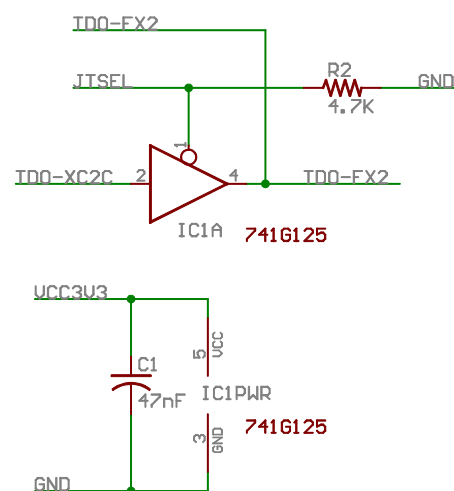
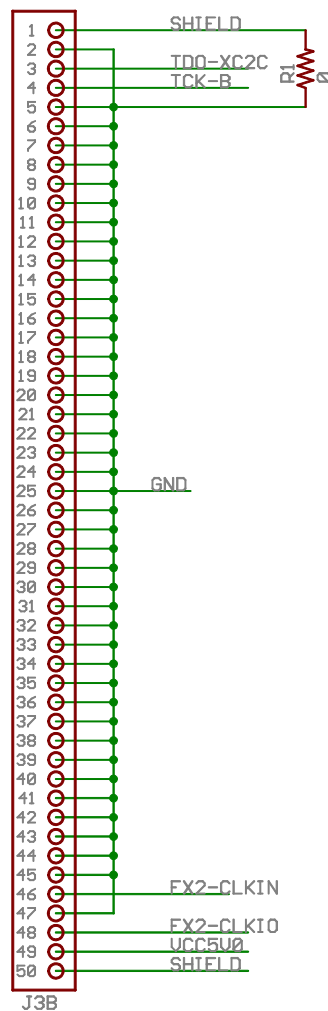
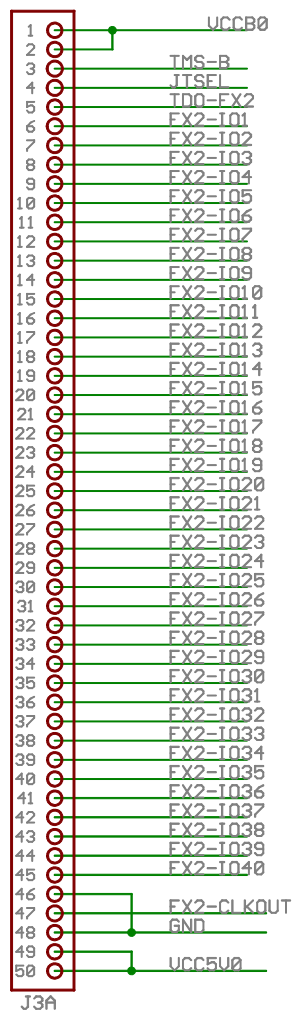
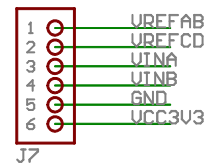
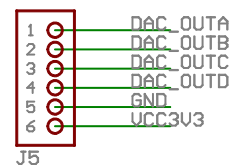
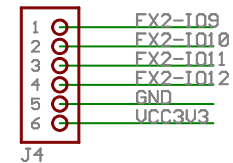
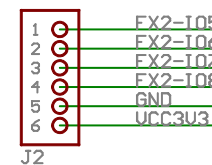
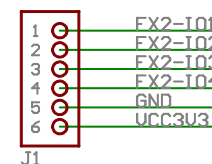




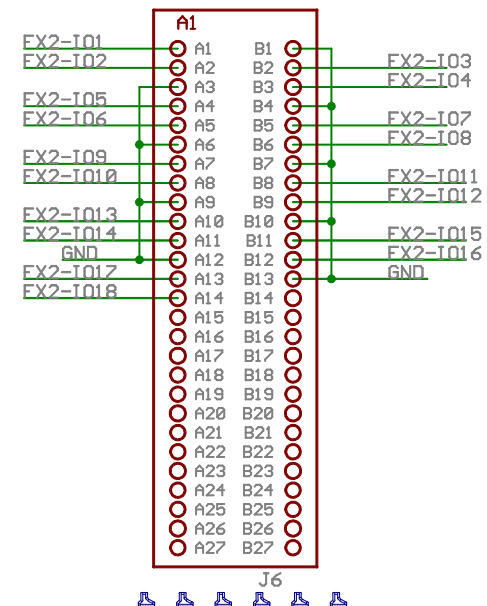
D/A and A/D header



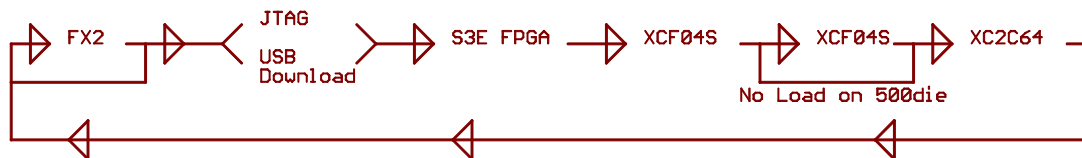
6 Pin Header Accessory



Full Size Soft Touch



JTAG Scan Chain



Spartan 3E Starter Board

Copyright 2004, 2005

Engineer: CC

SHEET: Hirose and Expansion Connectors

Author: GMA

TITLE: S3E Starter

Rev: C.1

Doc#: 500-087

Date: 11/1/05

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SPARTAN 3E

SPARTAN 3E

WEEE

Intel
Strataflash

Linear
Technology

Texas
Instruments

Xilinx
Platform
Flash

ST
Micro

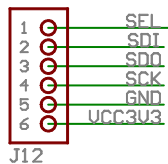
Digilent Inc.

