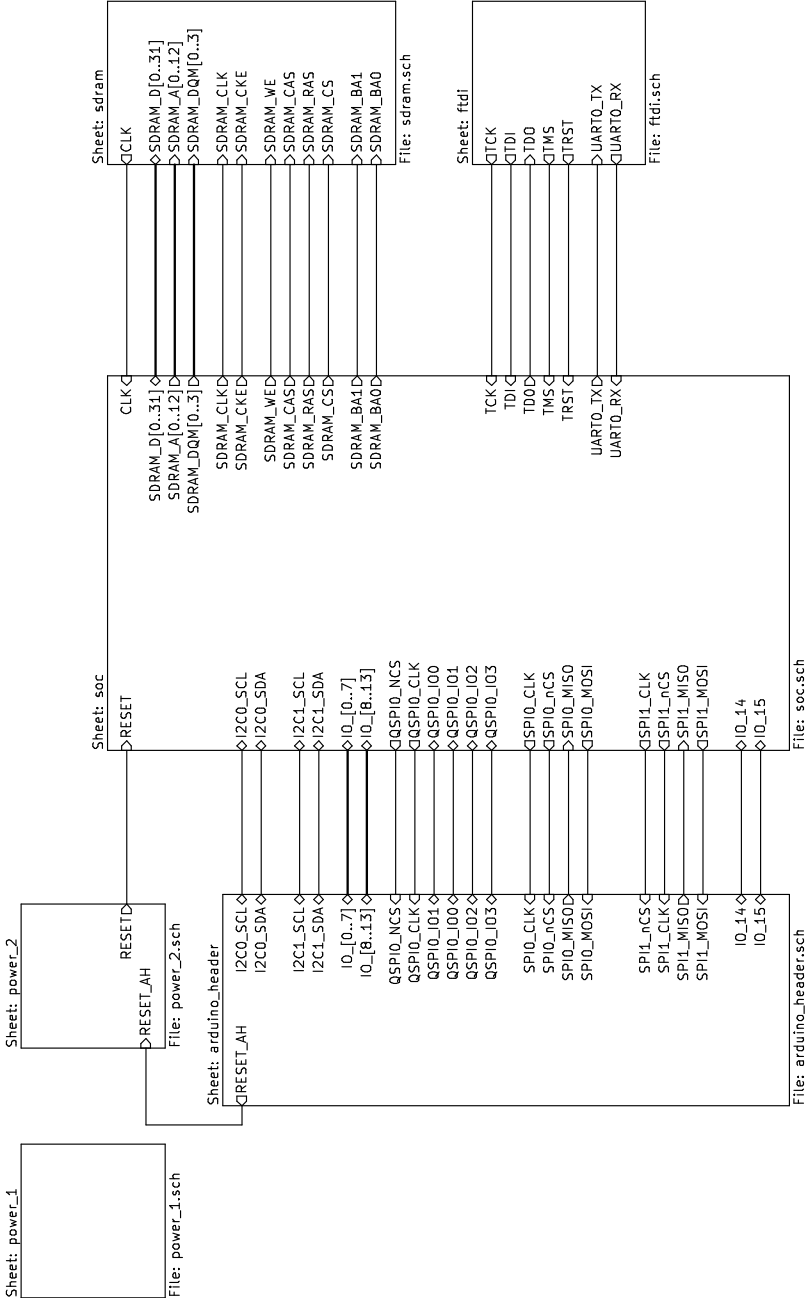


AARDONYX SKT32E – DEVELOPMENT BOARD
WITH ARDUINO COMPATIBLE HEADERS



Hierarchical Sheet
Aardonyx – SKT32E

IIT_MADRAS

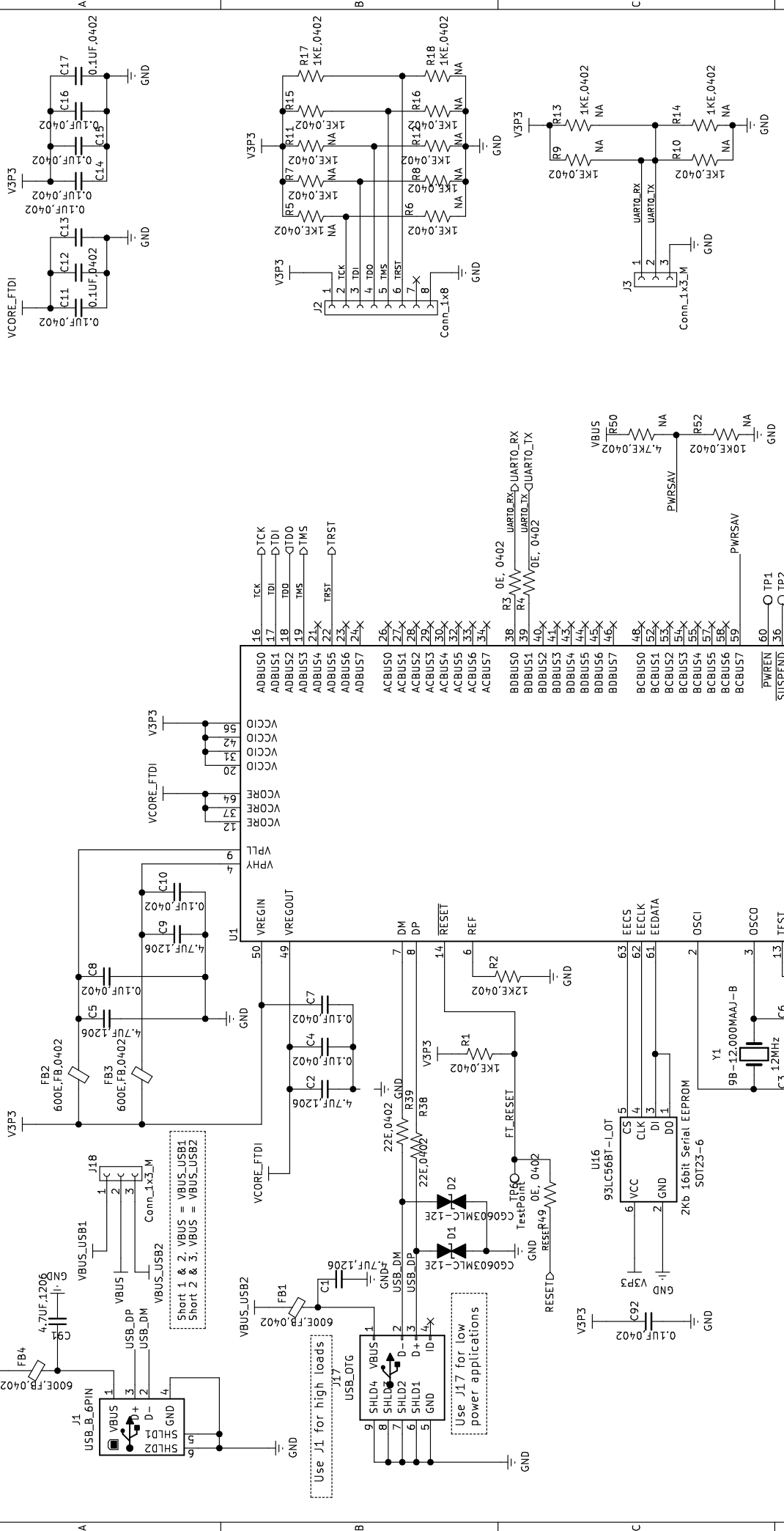
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Title: AARDONYX SKT32E DEVELOPMENT BOARD

Size: A4 Date: Rev: R1V0

KiCad E.D.A. kicad 5.1.5 – 52549c586ubuntu16.04.1 Id: 1/7

USB – JTAG/UART DUAL PORT CONVERTER



SKT32E – FT232H Interface
USB – UART Converter

IIT_MADRAS

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File: ftdi.sch

Title: AARDONYX SKT32E DEVELOPMENT BOARD

Size: A4 Date:

