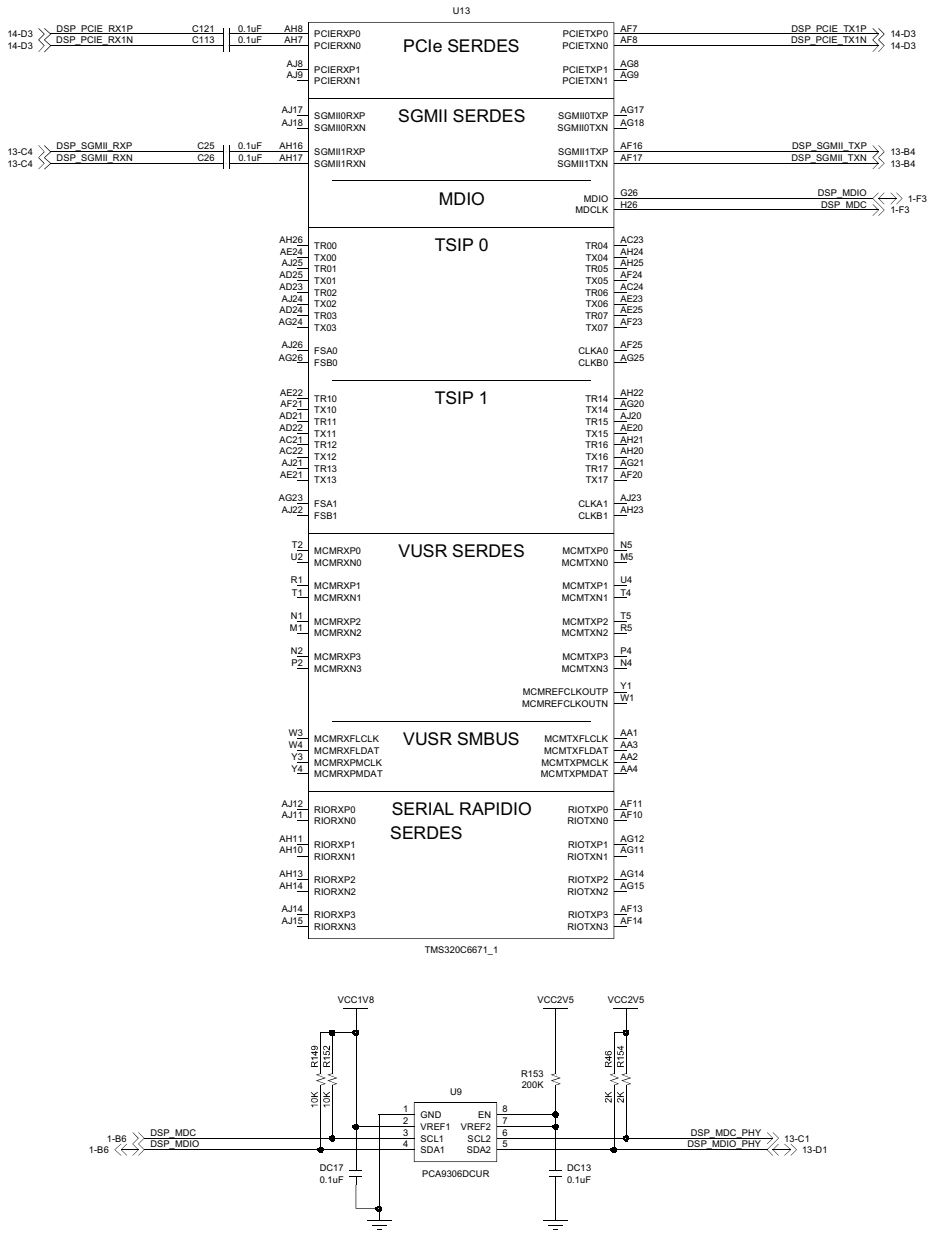
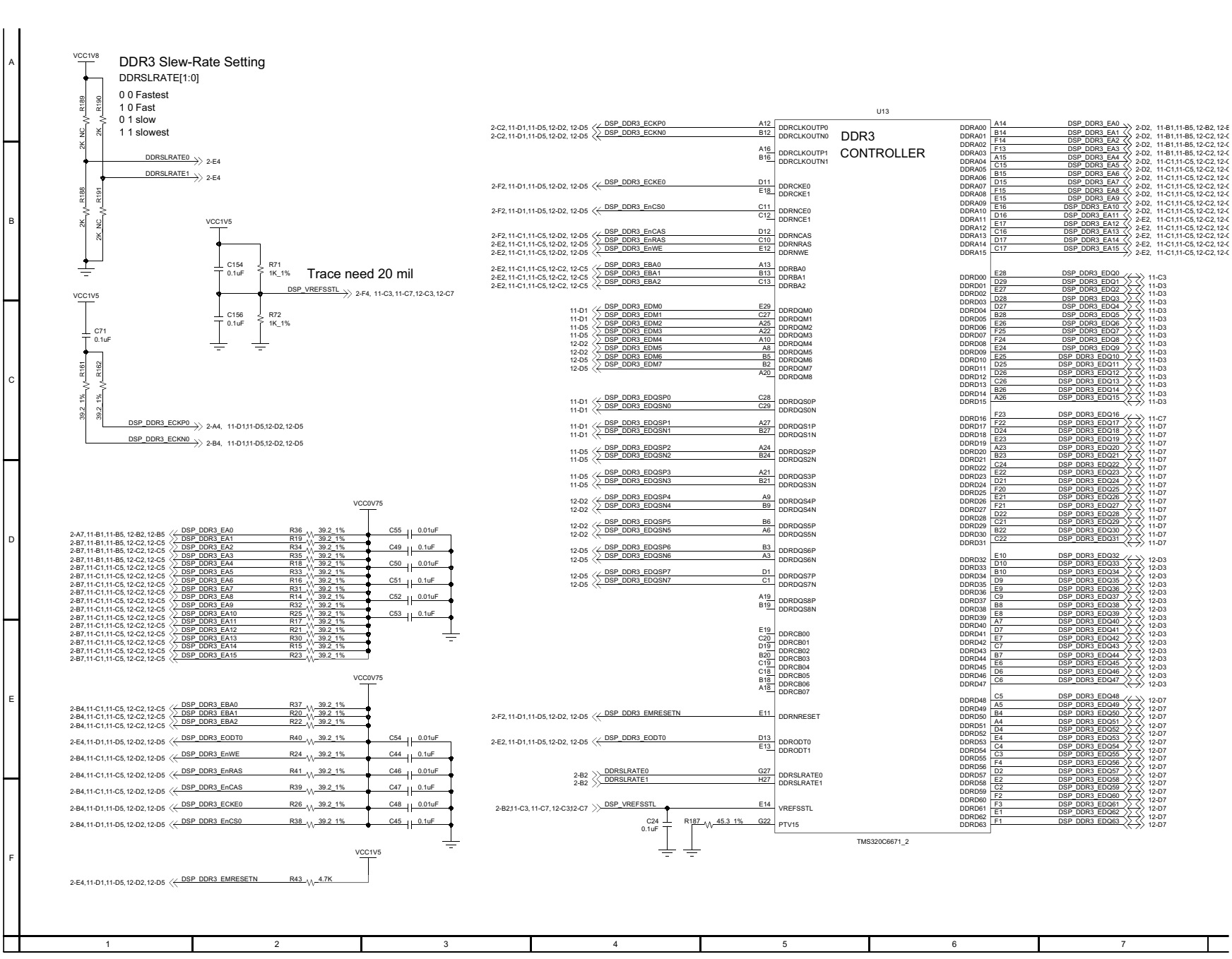
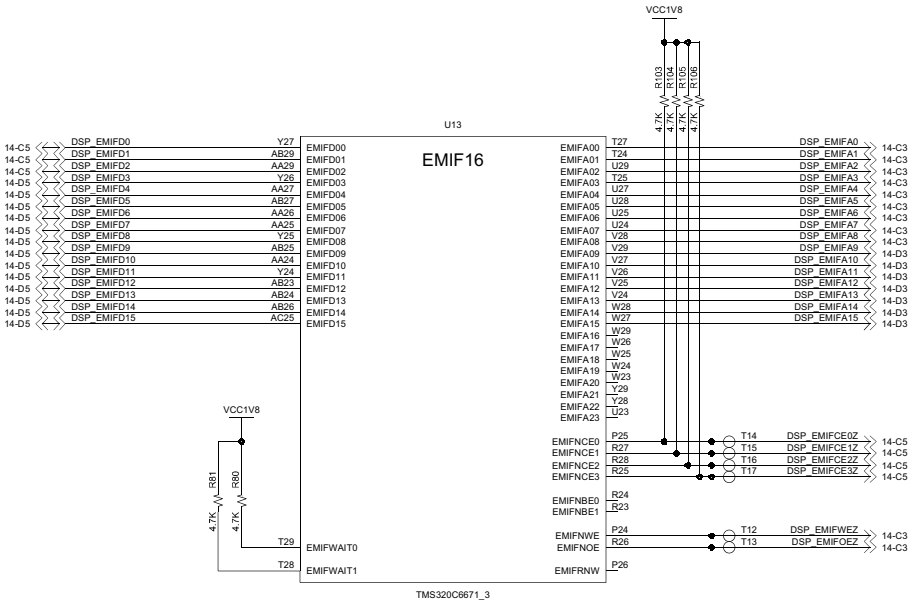
