGF Receptors	IGF _{29R}	IGF _{29R}	46. IGF Receptors
47. IGF Receptors	IGF _{30R}	IGF _{30R}	47. IGF Receptors
48. IGF Receptors	IGF _{31R}	IGF _{31R}	48. IGF Receptors
49. IGF Receptors	IGF _{32R}	IGF _{32R}	49. IGF Receptors
50. IGF Receptors	IGF _{33R}	IGF _{33R}	50. IGF Receptors
51. IGF Receptors	IGF _{34R}	IGF _{34R}	51. IGF Receptors
52. IGF Receptors	IGF _{35R}	IGF _{35R}	52. IGF Receptors
53. IGF Receptors	IGF _{36R}	IGF _{36R}	53. IGF Receptors
54. IGF Receptors	IGF _{37R}	IGF _{37R}	54. IGF Receptors
55. IGF Receptors	IGF _{38R}	IGF _{38R}	55. IGF Receptors
56. IGF Receptors	IGF _{39R}	IGF _{39R}	56. IGF Receptors
57. IGF Receptors	IGF _{40R}	IGF _{40R}	57. IGF Receptors



+5VSUS 31,81
+5VS 36,50,51,57,80,87,89,91

Power LED

AIR PLANE LED

NOTE: AIR_LED#_R
High -> airplane mode ON -> LED ON
Low -> airplane mode OFF -> LED OFF

Charger LED

PCB/ID LOCATION

PWR LED
LED5601

Charger LED
LED5606

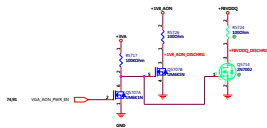
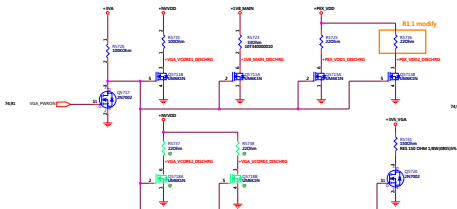
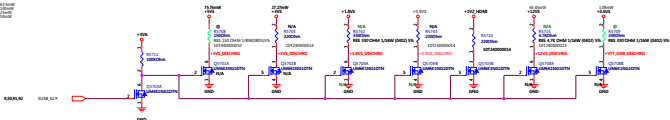
HDD LED
LED5604

RF LED
LED5602

HDD LED

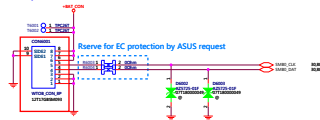
PEGATRON Title : LED				
PEGATRON PROPRIETARY AND CONFIDENTIAL				
BG11-HW RDC-1HW2-1HW RD Dup1.1			Engineer: Johnson Huang	
Size A4	Project Name	FX565DU	56	72
Tuesday, March 12, 2019			56	72
Date	Sheet		of	

V12M
 GND = 1.000V + 0.000V
 GND = 1.000V + 0.000V
 GND = 1.000V + 0.000V
 GND = 1.000V + 0.000V



PEGATRON		Title: DISCHARGE	
Rev: 1.0		Date: 2024/03/13	
Rev: 1.0		Date: 2024/03/13	
Rev: 1.0		Date: 2024/03/13	
Rev: 1.0		Date: 2024/03/13	

Battery Conn.



ABBA assign: 1217-01UG0AS(1217-017L000) , doesn't include 1217-01EG000 (the same pool)

AC in Conn.



FX505DD/DT N17P/N18P Adaptor: 120W (6.32A)
FX505DU N18E-G0 Adaptor: 180W (9.23A)

M.2 SSD NUT:



drill 3*3.5



drill 1.7



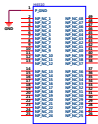
drill 2.2*1.7



B group:
CPU GPU bracket hole



D group:



Near Audio Jack
TOP: square 8
BOT: phi 8 drill 3



E:
TOP: phi 7 drill 6
BOT: phi 7 drill 6



F:
TOP: phi 8 drill 3
BOT: phi 4 drill 3



C group:
TOP: phi 8 dr 2.5
BOT: phi 8 dr 2.5



H group:



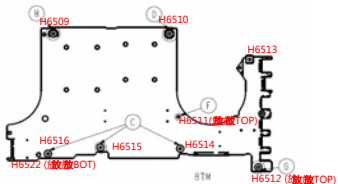
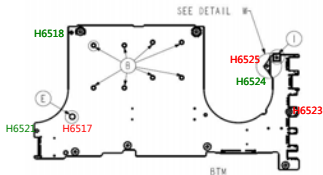
I group:
TOP: square8*8.5 drill 2.5
BOT: square8*8.5 drill 2.5



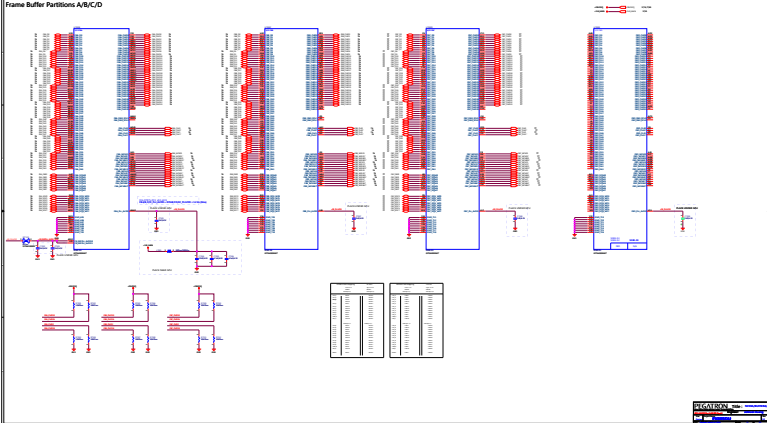
TOP: phi 7 drill 3
BOT: phi 7 drill 3

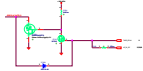
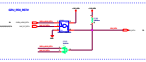
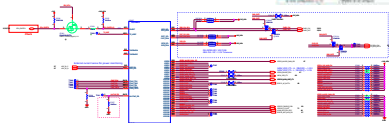


TOP: phi 3 drill 2.5
BOT: phi 3 drill 2.5

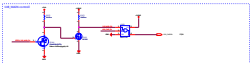
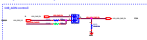