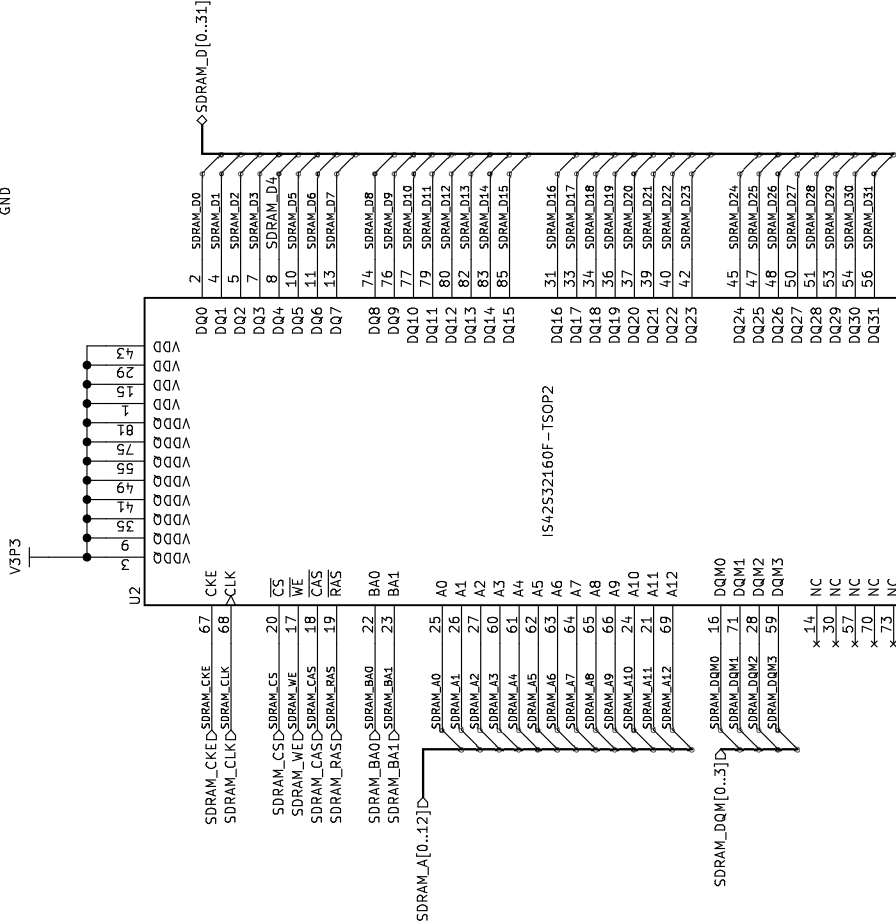
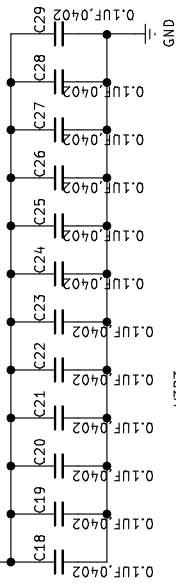
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Rev: R1V0