Xilinx.com

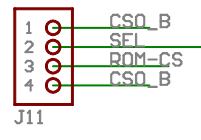
Micron

SMSC

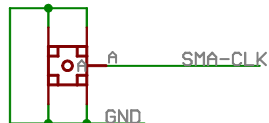
SPI Port



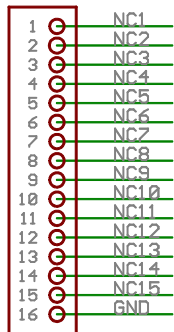
CS Jumper Select



SMA Clock



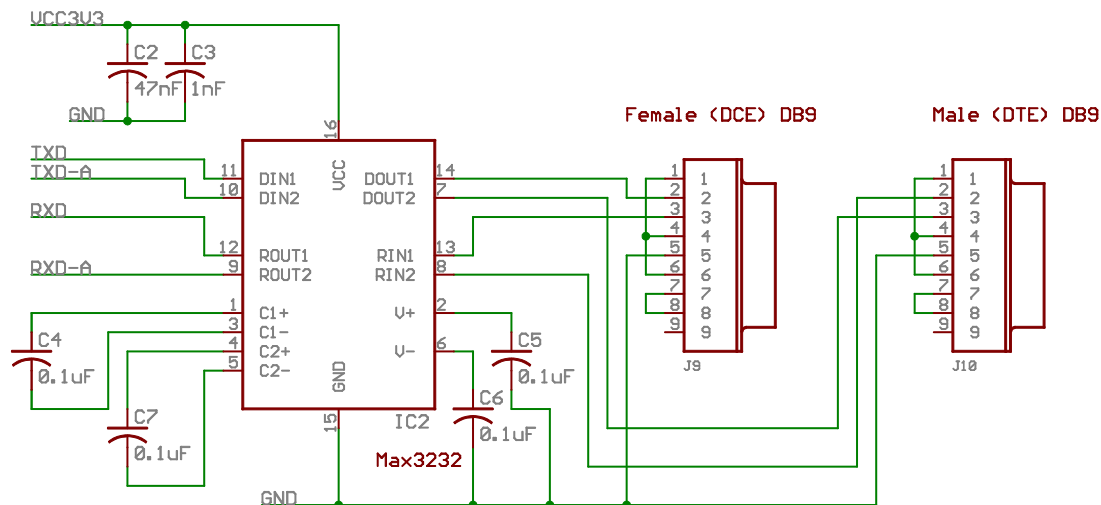
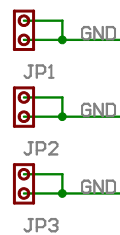
1200E/1600E Expansion Header