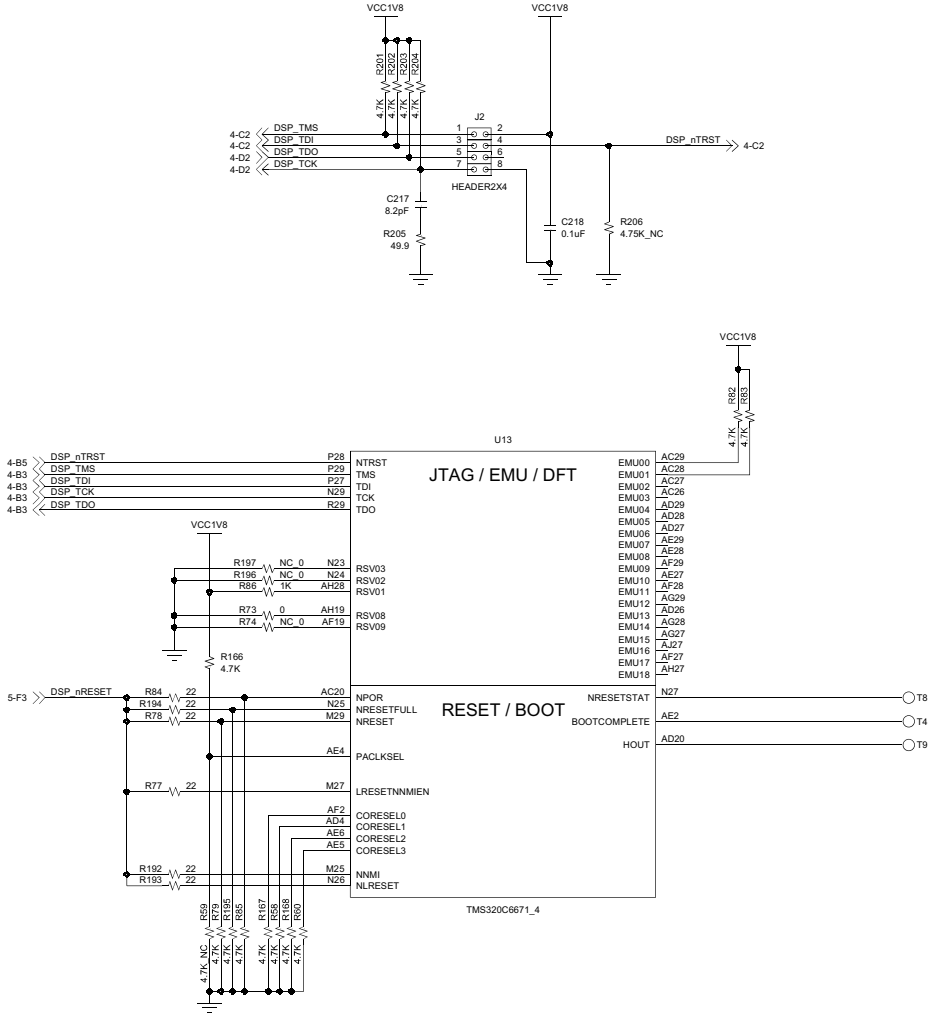
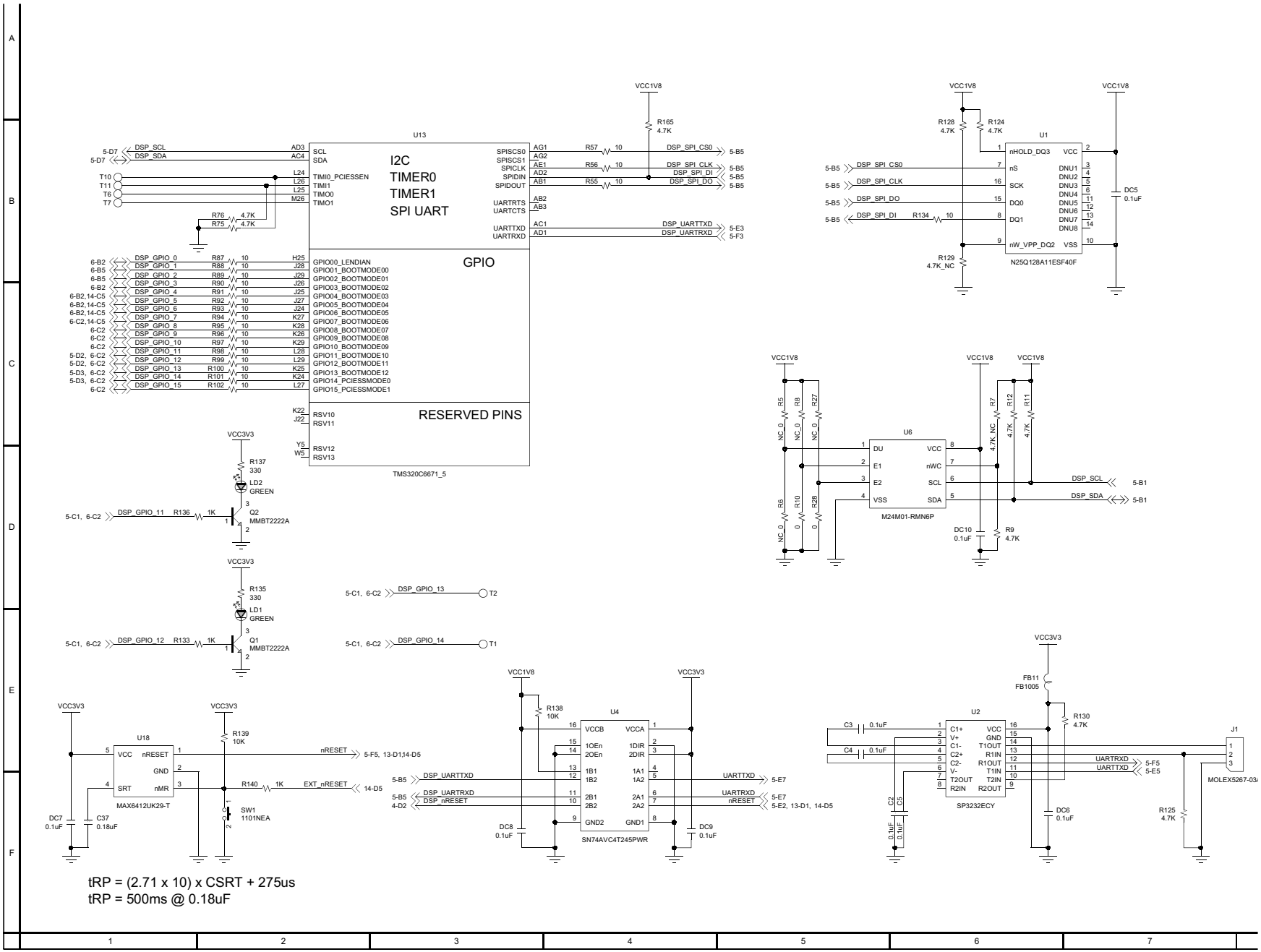
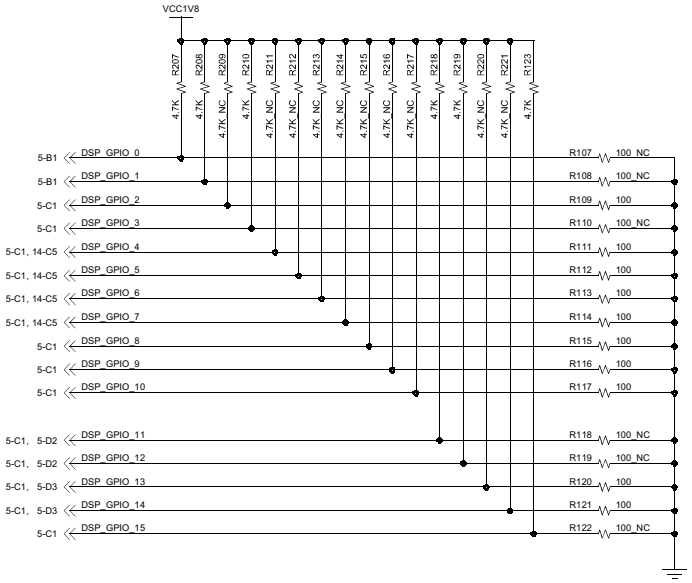