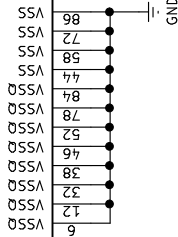
Id: 2/7

SKT32E – SDRAM INTERFACE

CLOCK MULTIPLIER



512Mb – SDRAM (16 x 32Mbit)
86-pin TSOP-II



SKT32E NC PINS	
NC37	NC107
NC38	NC106
NC39	NC105
NC40	NC104
NC41	NC103
NC42	NC102
NC43	NC101
NC44	NC100
NC45	NC99
NC46	NC98
NC47	NC97
NC48	NC96
NC49	NC95
NC50	NC94
NC51	NC93
NC52	NC92
NC53	NC91
NC54	NC90
NC55	NC89
NC56	NC88
NC57	NC87
NC58	NC86
NC59	NC85
NC60	NC84
NC61	NC83
NC62	NC82
NC63	NC81
NC64	NC80
NC65	NC79
NC66	NC78
NC67	NC77
NC68	NC76
NC69	NC75
NC70	NC74
NC71	NC73
NC72	NC72
NC73	NC71
NC74	NC70
NC75	NC69
NC76	NC68
NC77	NC67
NC78	NC66
NC79	NC65
NC80	NC64
NC81	NC63
NC82	NC62
NC83	NC61
NC84	NC60
NC85	NC59
NC86	NC58
NC87	NC57
NC88	NC56
NC89	NC55
NC90	NC54
NC91	NC53
NC92	NC52
NC93	NC51
NC94	NC50
NC95	NC49
NC96	NC48
NC97	NC47
NC98	NC46
NC99	NC45
NC100	NC44
NC101	NC43
NC102	NC42
NC103	NC41
NC104	NC40
NC105	NC39
NC106	NC38
NC107	NC37

SKT32E – SDRAM Interface
SKT32E – Clock Multiplier

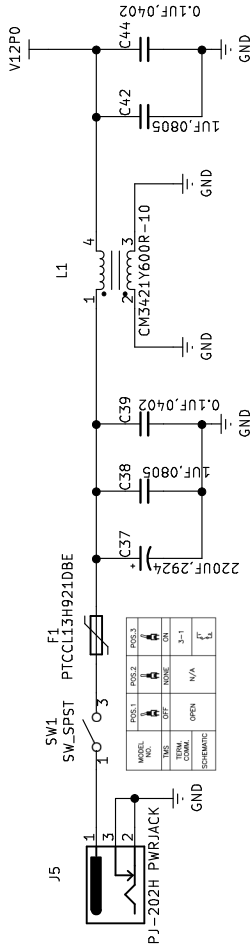
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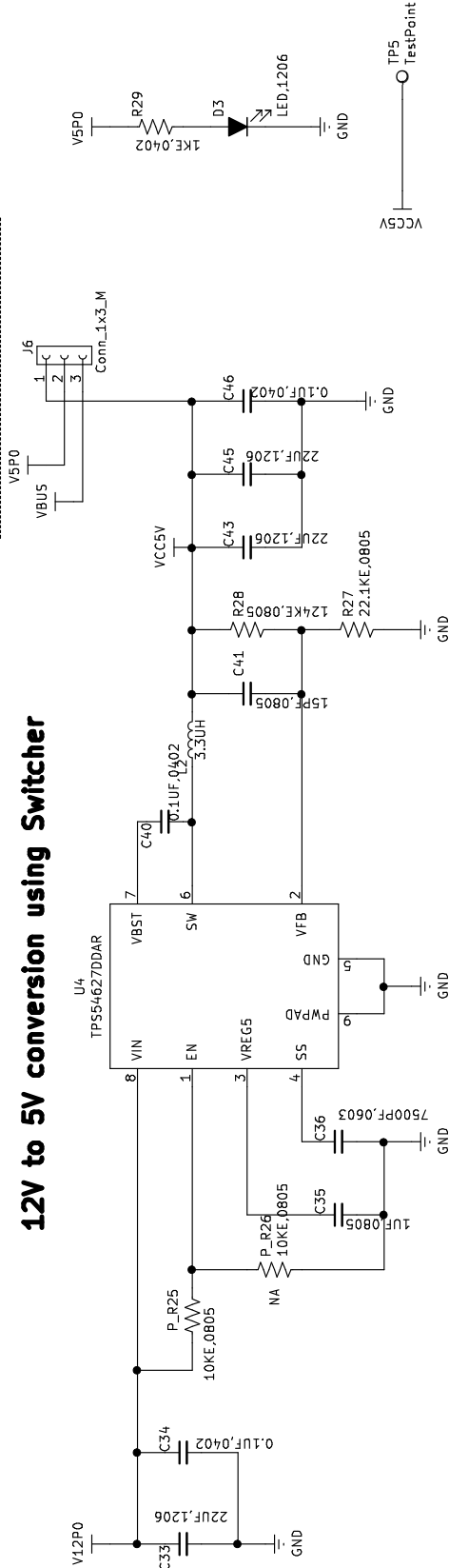
Size: A4 Date: Rev: R1V0
KiCad E.D.A. kicad 5.1.5 – 52549c586ubuntu16.04.1 Id: 3/7/