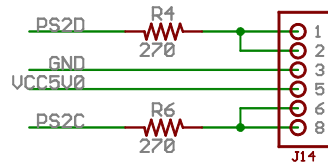
J16
Load on 1600E
No Load on 500E

- FID1
- FID2
- FID3
- FID4

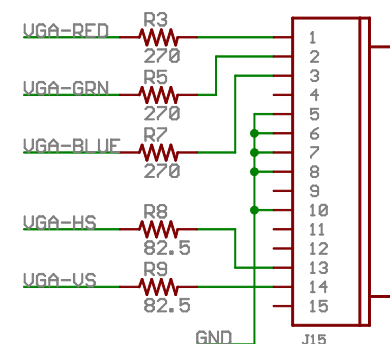
Ground Test/Storage Blocks



Keyboard PS2 connector



UGA Port



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Copyright 2004, 2005

Engineer: CC

SHEET: RS232, UGA, PS2 and Parallel I/O

Author: GMA

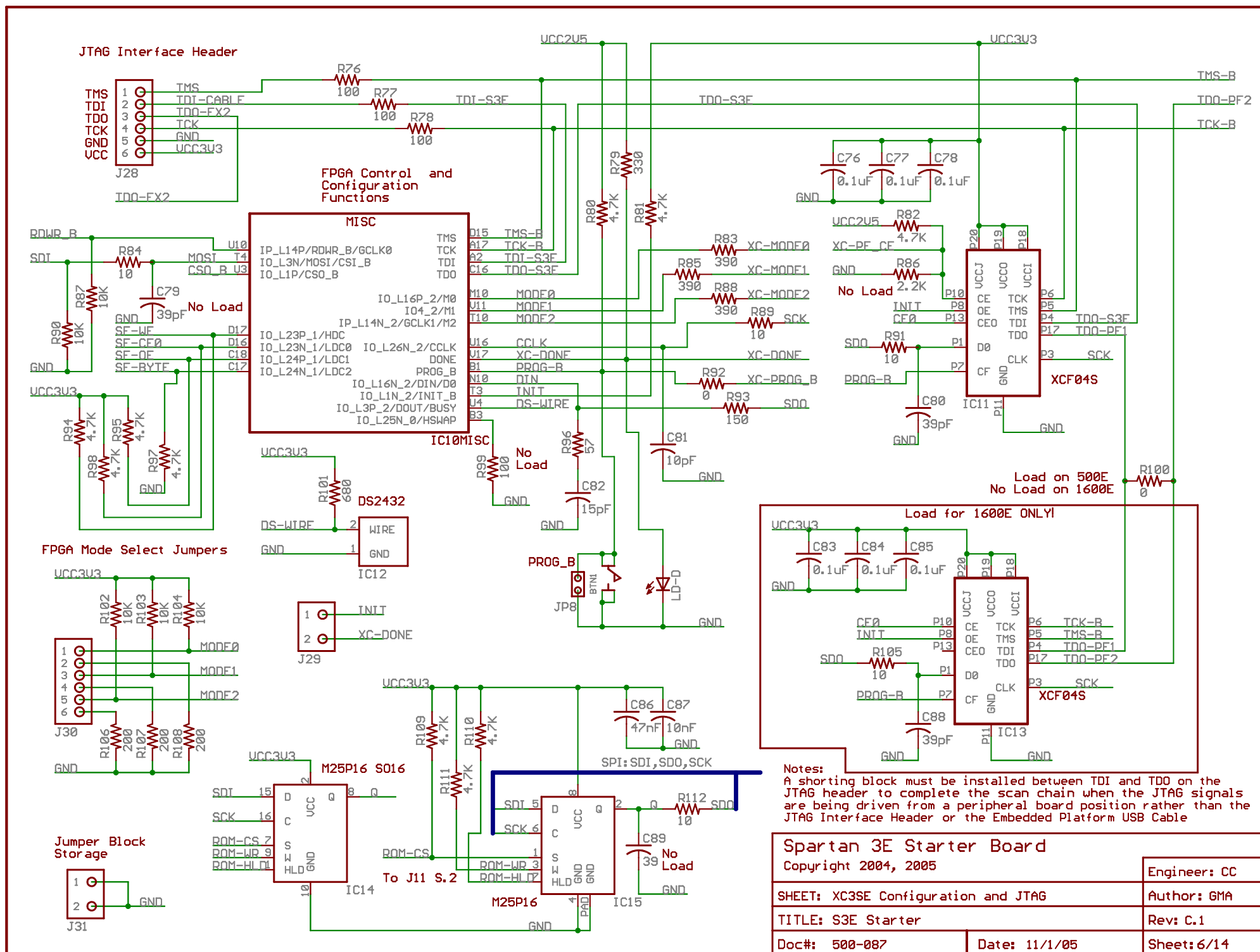
TITLE: S3E Starter

Rev: C.1

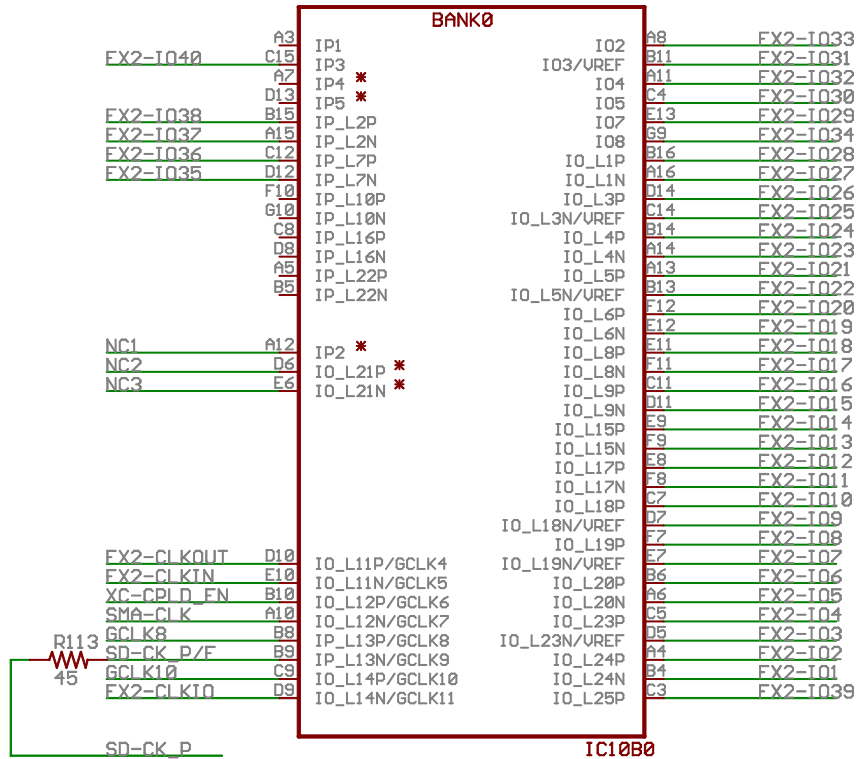
Doc#: 500-087

Date: 11/1/05