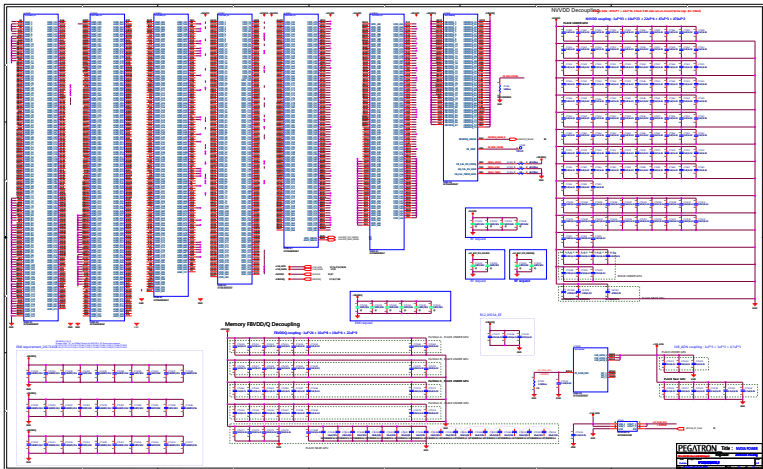
Frame Buffer Partitions A/B/C/D

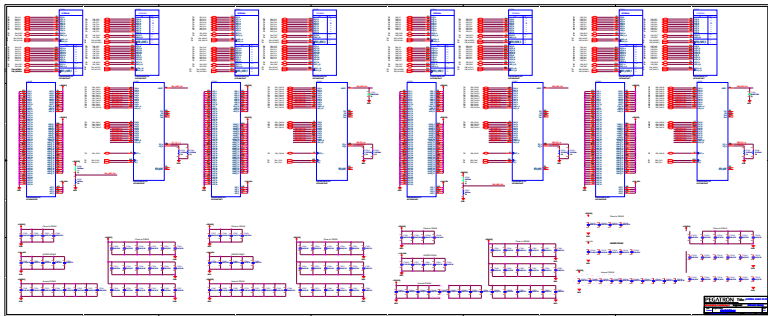


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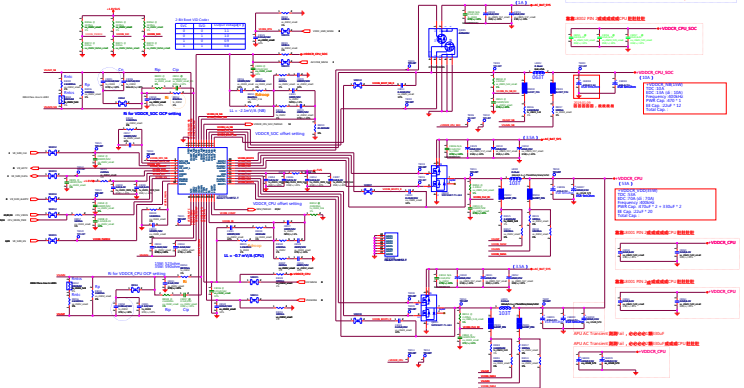
NV power sequence