12V Power Input and protection



12V to 5V conversion using Switcher

Short 1 & 2, 5V from 12V to 5V converter
Short 2 & 3, 5V from USB



SKT32E - 12V to 5V converter

IIT_MADRAS

Sheet: /power_1/
File: power_1.sch

Title: AARDONYX SKT32E DEVELOPMENT BOARD

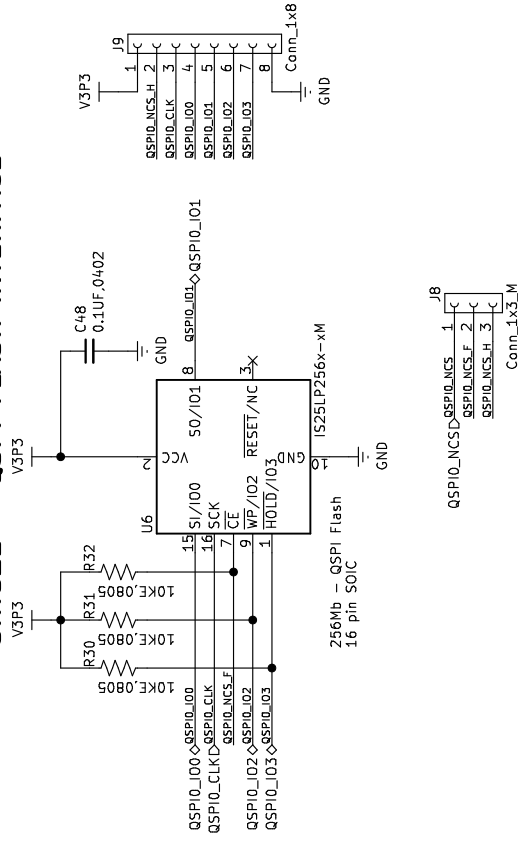
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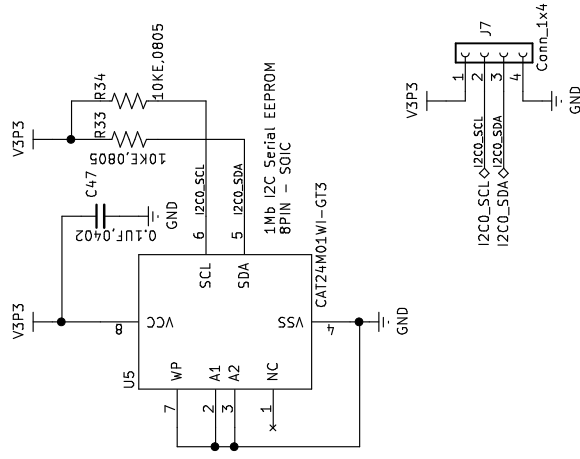
Rev: R1V0

Id: 4/7

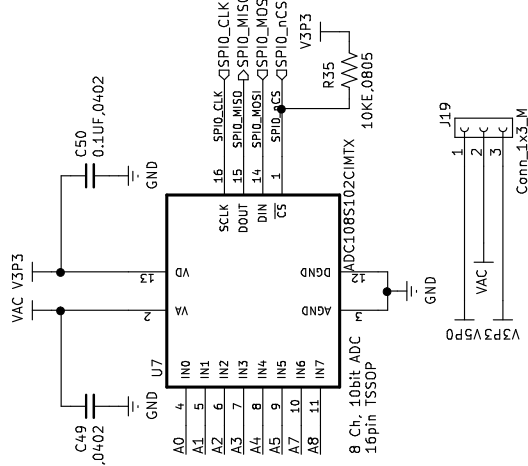
SKT32E – QSPI FLASH INTERFACE

Short 1 & 2, Allow Access to flash from SKT32E
Short 2 & 3, Allow Access to Flash through J9