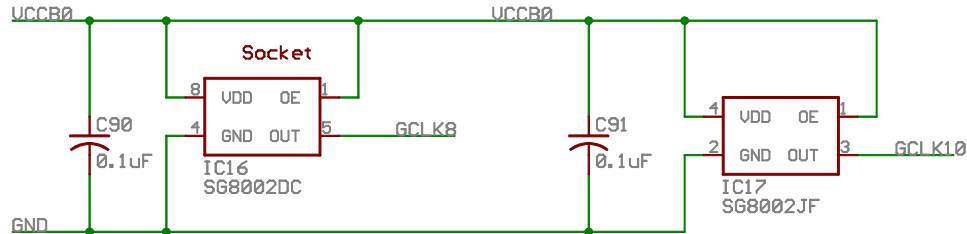
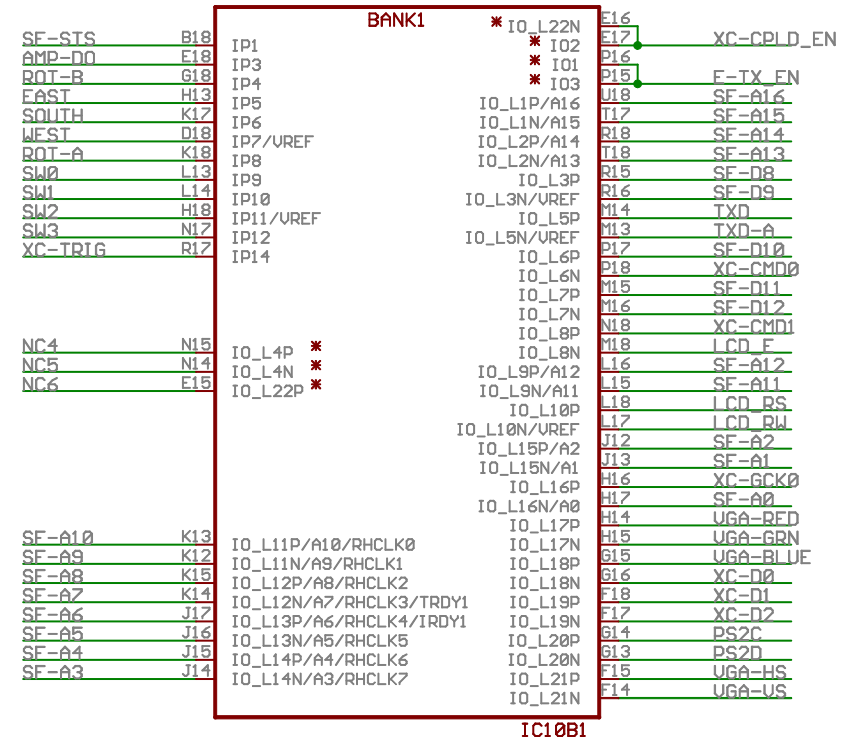
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UCC for Bank 0 is set By JP9 on Sheet 9



UCC for Bank 1 = 3.3V



* Notes are for pins that vary between 500/1200/1600 dies

AD - A/D Converter (11)
 AMP - Gain Amplifier (11)
 DAC - D/A converter (11)
 E- Ethernet (4)
 FX2 - Hirose FX2 Connector (1)
 ROM - M25P16 (6)
 SD- SD RAM (12)
 SF - StrataFlash (12)
 ST - Soft Touch Connector (1)
 U - USB (3)
 XC - XC9572 (10)