U13
PCIe SERDES
SGMII SERDES
MDIO
TSIP 0
TSIP 1
VUSR SERDES
VUSR SMBUS
SERIAL RAPIDIO SERDES
TMS320C6671_1
DSP_PCIE_RX1P
DSP_PCIE_RX1N
DSP_PCIE_TX1P
DSP_PCIE_TX1N
DSP_SGMII_RXP
DSP_SGMII_RXN
DSP_SGMII_TXP
DSP_SGMII_TXN
DSP_MDIO
DSP_MDC
VCC1V8
VCC2V5
R449
R152
R153
200K
R46
R154
10K
2K
U9
GND
VREF1
SCL1
SDA1
EN
VREF2
SCL2
SDA2
PCA9306DCUR
DSP_MDC_PHY
DSP_MDIO_PHY
DC17
0.1uF
DC13
0.1uF


DDR3 Slew-Rate Setting
DDRSLRATE[1:0]
0 0 Fastest
1 0 Fast
0 1 slow
1 1 slowest
VCC1V8
R189 2K NC
R190 2K
DDRSLRATE0
DDRSLRATE1
2-E4
R188 2K
R191 2K NC
VCC1V5
C154 0.1uF
R71 1K_1%
Trace need 20 mil
DSP_VREFSSTL
2-F4, 11-C3,11-C7,12-C3,12-C7
C156 0.1uF
R72 1K_1%
C71 0.1uF
R161 39.2 1%
R162 39.2 1%
DSP_DDR3_ECKP0
DSP_DDR3_ECKN0
2-A4, 11-D1,11-D5,12-D2,12-D5
2-B4, 11-D1,11-D5,12-D2,12-D5
VCC0V75
DSP_DDR3_EA0 R36 39.2_1% C55 0.01uF
DSP_DDR3_EA1 R19 39.2_1% C49 0.1uF
DSP_DDR3_EA2 R34 39.2_1% C50 0.01uF
DSP_DDR3_EA3 R35 39.2_1% C51 0.1uF
DSP_DDR3_EA4 R18 39.2_1% C52 0.01uF
DSP_DDR3_EA5 R33 39.2_1% C53 0.1uF
DSP_DDR3_EA6 R16 39.2_1%
DSP_DDR3_EA7 R31 39.2_1%
DSP_DDR3_EA8 R14 39.2_1%
DSP_DDR3_EA9 R32 39.2_1%
DSP_DDR3_EA10 R25 39.2_1%
DSP_DDR3_EA11 R17 39.2_1%
DSP_DDR3_EA12 R21 39.2_1%
DSP_DDR3_EA13 R30 39.2_1%
DSP_DDR3_EA14 R15 39.2_1%
DSP_DDR3_EA15 R23 39.2_1%
DSP_DDR3_EBA0 R37 39.2_1%
DSP_DDR3_EBA1 R20 39.2_1%
DSP_DDR3_EBA2 R22 39.2_1%
DSP_DDR3_EODT0 R40 39.2_1% C54 0.01uF
DSP_DDR3_EnWE R24 39.2_1% C44 0.1uF
DSP_DDR3_EnRAS R41 39.2_1% C46 0.01uF
DSP_DDR3_EnCAS R39 39.2_1% C47 0.1uF
DSP_DDR3_ECKE0 R26 39.2_1% C48 0.01uF
DSP_DDR3_EnCS0 R38 39.2_1% C45 0.1uF
VCC1V5
DSP_DDR3_EMRESETN R43 4.7K
U13
DDR3 CONTROLLER
DSP_DDR3_ECKP0 A12 DDRCLKOUTP0
DSP_DDR3_ECKN0 B12 DDRCLKOUTN0
A16 DDRCLKOUTP1
B16 DDRCLKOUTN1
DSP_DDR3_ECKE0 D11 DDRCKE0
E18 DDRCKE1
DSP_DDR3_EnCS0 C11 DDRNCE0
C12 DDRNCE1
DSP_DDR3_EnCAS D12 DDRNCAS
DSP_DDR3_EnRAS C10 DDRNRAS
DSP_DDR3_EnWE E12 DDRNWE
DSP_DDR3_EBA0 A13 DDRBA0
DSP_DDR3_EBA1 B13 DDRBA1
DSP_DDR3_EBA2 C13 DDRBA2
DSP_DDR3_EDM0 E29 DDRDQM0
DSP_DDR3_EDM1 C27 DDRDQM1
DSP_DDR3_EDM2 A25 DDRDQM2
DSP_DDR3_EDM3 A22 DDRDQM3
DSP_DDR3_EDM4 A10 DDRDQM4
DSP_DDR3_EDM5 A8 DDRDQM5
DSP_DDR3_EDM6 B5 DDRDQM6
DSP_DDR3_EDM7 B2 DDRDQM7
A20 DDRDQM8
DSP_DDR3_EDQSP0 C28 DDRDQS0P
DSP_DDR3_EDQSN0 C29 DDRDQS0N
DSP_DDR3_EDQSP1 A27 DDRDQS1P
DSP_DDR3_EDQSN1 B27 DDRDQS1N
DSP_DDR3_EDQSP2 A24 DDRDQS2P
DSP_DDR3_EDQSN2 B24 DDRDQS2N
DSP_DDR3_EDQSP3 A21 DDRDQS3P
DSP_DDR3_EDQSN3 B21 DDRDQS3N
DSP_DDR3_EDQSP4 A9 DDRDQS4P
DSP_DDR3_EDQSN4 B9 DDRDQS4N
DSP_DDR3_EDQSP5 B6 DDRDQS5P
DSP_DDR3_EDQSN5 A6 DDRDQS5N
DSP_DDR3_EDQSP6 B3 DDRDQS6P
DSP_DDR3_EDQSN6 A3 DDRDQS6N
DSP_DDR3_EDQSP7 D1 DDRDQS7P
DSP_DDR3_EDQSN7 C1 DDRDQS7N
A19 DDRDQS8P
B19 DDRDQS8N
E19 DDRCB00
C20 DDRCB01
D19 DDRCB02
B20 DDRCB03
C19 DDRCB04
C18 DDRCB05
B18 DDRCB06
A18 DDRCB07
DSP_DDR3_EMRESETN E11 DDRNRESET
DSP_DDR3_EODT0 D13 DDRODT0
E13 DDRODT1
DDRSLRATE0 G27 DDRSLRATE0
DDRSLRATE1 H27 DDRSLRATE1
DSP_VREFSSTL E14 VREFSSTL
C24 0.1uF
R187 45.3 1% G22 PTV15
TMS320C6671_2
A14 DDRA00 DSP_DDR3_EA0
B14 DDRA01 DSP_DDR3_EA1
F14 DDRA02 DSP_DDR3_EA2
F13 DDRA03 DSP_DDR3_EA3
A15 DDRA04 DSP_DDR3_EA4
C15 DDRA05 DSP_DDR3_EA5
B15 DDRA06 DSP_DDR3_EA6
D15 DDRA07 DSP_DDR3_EA7
F15 DDRA08 DSP_DDR3_EA8
E15 DDRA09 DSP_DDR3_EA9
E16 DDRA10 DSP_DDR3_EA10
D16 DDRA11 DSP_DDR3_EA11
E17 DDRA12 DSP_DDR3_EA12
C16 DDRA13 DSP_DDR3_EA13
D17 DDRA14 DSP_DDR3_EA14
C17 DDRA15 DSP_DDR3_EA15
E28 DDRD00 DSP_DDR3_EDQ0
D29 DDRD01 DSP_DDR3_EDQ1
E27 DDRD02 DSP_DDR3_EDQ2
D28 DDRD03 DSP_DDR3_EDQ3
D27 DDRD04 DSP_DDR3_EDQ4
B28 DDRD05 DSP_DDR3_EDQ5
E26 DDRD06 DSP_DDR3_EDQ6
F25 DDRD07 DSP_DDR3_EDQ7
F24 DDRD08 DSP_DDR3_EDQ8
E24 DDRD09 DSP_DDR3_EDQ9
E25 DDRD10 DSP_DDR3_EDQ10
D25 DDRD11 DSP_DDR3_EDQ11
D26 DDRD12 DSP_DDR3_EDQ12
C26 DDRD13 DSP_DDR3_EDQ13
B26 DDRD14 DSP_DDR3_EDQ14
A26 DDRD15 DSP_DDR3_EDQ15
F23 DDRD16 DSP_DDR3_EDQ16
F22 DDRD17 DSP_DDR3_EDQ17
D24 DDRD18 DSP_DDR3_EDQ18
E23 DDRD19 DSP_DDR3_EDQ19
A23 DDRD20 DSP_DDR3_EDQ20
B23 DDRD21 DSP_DDR3_EDQ21
C24 DDRD22 DSP_DDR3_EDQ22
E22 DDRD23 DSP_DDR3_EDQ23
D21 DDRD24 DSP_DDR3_EDQ24
F20 DDRD25 DSP_DDR3_EDQ25
E21 DDRD26 DSP_DDR3_EDQ26
F21 DDRD27 DSP_DDR3_EDQ27
D22 DDRD28 DSP_DDR3_EDQ28
C21 DDRD29 DSP_DDR3_EDQ29
B22 DDRD30 DSP_DDR3_EDQ30
C22 DDRD31 DSP_DDR3_EDQ31
E10 DDRD32 DSP_DDR3_EDQ32
D10 DDRD33 DSP_DDR3_EDQ33
B10 DDRD34 DSP_DDR3_EDQ34
D9 DDRD35 DSP_DDR3_EDQ35
E9 DDRD36 DSP_DDR3_EDQ36
C9 DDRD37 DSP_DDR3_EDQ37
B8 DDRD38 DSP_DDR3_EDQ38
E8 DDRD39 DSP_DDR3_EDQ39
A7 DDRD40 DSP_DDR3_EDQ40
D7 DDRD41 DSP_DDR3_EDQ41
E7 DDRD42 DSP_DDR3_EDQ42
C7 DDRD43 DSP_DDR3_EDQ43
B7 DDRD44 DSP_DDR3_EDQ44
E6 DDRD45 DSP_DDR3_EDQ45
D6 DDRD46 DSP_DDR3_EDQ46
C6 DDRD47 DSP_DDR3_EDQ47
C5 DDRD48 DSP_DDR3_EDQ48
A5 DDRD49 DSP_DDR3_EDQ49
B4 DDRD50 DSP_DDR3_EDQ50
A4 DDRD51 DSP_DDR3_EDQ51
D4 DDRD52 DSP_DDR3_EDQ52
E4 DDRD53 DSP_DDR3_EDQ53
C4 DDRD54 DSP_DDR3_EDQ54
C3 DDRD55 DSP_DDR3_EDQ55
F4 DDRD56 DSP_DDR3_EDQ56
D2 DDRD57 DSP_DDR3_EDQ57
E2 DDRD58 DSP_DDR3_EDQ58
C2 DDRD59 DSP_DDR3_EDQ59
F2 DDRD60 DSP_DDR3_EDQ60
F3 DDRD61 DSP_DDR3_EDQ61
E1 DDRD62 DSP_DDR3_EDQ62
F1 DDRD63 DSP_DDR3_EDQ63


U13
EMIF16
TMS320C6671_3
VCC1V8
R103
R104
R105
R106
4.7K
R81
R80
DSP_EMIFD0
DSP_EMIFD1
DSP_EMIFD2
DSP_EMIFD3
DSP_EMIFD4
DSP_EMIFD5
DSP_EMIFD6
DSP_EMIFD7
DSP_EMIFD8
DSP_EMIFD9
DSP_EMIFD10
DSP_EMIFD11
DSP_EMIFD12
DSP_EMIFD13
DSP_EMIFD14
DSP_EMIFD15
EMIFD00
EMIFD01
EMIFD02
EMIFD03
EMIFD04
EMIFD05
EMIFD06
EMIFD07
EMIFD08
EMIFD09
EMIFD10
EMIFD11
EMIFD12
EMIFD13
EMIFD14
EMIFD15
EMIFWAIT0
EMIFWAIT1
EMIFA00
EMIFA01
EMIFA02
EMIFA03
EMIFA04
EMIFA05
EMIFA06
EMIFA07
EMIFA08
EMIFA09
EMIFA10
EMIFA11
EMIFA12
EMIFA13
EMIFA14
EMIFA15
EMIFA16
EMIFA17
EMIFA18
EMIFA19
EMIFA20
EMIFA21
EMIFA22
EMIFA23
EMIFNCE0
EMIFNCE1
EMIFNCE2
EMIFNCE3
EMIFNBE0
EMIFNBE1
EMIFNWE
EMIFNOE
EMIFRNW
DSP_EMIFA0
DSP_EMIFA1
DSP_EMIFA2
DSP_EMIFA3
DSP_EMIFA4
DSP_EMIFA5
DSP_EMIFA6
DSP_EMIFA7
DSP_EMIFA8
DSP_EMIFA9
DSP_EMIFA10
DSP_EMIFA11
DSP_EMIFA12
DSP_EMIFA13
DSP_EMIFA14
DSP_EMIFA15
DSP_EMIFCE0Z
DSP_EMIFCE1Z
DSP_EMIFCE2Z
DSP_EMIFCE3Z
DSP_EMIFWEZ
DSP_EMIFOEZ
14-C5
14-D5
14-C3
14-D3