SKT32E – I2C EEPROM INTERFACE

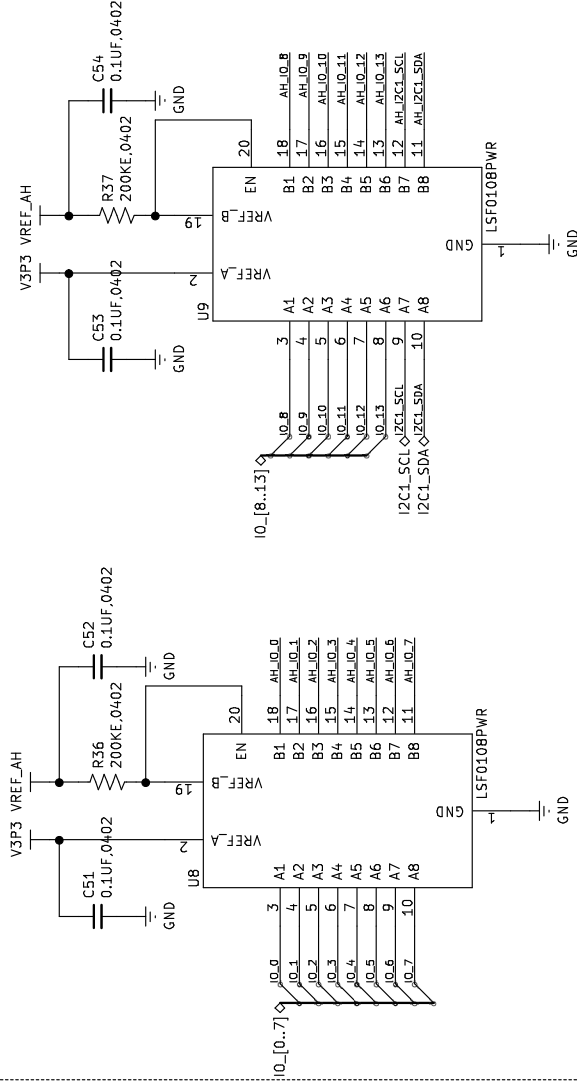


SKT32E SPI – 8 CHANNEL ADC INTERFACE

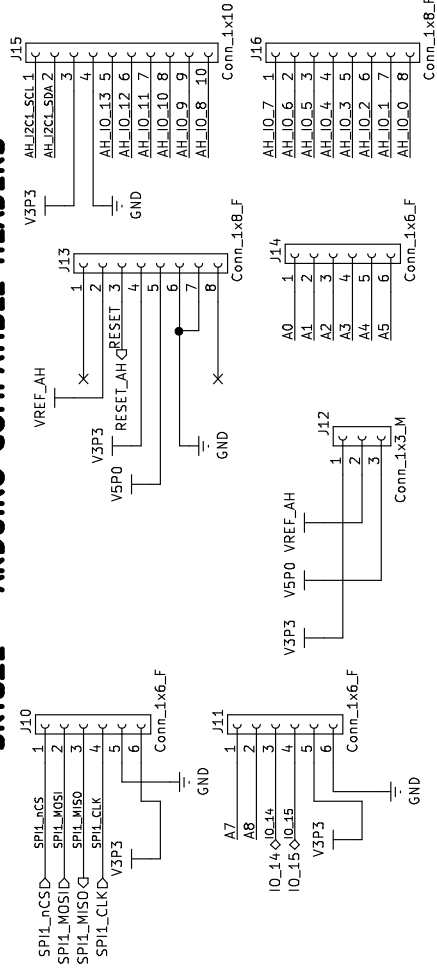


Short 1 & 2, VAC = 5V
Short 2 & 3, VAC = 3.3V

LEVEL TRANSLATOR FOR ARDUINO HEADER



SKT32E – ARDUINO COMPATIBLE HEADERS



IIT_MADRAS

Sheet: /arduino_header/
File: arduino_header.sch

Title: AARDONYX SKT32E DEVELOPMENT BOARD

Size: A4	Date:	Rev: R1V0
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Rev: R1V0

Id: 5/7