Spartan 3E Starter Board

Copyright 2004, 2005

Engineer: CC

SHEET: XC3SE Banks 0 and 1, Clock ICs

Author: GMA

TITLE: S3E Starter

Rev: C.1

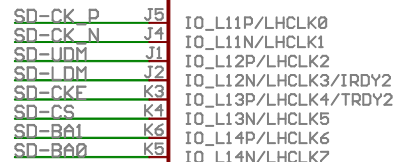
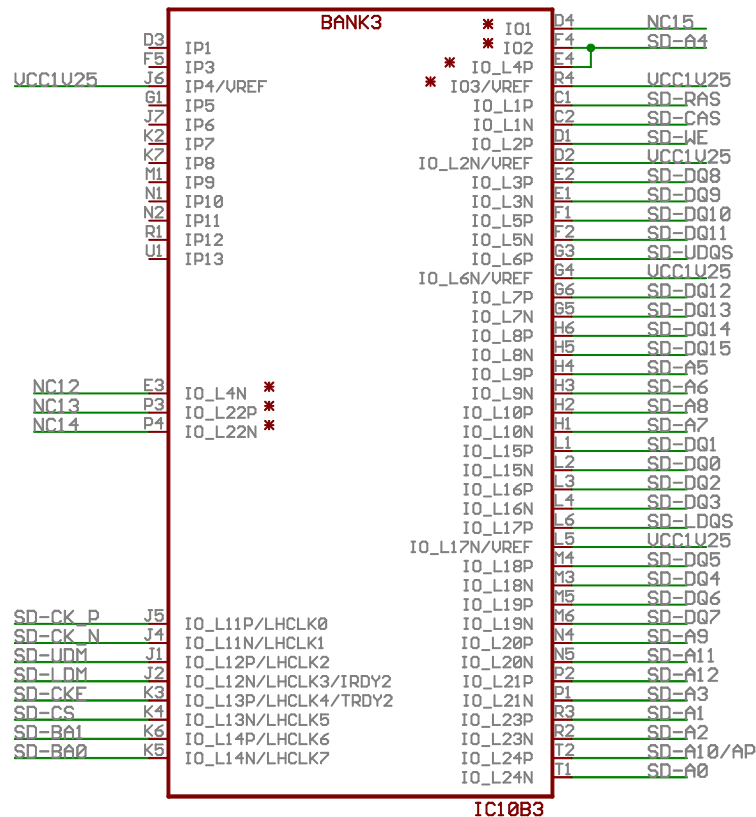
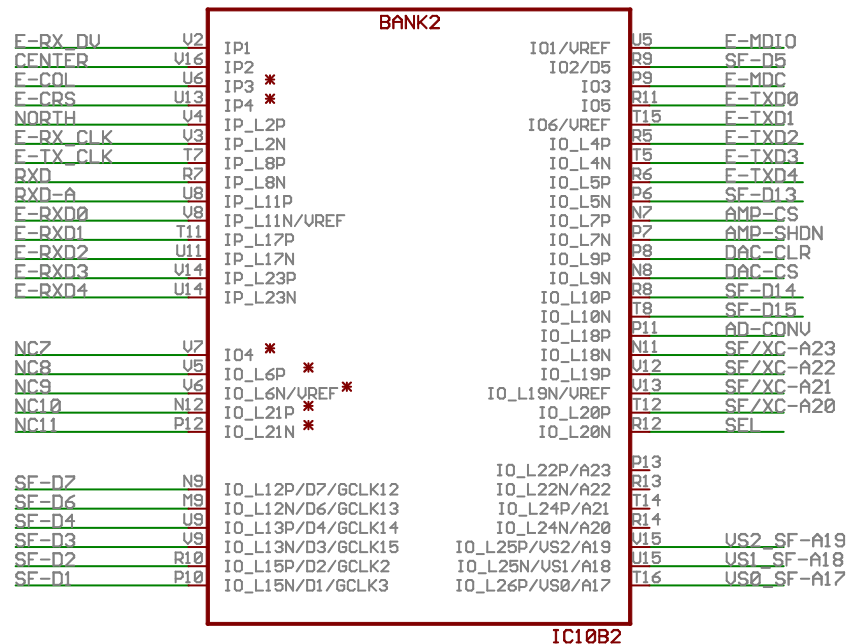
Doc#: 500-087

Date: 11/1/05

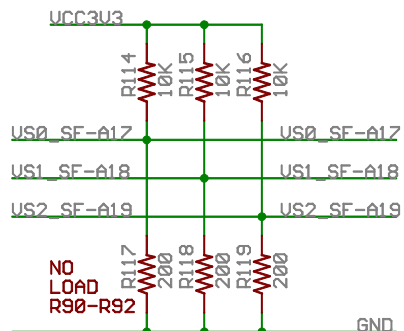
Sheet: 7/14

Ucc for Bank 2 = 3.3V

UCC vor Bank 3 = 2.5V DDR



AD - A/D Converter (11)
 AMP - Gain Amplifier (11)
 DAC - D/A converter (11)
 E- Ethernet (4)
 FX2 - Hirose FX2 Connector (1)
 ROM - M25P16 (6)
 SD- SD RAM (12)
 SF - StrataFlash (12)
 ST - Soft Touch Connector (1)
 U - USB (3)
 XC - XC9572 (10)