VCC1V8
VCC1V8
R201
R202
R203
R204
4.7K
4.7K
4.7K
4.7K
J2
4-C2 DSP_TMS
4-C2 DSP_TDI
4-D2 DSP_TDO
4-D2 DSP_TCK
1 2
3 4
5 6
7 8
DSP_nTRST 4-C2
HEADER2X4
C217
8.2pF
R205
49.9
C218
0.1uF
R206
4.75K_NC
VCC1V8
R82
R83
4.7K
4.7K
U13
JTAG / EMU / DFT
4-B5 DSP_nTRST P28 NTRST
4-B3 DSP_TMS P29 TMS
4-B3 DSP_TDI P27 TDI
4-B3 DSP_TCK N29 TCK
4-B3 DSP_TDO R29 TDO
EMU00 AC29
EMU01 AC28
EMU02 AC27
EMU03 AC26
EMU04 AD29
EMU05 AD28
EMU06 AD27
EMU07 AE29
EMU08 AE28
EMU09 AF29
EMU10 AE27
EMU11 AF28
EMU12 AG29
EMU13 AD26
EMU14 AG28
EMU15 AG27
EMU16 AJ27
EMU17 AF27
EMU18 AH27
VCC1V8
R197 NC_0 N23 RSV03
R196 NC_0 N24 RSV02
R86 1K AH28 RSV01
R73 0 AH19 RSV08
R74 NC_0 AF19 RSV09
R166
4.7K
RESET / BOOT
5-F3 DSP_nRESET
R84 22 AC20 NPOR
R194 22 N25 NRESETFULL
R78 22 M29 NRESET
AE4 PACLKSEL
R77 22 M27 LRESETNNMIEN
AF2 CORESEL0
AD4 CORESEL1
AE6 CORESEL2
AE5 CORESEL3
R192 22 M25 NNMI
R193 22 N26 NLRESET
NRESETSTAT N27 T8
BOOTCOMPLETE AE2 T4
HOUT AD20 T9
R69
R79
R195
R85
R167
R58
R168
R60
4.7K NC
4.7K
4.7K
4.7K
4.7K
4.7K
4.7K
4.7K
TMS320C6671_4


U13
I2C
TIMER0
TIMER1
SPI UART
GPIO
RESERVED PINS
TMS320C6671_5
U1
N25Q128A11ESF40F
U6
M24M01-RMN6P
U18
MAX6412UK29-T
U4
SN74AVC4T245PWR
U2
SP3232ECY
J1
MOLEX5267-03
LD2
GREEN
LD1
GREEN
Q2
MMBT2222A
Q1
MMBT2222A
SW1
1101NEA
VCC1V8
VCC3V3
DSP_SCL
DSP_SDA
DSP_SPI_CS0
DSP_SPI_CLK
DSP_SPI_DI
DSP_SPI_DO
DSP_UARTTXD
DSP_UARTRXD
UARTTXD
UARTRXD
UARTRTS
UARTCTS
nRESET
EXT_nRESET
DSP_nRESET
tRP = (2.71 x 10) x CSRT + 275us
tRP = 500ms @ 0.18uF



Boot Configuration

DSP	Boot Mode	Primary Function	
		Pull Up	Pull Down
GPIO0	LENDIAN	Little Endian	Big Endian
GPIO1	BOOTMODE00	Boot Device	
GPIO2	BOOTMODE01	Boot Device	
GPIO3	BOOTMODE02	Boot Device	
GPIO4	BOOTMODE03	Device Cfg	
GPIO5	BOOTMODE04	Device Cfg	
GPIO6	BOOTMODE05	Device Cfg	
GPIO7	BOOTMODE06	Device Cfg	
GPIO8	BOOTMODE07	Device Cfg	
GPIO9	BOOTMODE08	Device Cfg	
GPIO10	BOOTMODE09	Device Cfg	
GPIO11	BOOTMODE10	PLL Multiplier / I2C	
GPIO12	BOOTMODE11	PLL Multiplier / I2C	
GPIO13	BOOTMODE12	PLL Multiplier / I2C	
GPIO14	PCIESSMODE0	Endpt / RootComplex	
GPIO15	PCIESSMODE1	Endpt / RootComplex	

Boot Device

GPIO 3 2 1	BOOT Device	NOTE
0 0 0	EMIF16	
0 0 1	sRIO	
0 1 0	SMGII	PA driven from core clk
0 1 1	SGMII	PA driven from PA clk
1 0 0	PCIe	
1 0 1	I2C	
1 1 0	SPI	
1 1 1	HyperLink	

Device Configuration

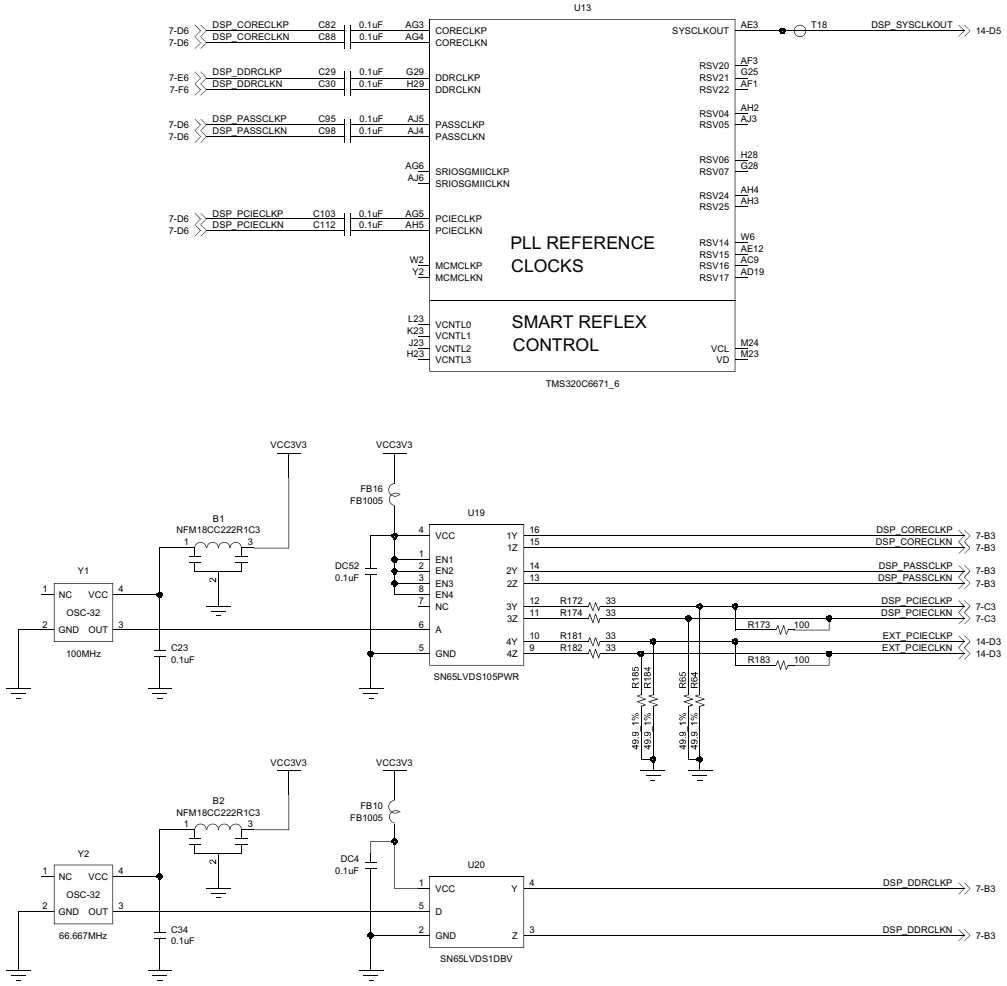
GPIO [10:4]	Device Configuration Field	The device configuration fields GPIO[10:4] are used to configure the boot peripheral and, therefore, the bit definitions depend on the boot mode.