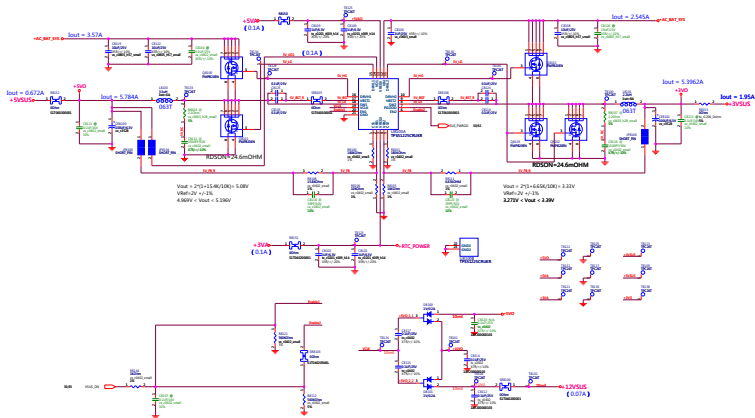




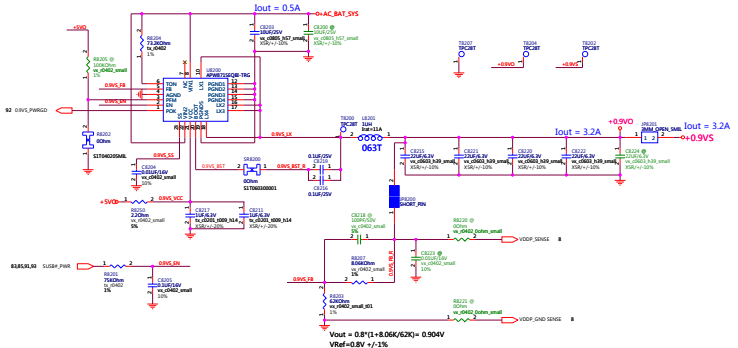
35W VCORE POWER SUPPLY



5VO & 3VO POWER SUPPLY



0.9VS POWER SUPPLY



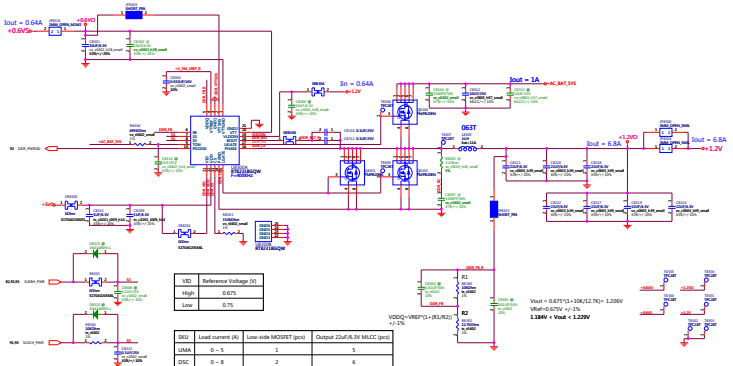
<Variant Names>

PEGATRON Title : +0.9VS

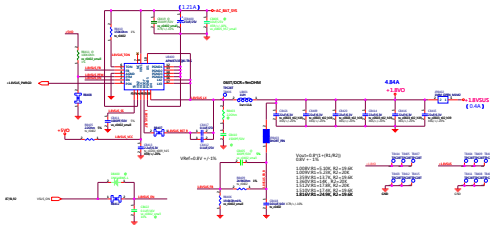
Engineer: Wayne Sung

Size Custom	Project Name FX505AN	Rev 1.0
Date: Tuesday, March 12, 2008 10:22 AM Page 82 of 97		

DDR & VTT POWER SUPPLY



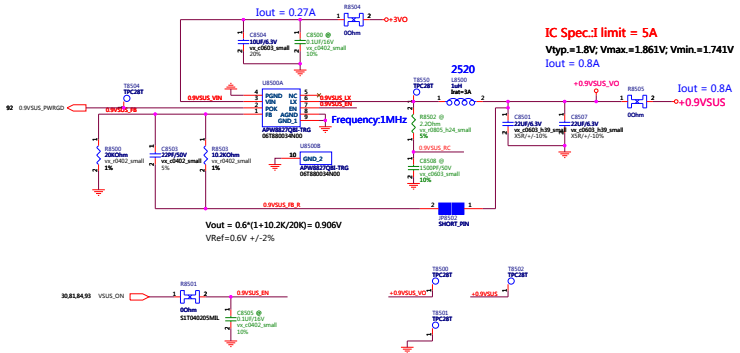
1.8VSUS POWER SUPPLY



2.5VO POWER SUPPLY



0.9VSUS POWER SUPPLY



• Variant Names:

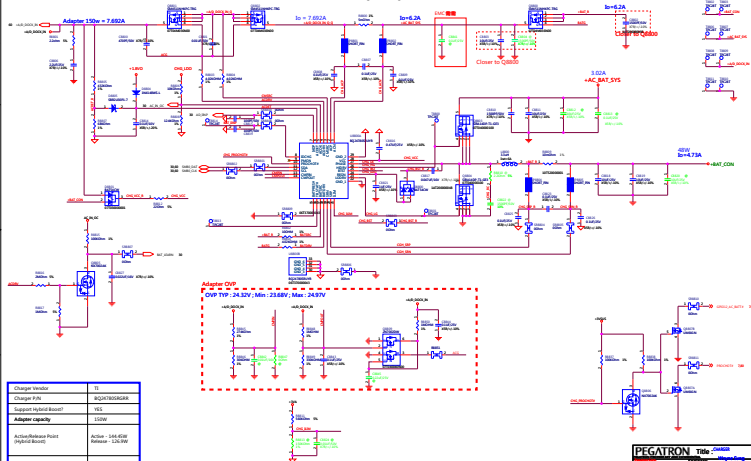
PEGATRON Title : POWER_0.9VSUS

Engineer: **Wayne Sung**

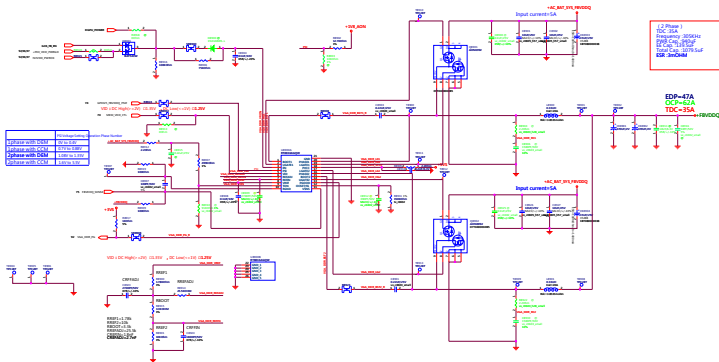
Size Custom	Project Name FX505AN	Rev 1.0
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Date: Thursday, March 12, 2015 Sheet 85 of 97