* Notes are for pins that vary between 500/1200/1600 dies

Spartan 3E Starter Board

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Engineer: CC

SHEET: XC3SE Banks 2 and 3

Author: GMA

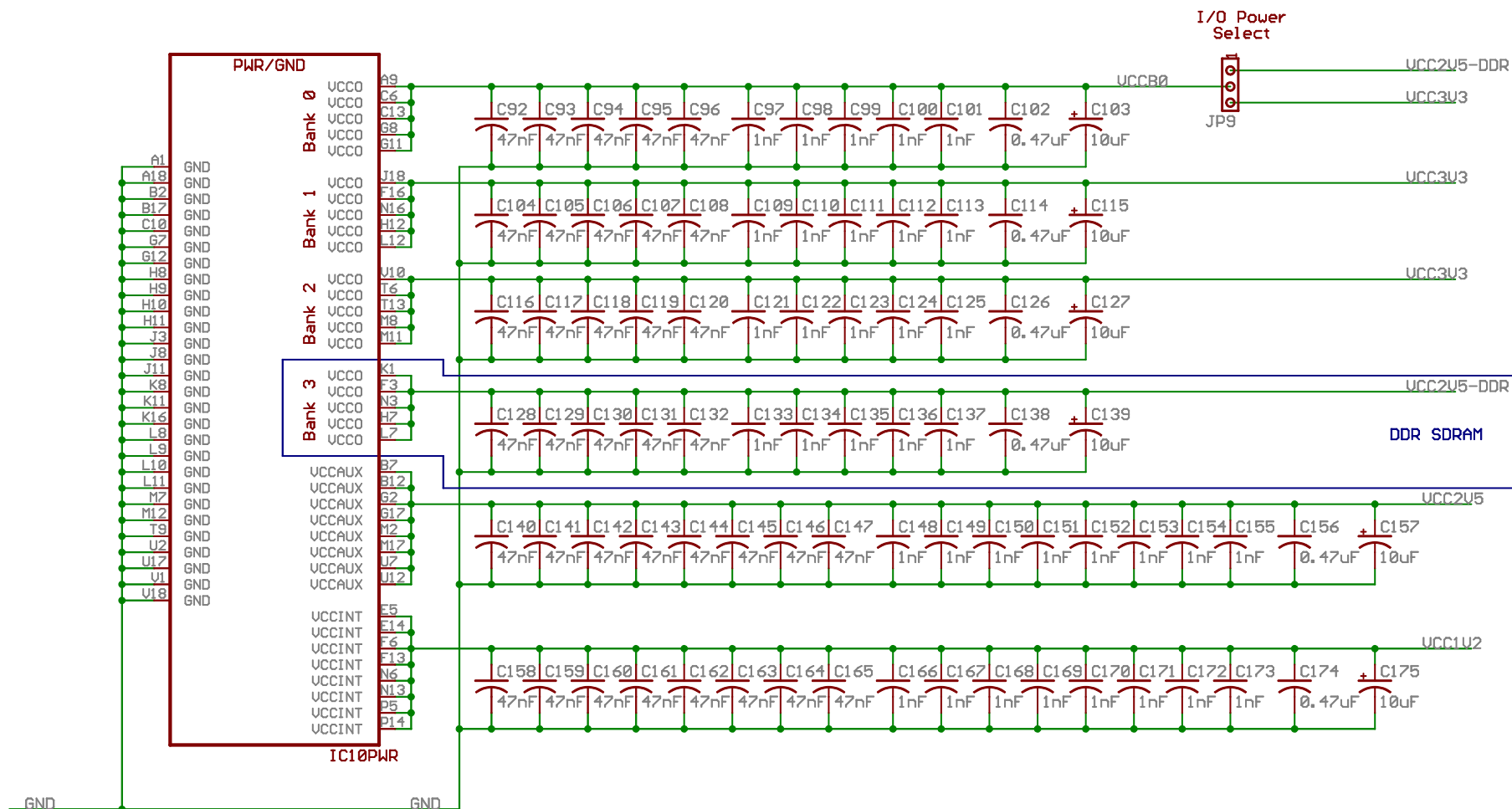
TITLE: S3E Starter

Rev: C.1

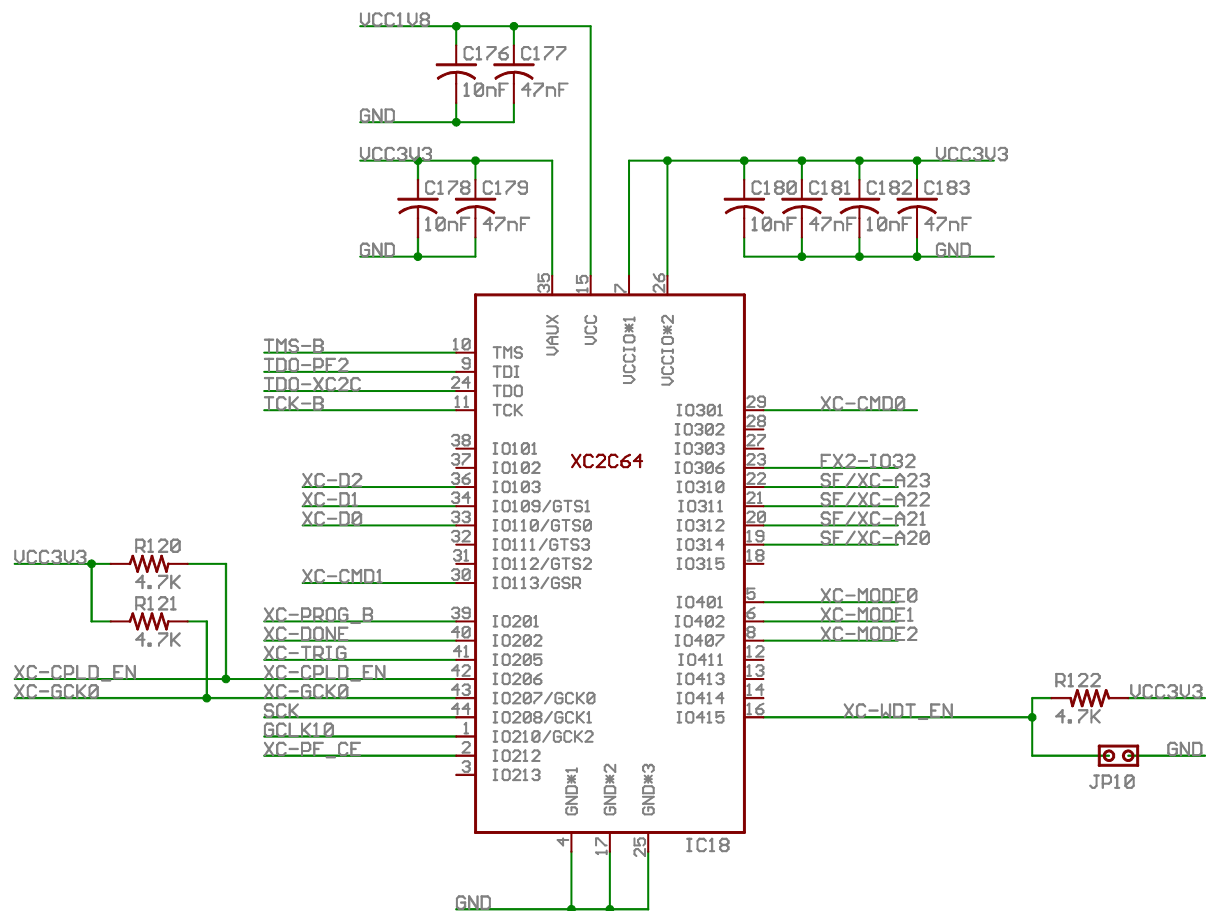
Doc#: 500-087

Date: 11/1/05

Sheet: 8/14



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Copyright 2004, 2005		Author: GMA	
SHEET: XC3SE Power Decoupling		Rev: C.1	
TITLE: S3E Starter		Date: 11/1/05	
Doc#: 500-087	Date: 11/1/05		Sheet: 9/14