PLL Settings

GPIO 13 12 11	INPUT CLK (MHz)	CorePac System PLL Configuration
0 0 0	50.00	
0 0 1	66.67	
0 1 0	80.00	PA driven from core clk
0 1 1	100.00	PA driven from PA clk
1 0 0	156.25	
1 0 1	250.00	
1 1 0	312.50	
1 1 1	122.88	

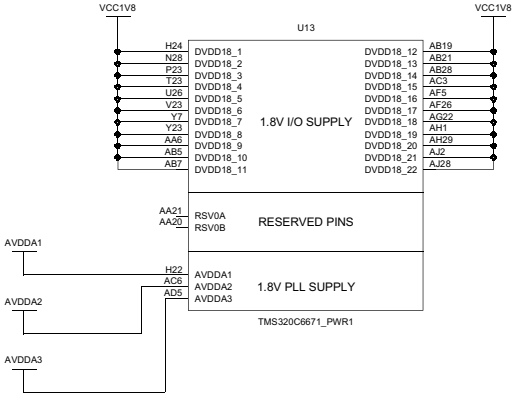
PCIe Mode selection(PCIESSMODE[1:0])

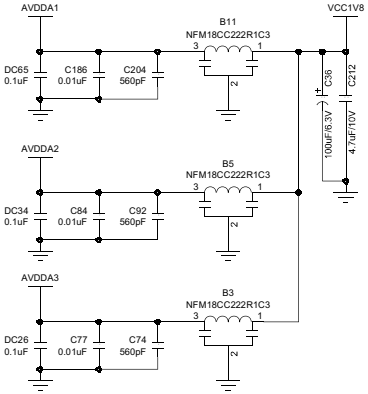
GPIO[15:14] INPUT	Description
00b	PCIe in End-point mode
01b	PCIe in Legacy End-point mode (no support for MSI)
10b	PCIe in Legacy Root complex mode

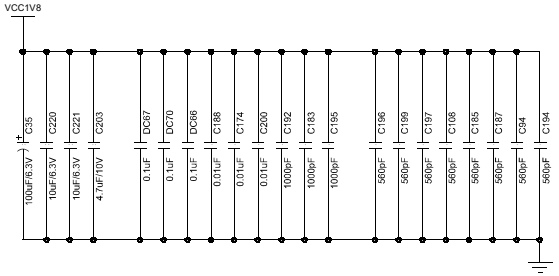

U13
PLL REFERENCE CLOCKS
SMART REFLEX CONTROL
TMS320C6671_6
DSP_CORECLKP
DSP_CORECLKN
DSP_DDRCLKP
DSP_DDRCLKN
DSP_PASSCLKP
DSP_PASSCLKN
DSP_PCIECLKP
DSP_PCIECLKN
SRIOSGMIICLKP
SRIOSGMIICLKN
MCMCLKP
MCMCLKN
VCNTL0
VCNTL1
VCNTL2
VCNTL3
SYSCLKOUT
T18
DSP_SYSCLKOUT
VCL
VD
VCC3V3
FB16
FB1005
B1
NFM18CC222R1C3
Y1
NC
VCC
OSC-32
GND
OUT
100MHz
C23
0.1uF
DC52
U19
EN1
EN2
EN3
EN4
A
GND
1Y
1Z
2Y
2Z
3Y
3Z
4Y
4Z
SN65LVDS105PWR
R172
R174
R181
R182
R173
R183
R185
R184
R65
R64
49.9 1%
EXT_PCIECLKP
EXT_PCIECLKN
FB10
B2
Y2
66.667MHz
C34
DC4
U20
SN65LVDS1DBV

1	2	3	4	5	6	7

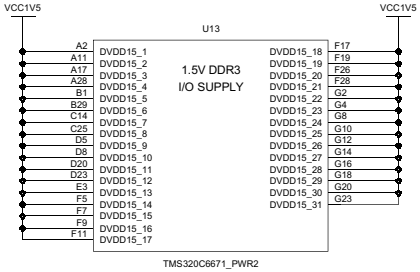
1.8V

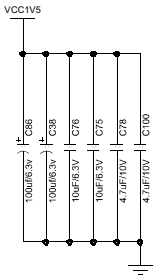

VCC1V8
U13
VCC1V8
H24 DVDD18_1
N28 DVDD18_2
P23 DVDD18_3
T23 DVDD18_4
U26 DVDD18_5
V23 DVDD18_6
Y7 DVDD18_7
Y23 DVDD18_8
AA6 DVDD18_9
AB5 DVDD18_10
AB7 DVDD18_11
1.8V I/O SUPPLY
DVDD18_12 AB19
DVDD18_13 AB21
DVDD18_14 AB28
DVDD18_15 AC3
DVDD18_16 AF5
DVDD18_17 AF26
DVDD18_18 AG22
DVDD18_19 AH1
DVDD18_20 AH29
DVDD18_21 AJ2
DVDD18_22 AJ28
AA21 RSV0A
AA20 RSV0B
RESERVED PINS
AVDDA1
H22 AVDDA1
AC6 AVDDA2
AD5 AVDDA3
1.8V PLL SUPPLY
AVDDA2
AVDDA3
TMS320C6671_PWR1

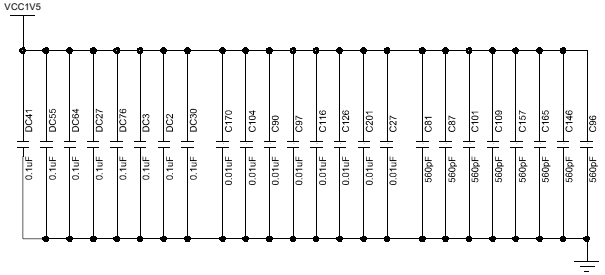

AVDDA1
B11
NFM18CC222R1C3
VCC1V8
DC65 0.1uF
C186 0.01uF
C204 560pF
C36 100uF/6.3V
C212 4.7uF/10V
AVDDA2
B5
NFM18CC222R1C3
DC34 0.1uF
C84 0.01uF
C92 560pF
AVDDA3
B3
NFM18CC222R1C3
DC26 0.1uF
C77 0.01uF
C74 560pF


VCC1V8
C35 100uF/6.3V
C220 10uF/6.3V
C221 10uF/6.3V
C203 4.7uF/10V
DC67 0.1uF
DC70 0.1uF
DC66 0.1uF
C188 0.01uF
C174 0.01uF
C200 0.01uF
C192 1000pF
C183 1000pF
C195 1000pF
C196 560pF
C199 560pF
C197 560pF
C108 560pF
C185 560pF
C187 560pF
C94 560pF
C194 560pF

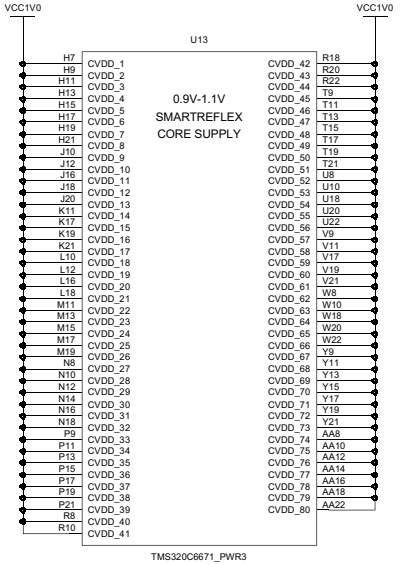
1.5V

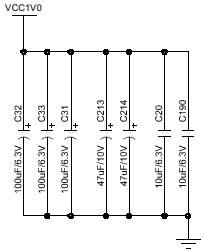

VCC1V5
U13
VCC1V5
A2 DVDD15_1
A11 DVDD15_2
A17 DVDD15_3
A28 DVDD15_4
B1 DVDD15_5
B29 DVDD15_6
C14 DVDD15_7
C25 DVDD15_8
D5 DVDD15_9
D8 DVDD15_10
D20 DVDD15_11
D23 DVDD15_12
E3 DVDD15_13
F5 DVDD15_14
F7 DVDD15_15
F9 DVDD15_16
F11 DVDD15_17
1.5V DDR3
I/O SUPPLY
DVDD15_18 F17
DVDD15_19 F19
DVDD15_20 F26
DVDD15_21 F28
DVDD15_22 G2
DVDD15_23 G4
DVDD15_24 G8
DVDD15_25 G10
DVDD15_26 G12
DVDD15_27 G14
DVDD15_28 G16
DVDD15_29 G18
DVDD15_30 G20
DVDD15_31 G23
TMS320C6671_PWR2

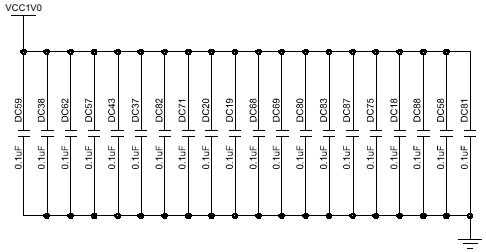

VCC1V5
C86 100uf/6.3v
C38 100uf/6.3v
C76 10uF/6.3V
C75 10uF/6.3V
C78 4.7uF/10V
C100 4.7uF/10V

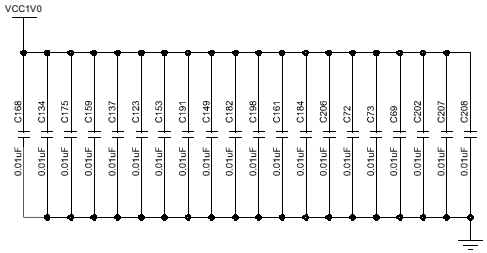

VCC1V5
DC41 0.1uF
DC55 0.1uF
DC64 0.1uF
DC27 0.1uF
DC76 0.1uF
DC3 0.1uF
DC2 0.1uF
DC30 0.1uF
C170 0.01uF
C104 0.01uF
C90 0.01uF
C97 0.01uF
C116 0.01uF
C126 0.01uF
C201 0.01uF
C27 0.01uF
C81 560pF
C87 560pF
C101 560pF
C109 560pF
C157 560pF
C165 560pF
C146 560pF
C96 560pF

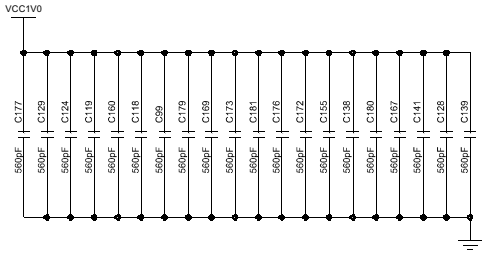
CVDD (Smart Reflex)