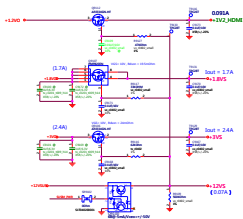
BATTERY CHARGER



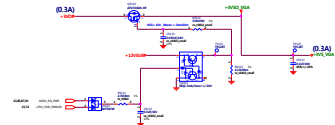
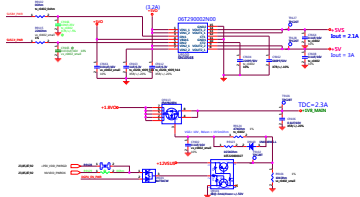
+FBVDDQ POWER SUPPLY



LOAD SWITCH



DSC_VGA_PWR POWER



SUSB#_PWR POWER Control

SUSC#_PWR POWER Control

DSC_VGA_PWR POWER Control

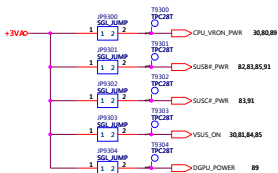


Diagram illustrating the schematic representation of the two electrodes. The left electrode is labeled +3V/SUS and the right is labeled +3V/S. Both electrodes consist of a Pt wire connected to a 100K Ohm resistor and a 1% concentration of vix_r0402_small in a 1M solution.

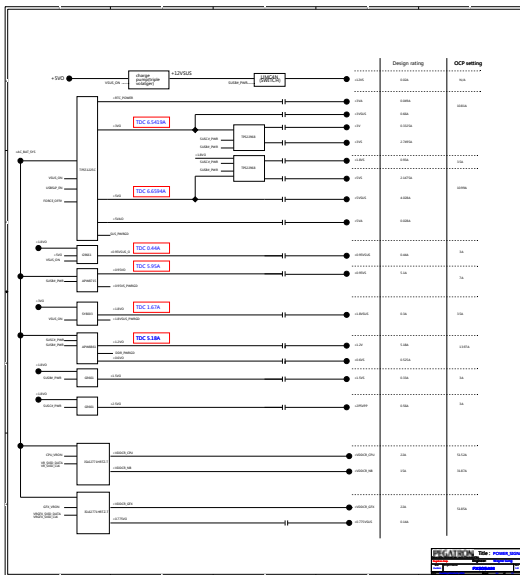


+AC_BAT_SYS	→	+AC_BAT_SYS	45,80,81,82,83,88,89
+BAT_CON	→	+BAT_CON	60,88
+RTC_POWER	→	+RTC_POWER	81
+5VA	→	+5VA	56,66,81
+3VA	→	+3VA	11,28,30,56,57,60,66,81,88
+5VQ	→	+5VQ	81,83,85,89,91
+3VQ	→	+3VQ	81,84,85,89,91
+2.5VQ	→	+2.5VQ	83
+1.8VQ	→	+1.8VQ	84,85,91
+1.8VQ_VGA	→	+1.8VQ_VGA	83
+1.2VQ	→	+1.2VQ	83
+0.9VQ	→	+0.9VQ	83
+0.9VSUS_VO	→	+0.9VSUS_VO	83
+0.6VQ	→	+0.6VQ	83
+12VSUS	→	+12VSUS	81,91
+5VSUS	→	+5VSUS	52,66,81
+3VSUS	→	+3VSUS	8,9,11,12,28,30,31,36,51,81,92
+1.8VSUS	→	+1.8VSUS	9,11,28,80,84,89
+0.9VSUS	→	+0.9VSUS	83
+12VS	→	+12VS	28,31,48,91
+5VS	→	+5VS	30,31,36,48,50,51,56,57,61,80,91
+3VS	→	+3VS	8,9,10,11,12,16,17,28,30,31,36,37,40,45,48,50,51,53,56,57,61,62,64,66,91,92
+1.8VS	→	+1.8VS	8,9,11,28,31,44,48,57,80,89,91
+0.6VS	→	+0.6VS	16,17,57,83
+3V	→	+3V	31,44,57,64,66,91
+1.2V	→	+1.2V	7,11,16,17,57,83
+2PSVPP	→	+2PSVPP	83
+1.8VS_VGA	→	+1.8VS_VGA	83
+1.3VS_VGA	→	+1.3VS_VGA	83
+VDDCL_VGA	→	+VDDCL_VGA	11,80,89
+VDDC_VGA	→	+VDDC_VGA	11,80,89
+VDDCR_CPU_SOC	→	+VDDCR_CPU_SOC	11,80
+VDDCR_CPU	→	+VDDCR_CPU	11,80