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Engineer: CC

SHEET: XC2C64 CPLD

Author: GMA

TITLE: S3E Starter

Rev: C.1

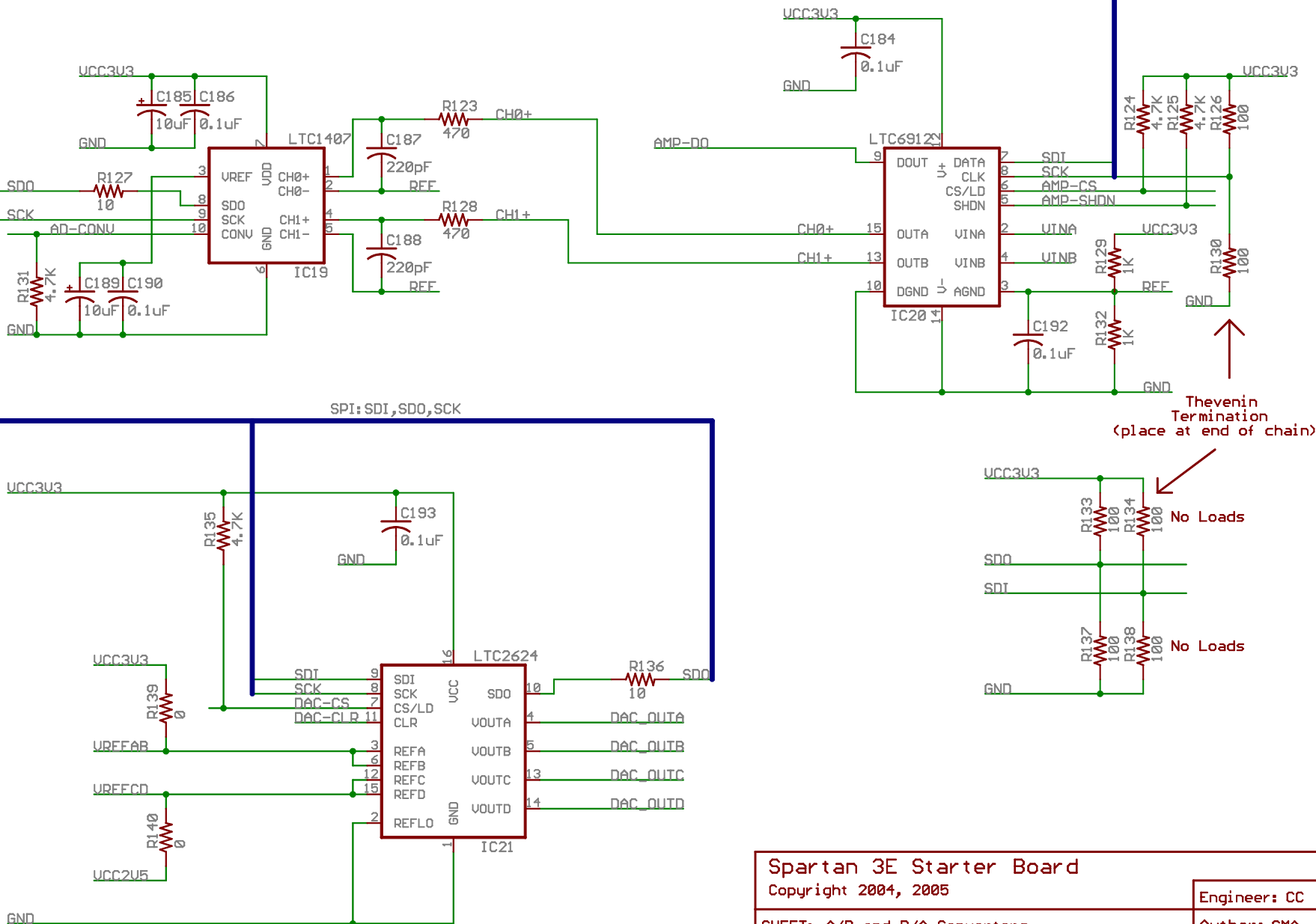
Doc#: 500-087

Date: 11/1/05

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SPI:SDI,SDO,SCK

SPI:SDI,SDO,SCK



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Engineer: CC

SHEET: A/D and D/A Converters

Author: GMA

TITLE: S3E Starter

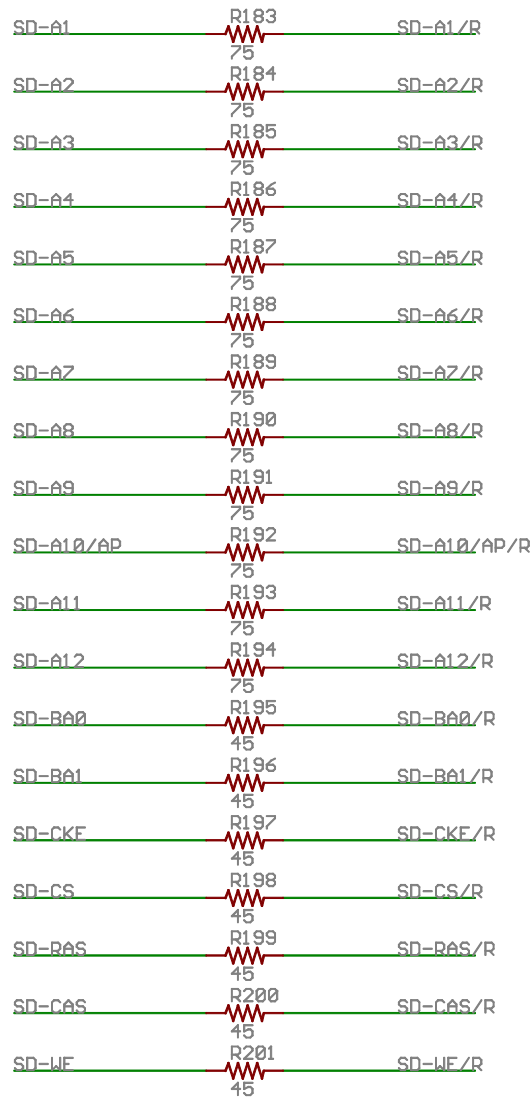