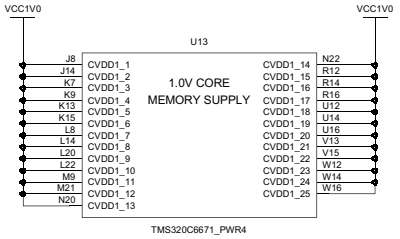


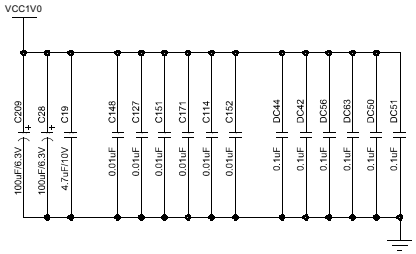


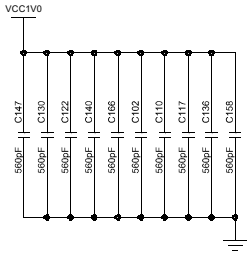




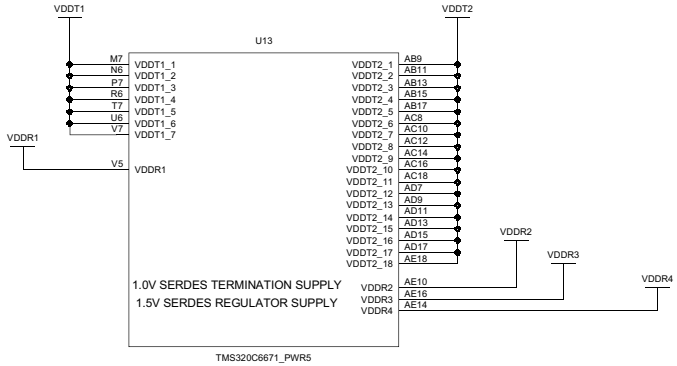
VCC1V0

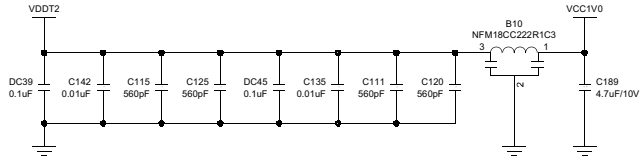


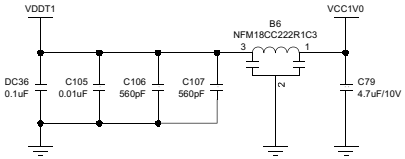


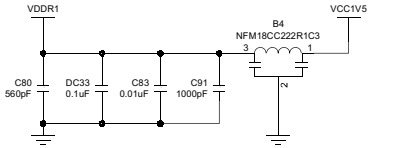


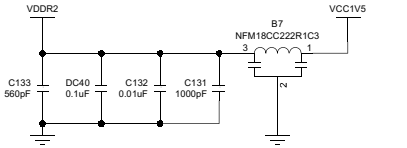
1.0V & 1.5V for Serdes

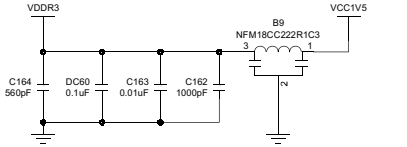


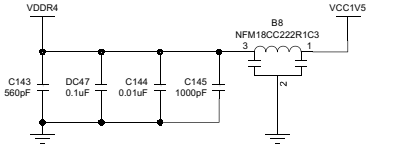


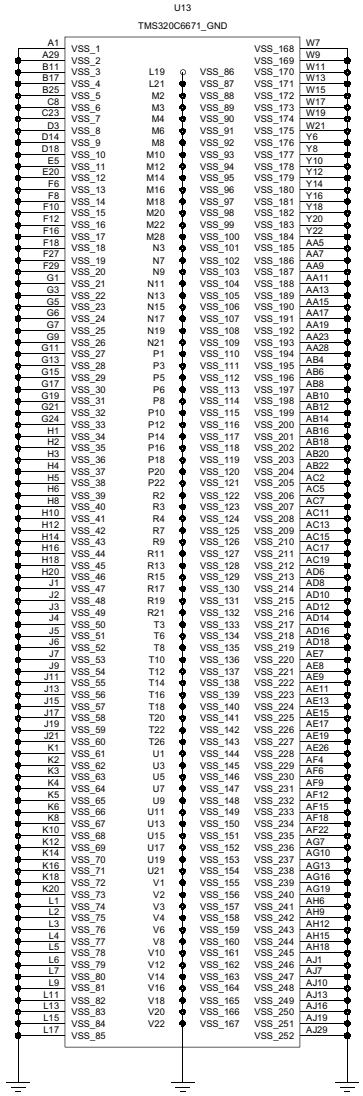


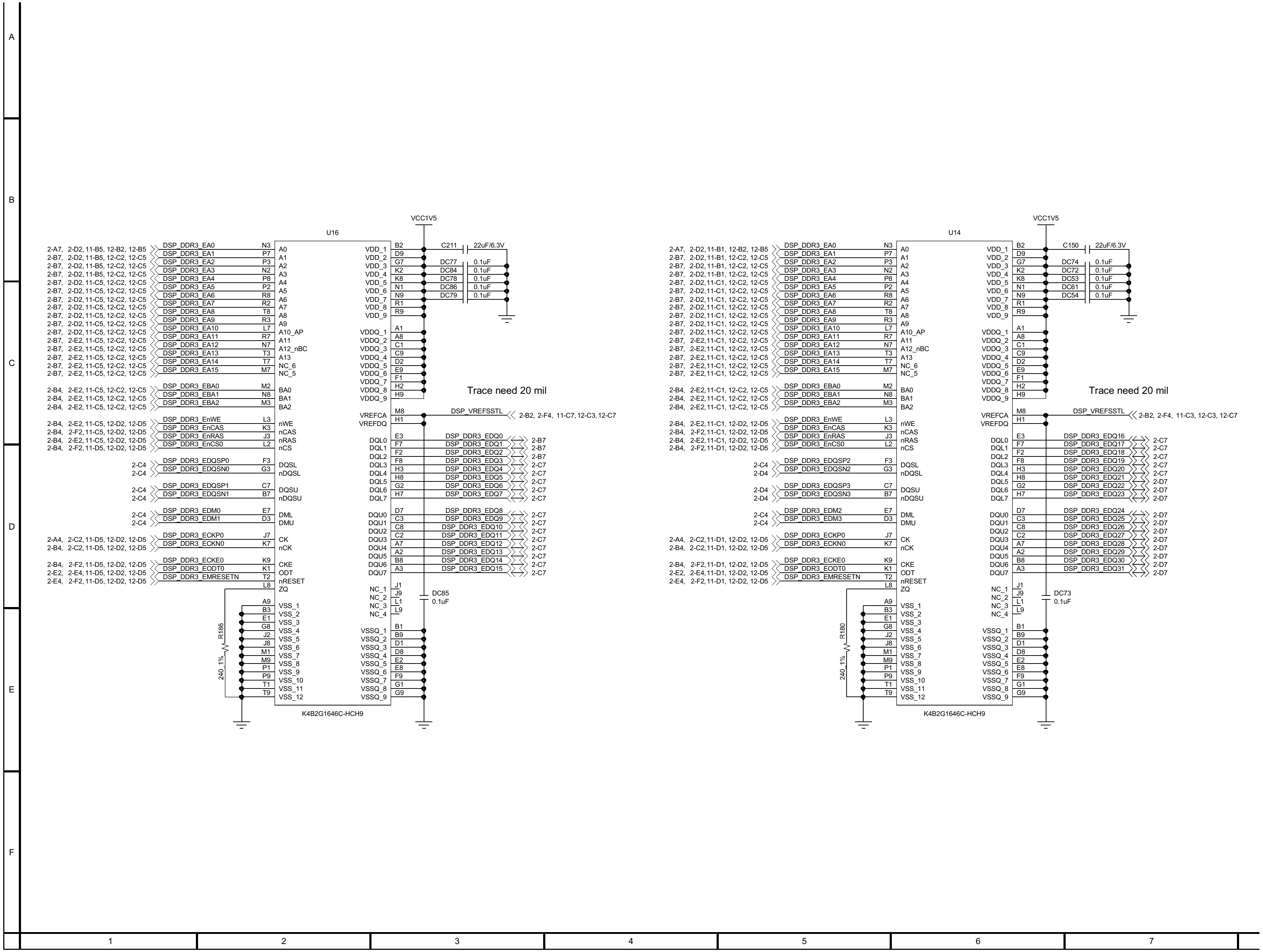




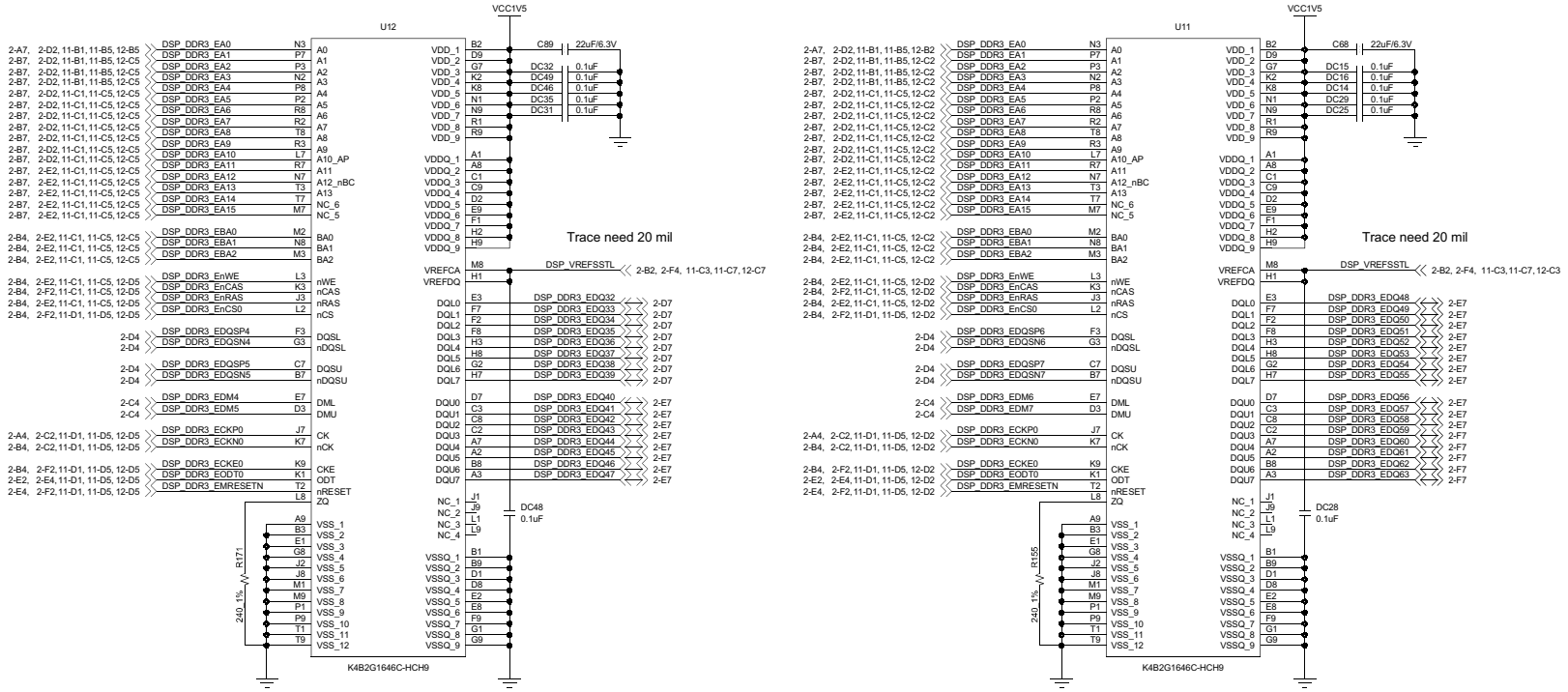


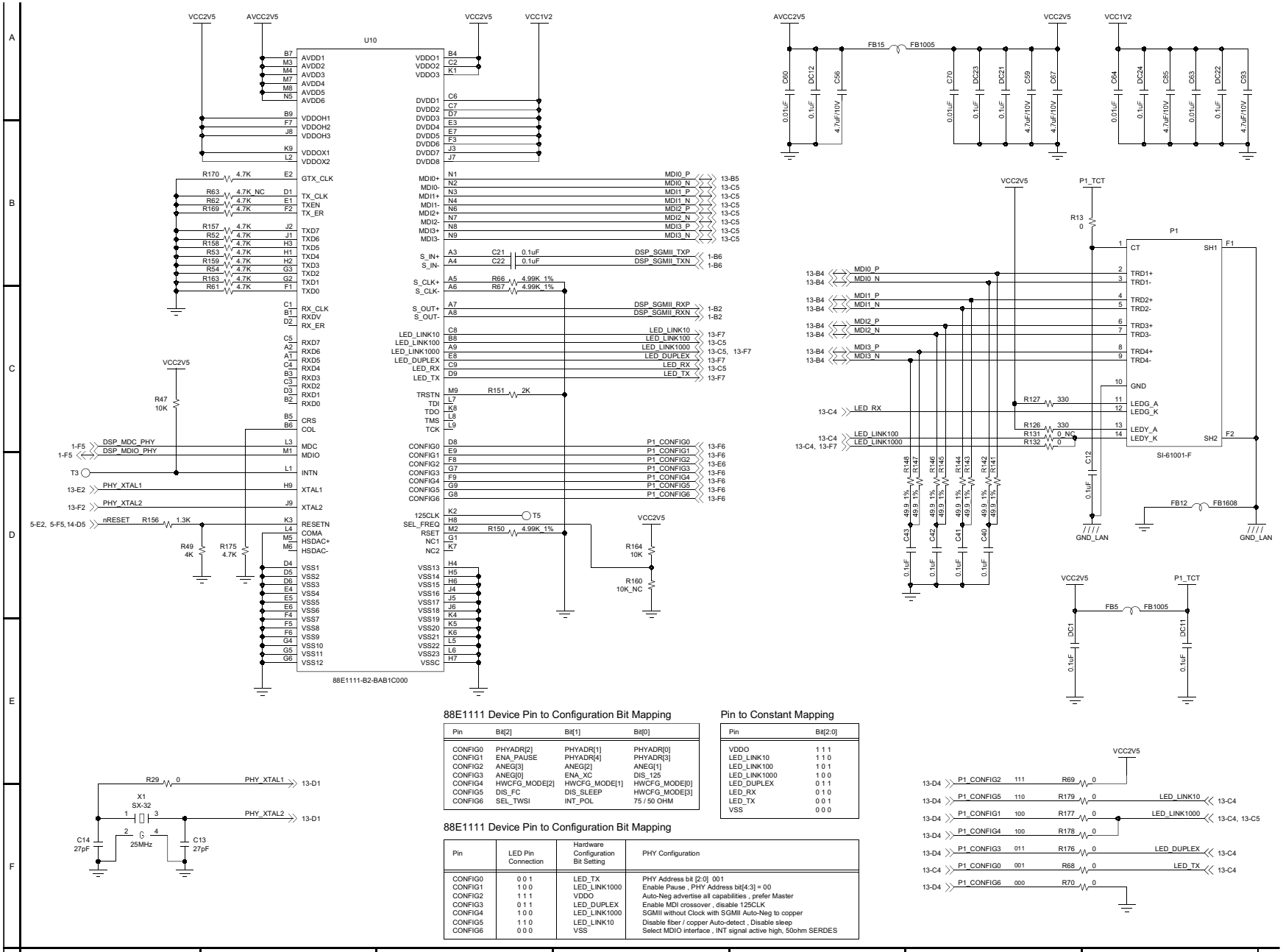






U16
U14
VCC1V5
C211 22uF/6.3V
C150 22uF/6.3V
DC77 DC84 DC78 DC86 DC79 0.1uF
DC74 DC72 DC53 DC61 DC54 0.1uF
Trace need 20 mil
DSP_VREFSSTL
2-B2, 2-F4, 11-C7, 12-C3, 12-C7
2-B2, 2-F4, 11-C3, 12-C3, 12-C7
DC85 0.1uF
DC73 0.1uF
R186 240_1%
R180 240_1%
K4B2G1646C-HCH9
DSP_DDR3_EA0 … DSP_DDR3_EA15
DSP_DDR3_EBA0 DSP_DDR3_EBA1 DSP_DDR3_EBA2
DSP_DDR3_EnWE DSP_DDR3_EnCAS DSP_DDR3_EnRAS DSP_DDR3_EnCS0