FOR POWER TEST



PEGATRON		Title : POWER_SIGNAL	
PEGATRON PROPRIETARY AND CONFIDENTIAL			
Pegatron Corp.		Engineer: Wayne Sung	
Size	Project Name	Rev	
Custom	FX505AN	1.0	
Date: Tuesday, March 12, 2019	Sheet	93	of 97



[illegible]

20181020D
C06G1-C06G4 are changed to 0462

20181028A
Rearranging R0960
PCIE_T0[0:19][1:1]_SD2_C are changed to PCIE_T0[0:19][1:2]_SD2_C

20181030C
Add R7112 R7118
Remove C7502
Add R3661, R3664

20181101A
Add R4002, R4008, R4012
memory swap
Delete test point on C0612G9

20181108B
Add R2464
Add C5141, C5145
Add SATA/PCIE module on Page 12
Change R3661, R3664 to 0462

20181110
Add R2104
Change B0706B1 to jumper
Delete R2459

20181110S
Change R3624, R3632, R3639 to TX
Change C5141, C5145 to 0406F
Add R5124, R5127
Remove SATA signals to SD2

20181115S
D0001 swap

20181116S
Remove SATA_DEVSLP

20181117
Remove H6527
Add L4001, Change the sequence of parts on critical of battery

20181118
Modify for the circuit of GPU sensor
H6M1 and L58 signals swap

20181119
Change C2105 from 0462 to 0463
Change H0X05D 0P to 0465 dots

20181112
R57402 swap
update power segment

20181113
Delete R61, R65F CA related circuit
Add Q3401, Q3402

20181114
Change D3611 to AG40D

20181122
Change Q3402 to L265 and be unmount

20181207
Change U3201 to 9609-081000
Change R5120 to 33 ohm
Mounting R5127

Unmounting Q1102, Q1103, R1114, R1115
Change R6507 to 10ohm
Add R4489, R4490, R0461
Remove FP_FUSE_GPU to -FP_FUSE_GPU

20181207
Unmount U3401, R6337

20181211
Update power schematic 1211

20181217
Mount Q5706, Q5708, R5705, R5705, R5742
Change BT_04706 to -BT_04706
Change 10ohm to 10ohm pad
Remove R7421

20181219
Remove D7405
Add R5105-R5110, C5105-C5110

20181224
Mount R5705, Q5706

20181226
Change BNT of LC of swapped to level shifter

20181227
Change 0402 M6CC "1" to 0402 M6CC "2" for 0404M6 request
Change C0603 to 1000pF

20181228
Unmount R7405
Remove L2615
Change C1147, C1149 to 10uF 0462, Remove C1126
Change R7115 to shortpad
Change R5425, R5426 to 0462
Change R0414, R0415 to 4.7kOhm
Mount C1008, C1116

20180503
Change R7114-R7118 to T7101-T7106

20180504
Change R0960 to shortpad
Change R5425, R5426, R5428 to 5% component
Remove C5116
Change C8712, C8717, C8718, C8719 to lower package

20180507
Delete T7101, T7104
Unmount U3401
Change R3604, R3607, R3614 to 0 ohm, R3608, R3609, R3616, R3619 to 100 ohm

20180114
Mount Q3402
Mount R5742, unmount R7463

20180119
Change C3401, C3404 to 10uF
Change R3404 to shortpad