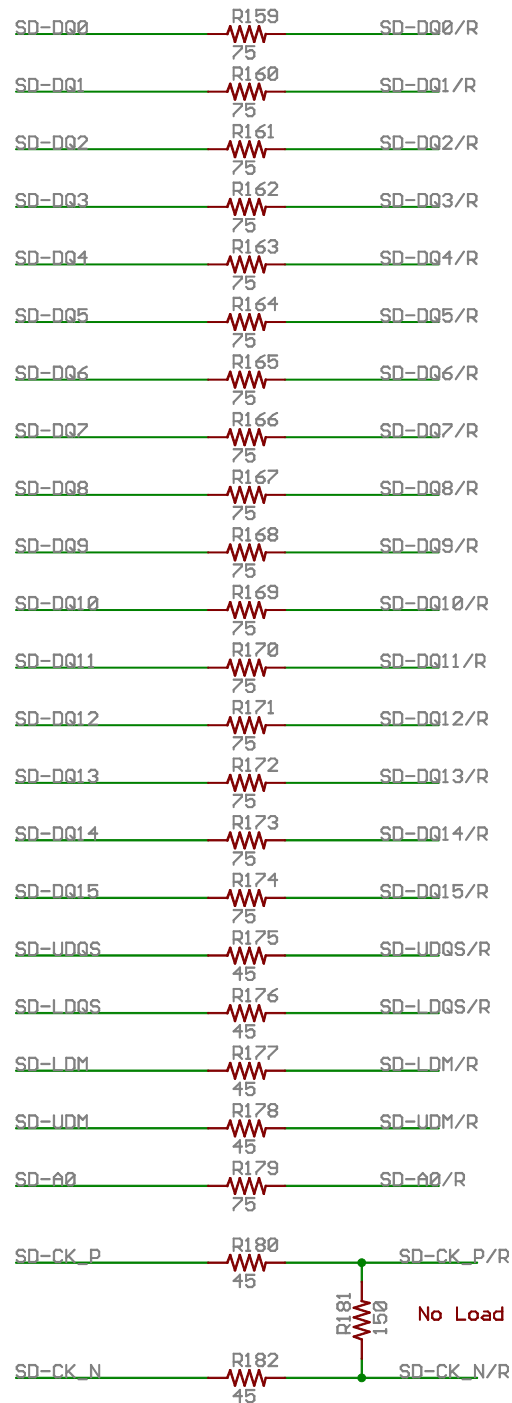
Rev: C.1

Doc#: 500-087

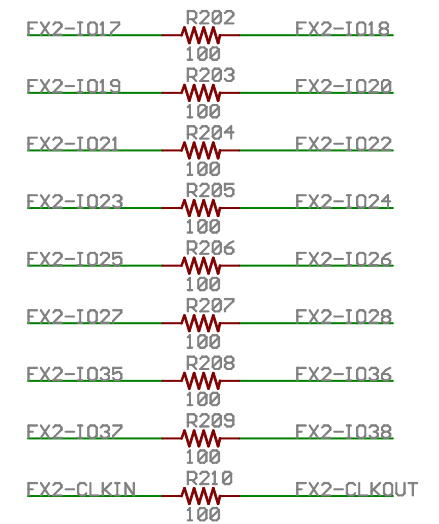
Date: 11/1/05

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DDR Series Termination



FX2 Differential Termination Not Loaded



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Engineer: CC

SHEET: DDR Memory Signals

Author: GMA

TITLE: S3E Starter

Rev: C.1

Doc#: 500-087

Date: 11/1/05

Sheet:14/14