DSP_DDR3_EDQSP0 DSP_DDR3_EDQSN0 DSP_DDR3_EDQSP1 DSP_DDR3_EDQSN1
DSP_DDR3_EDQSP2 DSP_DDR3_EDQSN2 DSP_DDR3_EDQSP3 DSP_DDR3_EDQSN3
DSP_DDR3_EDM0 DSP_DDR3_EDM1 DSP_DDR3_EDM2 DSP_DDR3_EDM3
DSP_DDR3_ECKP0 DSP_DDR3_ECKN0
DSP_DDR3_ECKE0 DSP_DDR3_EODT0 DSP_DDR3_EMRESETN
DSP_DDR3_EDQ0 … DSP_DDR3_EDQ31
A B C D E F
1 2 3 4 5 6 7


U12
VCC1V5
C89
22uF/6.3V
DC32
DC49
DC46
DC35
DC31
0.1uF
Trace need 20 mil
DSP_VREFSSTL
2-B2, 2-F4, 11-C3,11-C7,12-C7
DC48
0.1uF
R171
240 1%
K4B2G1646C-HCH9
U11
VCC1V5
C68
22uF/6.3V
DC15
DC16
DC14
DC29
DC25
0.1uF
Trace need 20 mil
DSP_VREFSSTL
2-B2, 2-F4, 11-C3,11-C7,12-C3
DC28
0.1uF
R155
240 1%
K4B2G1646C-HCH9



88E1111 Device Pin to Configuration Bit Mapping

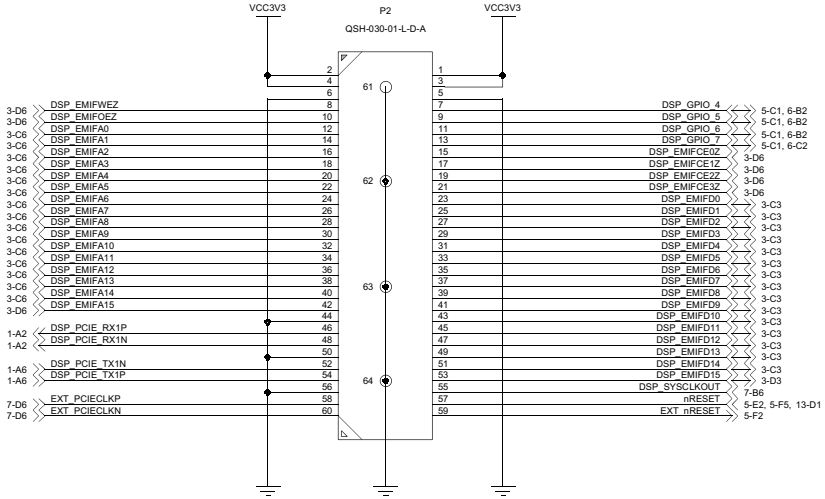
Pin	Bit[2]	Bit[1]	Bit[0]
CONFIG0	PHYADR[2]	PHYADR[1]	PHYADR[0]
CONFIG1	ENA_PAUSE	PHYADR[4]	PHYADR[3]
CONFIG2	ANEG[3]	ANEG[2]	ANEG[1]
CONFIG3	ANEG[0]	ENA_XC	DIS_125
CONFIG4	HWCFG_MODE[2]	HWCFG_MODE[1]	HWCFG_MODE[0]
CONFIG5	DIS_FC	DIS_SLEEP	HWCFG_MODE[3]
CONFIG6	SEL_TWSI	INT_POL	75 / 50 OHM

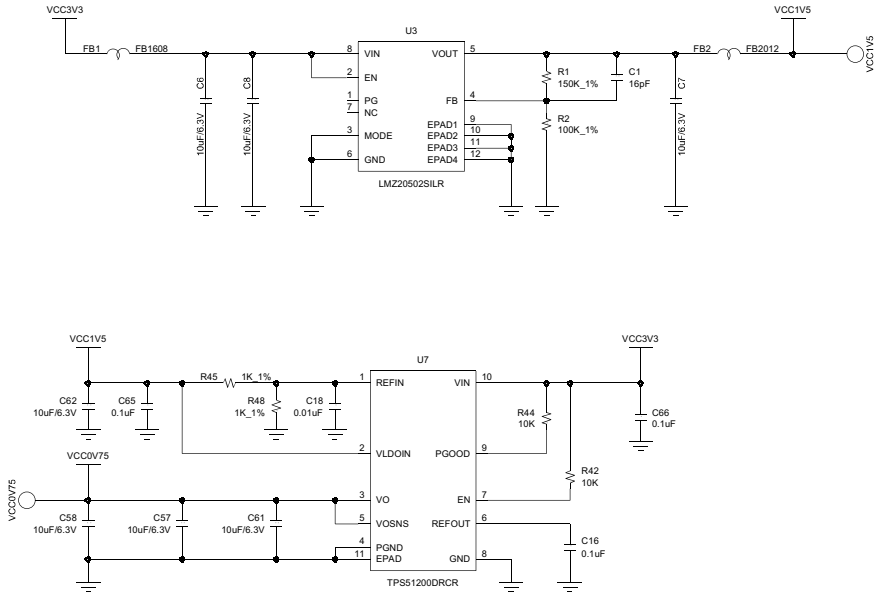
Pin to Constant Mapping

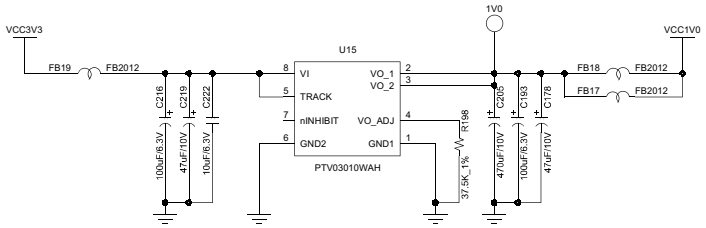
Pin	Bit[2:0]
VDDO	1 1 1
LED_LINK10	1 1 0
LED_LINK100	1 0 1
LED_LINK1000	1 0 0
LED_DUPLEX	0 1 1
LED_RX	0 1 0
LED_TX	0 0 1
VSS	0 0 0

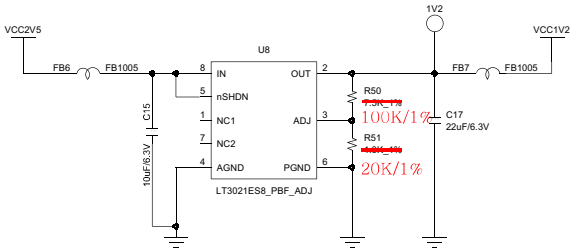
88E1111 Device Pin to Configuration Bit Mapping

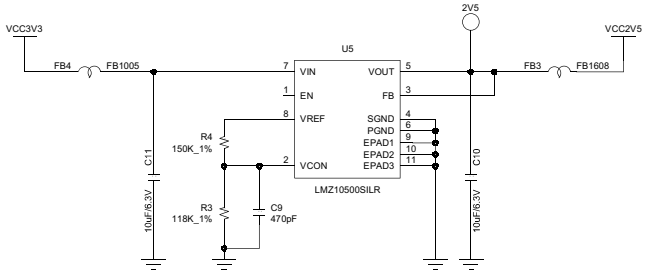
Pin	LED Pin Connection	Hardware Configuration Bit Setting	PHY Configuration
CONFIG0	0 0 1	LED_TX	PHY Address bit [2:0] 001
CONFIG1	1 0 0	LED_LINK1000	Enable Pause , PHY Address bit[4:3] = 00
CONFIG2	1 1 1	VDDO	Auto-Neg advertise all capabilities , prefer Master
CONFIG3	0 1 1	LED_DUPLEX	Enable MDI crossover , disable 125CLK
CONFIG4	1 0 0	LED_LINK1000	SGMII without Clock with SGMII Auto-Neg to copper
CONFIG5	1 1 0	LED_LINK10	Disable fiber / copper Auto-detect , Disable sleep
CONFIG6	0 0 0	VSS	Select MDIO interface , INT signal active high, 50ohm SERDES

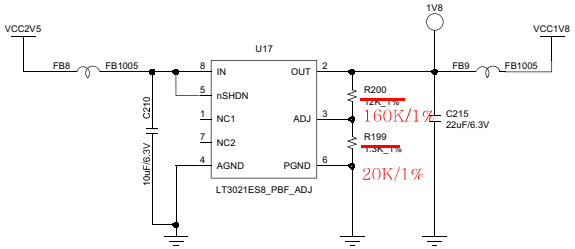

VCC3V3
P2
QSH-030-01-L-D-A
VCC3V3
61
62
63
64
3-D6 DSP_EMIFWEZ 8
3-D6 DSP_EMIFOEZ 10
3-C6 DSP_EMIFA0 12
3-C6 DSP_EMIFA1 14
3-C6 DSP_EMIFA2 16
3-C6 DSP_EMIFA3 18
3-C6 DSP_EMIFA4 20
3-C6 DSP_EMIFA5 22
3-C6 DSP_EMIFA6 24
3-C6 DSP_EMIFA7 26
3-C6 DSP_EMIFA8 28
3-C6 DSP_EMIFA9 30
3-C6 DSP_EMIFA10 32
3-C6 DSP_EMIFA11 34
3-C6 DSP_EMIFA12 36
3-C6 DSP_EMIFA13 38
3-C6 DSP_EMIFA14 40
3-C6 DSP_EMIFA15 42
3-D6 44
1-A2 DSP_PCIE_RX1P 46
1-A2 DSP_PCIE_RX1N 48
50
1-A6 DSP_PCIE_TX1N 52
1-A6 DSP_PCIE_TX1P 54
56
7-D6 EXT_PCIECLKP 58
7-D6 EXT_PCIECLKN 60
7 DSP_GPIO_4 5-C1, 6-B2
9 DSP_GPIO_5 5-C1, 6-B2
11 DSP_GPIO_6 5-C1, 6-B2
13 DSP_GPIO_7 5-C1, 6-C2
15 DSP_EMIFCE0Z 3-D6
17 DSP_EMIFCE1Z 3-D6
19 DSP_EMIFCE2Z 3-D6
21 DSP_EMIFCE3Z 3-D6
23 DSP_EMIFD0 3-C3
25 DSP_EMIFD1 3-C3
27 DSP_EMIFD2 3-C3
29 DSP_EMIFD3 3-C3
31 DSP_EMIFD4 3-C3
33 DSP_EMIFD5 3-C3
35 DSP_EMIFD6 3-C3
37 DSP_EMIFD7 3-C3
39 DSP_EMIFD8 3-C3
41 DSP_EMIFD9 3-C3
43 DSP_EMIFD10 3-C3
45 DSP_EMIFD11 3-C3
47 DSP_EMIFD12 3-C3
49 DSP_EMIFD13 3-C3
51 DSP_EMIFD14 3-C3
53 DSP_EMIFD15 3-C3
55 DSP_SYSCLKOUT 3-D3
57 nRESET 7-B6
59 EXT_nRESET 5-E2, 5-F5, 13-D1
5-F2

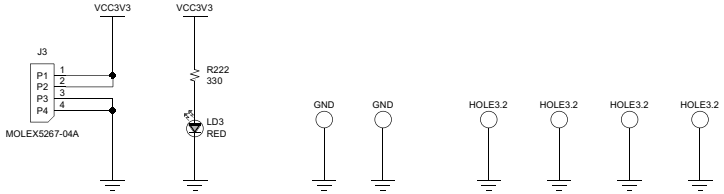

VCC3V3
FB1
FB1608
C6
10uF/6.3V
C8
10uF/6.3V
U3
8 VIN
2 EN
1 PG
7 NC
3 MODE
6 GND
VOUT 5
FB 4
EPAD1 9
EPAD2 10
EPAD3 11
EPAD4 12
LMZ20502SILR
R1
150K_1%
C1
16pF
R2
100K_1%
C7
10uF/6.3V
FB2
FB2012
VCC1V5
VCC1V5
VCC1V5
C62
10uF/6.3V
C65
0.1uF
R45
1K_1%
R48
1K_1%
C18
0.01uF
U7
1 REFIN
2 VLDOIN
3 VO
5 VOSNS
4 PGND
11 EPAD
VIN 10
PGOOD 9
EN 7
REFOUT 6
GND 8
TPS51200DRCR
R44
10K
R42
10K
VCC3V3
C66
0.1uF
VCC0V75
VCC0V75
C58
10uF/6.3V
C57
10uF/6.3V
C61
10uF/6.3V
C16
0.1uF

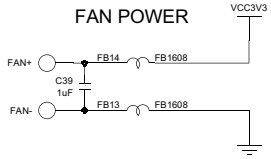

VCC3V3
FB19
FB2012
U15
VI
TRACK
nINHIBIT
GND2
VO_1
VO_2
VO_ADJ
GND1
PTV03010WAH
1V0
VCC1V0
FB18
FB2012
FB17
FB2012
C216
100uF/6.3V
C219
47uF/10V
C222
10uF/6.3V
R198
37.5K_1%
C205
470uF/10V
C193
100uF/6.3V
C178
47uF/10V


VCC2V5
FB6
FB1005
U8
IN
nSHDN
NC1
NC2
AGND
OUT
ADJ
PGND
LT3021ES8_PBF_ADJ
C15
10uF/6.3V
1V2
VCC1V2
FB7
FB1005
R50
100K/1%
C17
22uF/6.3V
R51
20K/1%


VCC3V3
FB4
FB1005
U5
VIN
EN
VREF
VCON
VOUT
FB
SGND
PGND
EPAD1
EPAD2
EPAD3
LMZ10500SILR
2V5
VCC2V5
FB3
FB1608
R4
150K_1%
R3
118K_1%
C9
470pF
C11
10uF/6.3V
C10
10uF/6.3V


VCC2V5
FB8
FB1005
U17
IN
nSHDN
NC1
NC2
AGND
OUT
ADJ
PGND
LT3021ES8_PBF_ADJ
C210
10uF/6.3V
1V8
VCC1V8
FB9
FB1005
R200
160K/1%
C215
22uF/6.3V
R199
20K/1%


VCC3V3
VCC3V3
J3
P1
P2
P3
P4
MOLEX5267-04A
R222
330
LD3
RED
GND
GND
HOLE3.2
HOLE3.2
HOLE3.2
HOLE3.2


FAN POWER
VCC3V3
FAN+
FB14
FB1608
C39
1uF
FAN-
FB13
FB1608