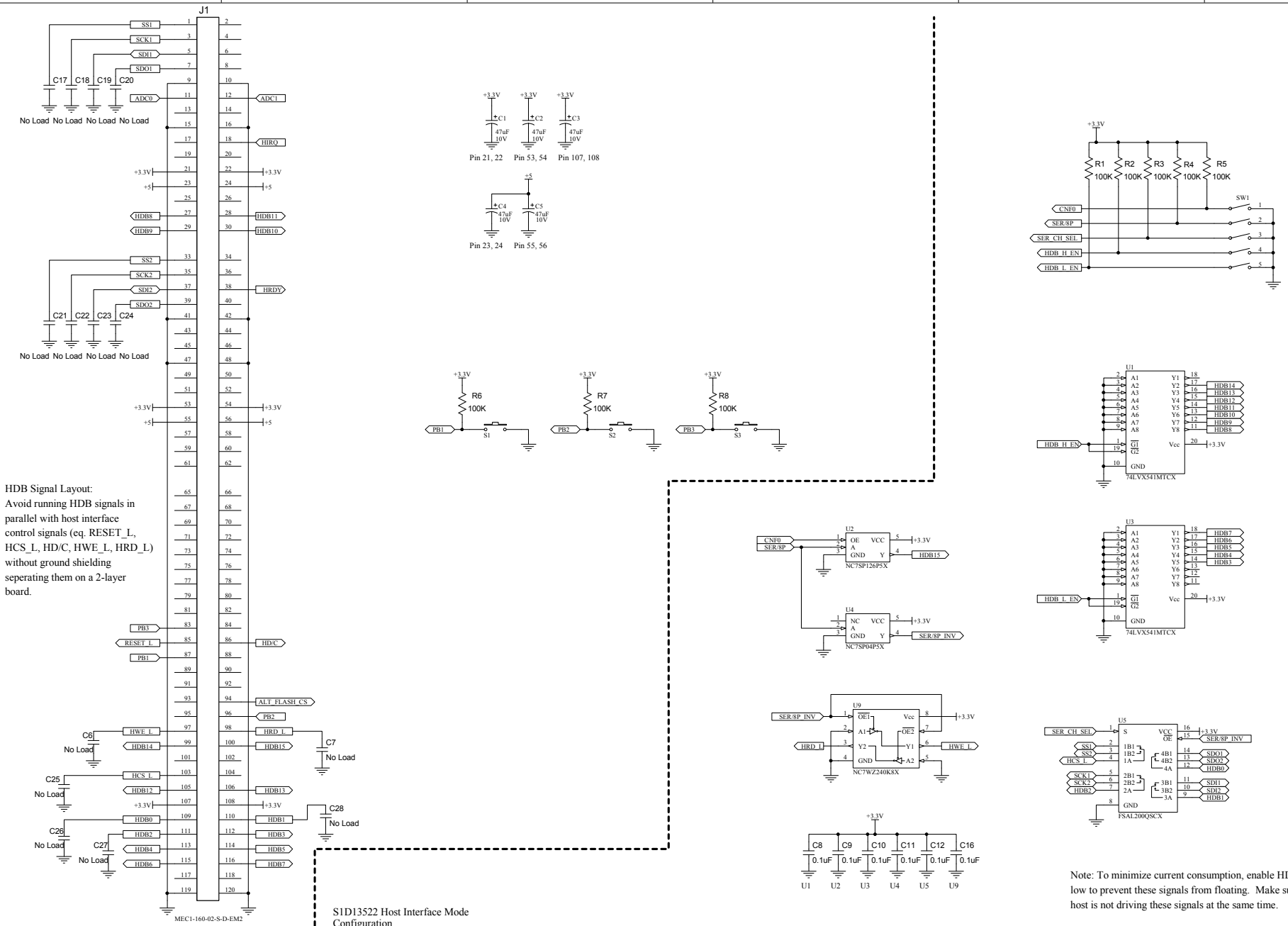


HDB Signal Layout:
Avoid running HDB signals in parallel with host interface control signals (eq. RESET_L, HCS_L, HD/C, HWE_L, HRD_L) without ground shielding seperating them on a 2-layer board.

www.samtec.com
PICtail Plus Connector from Explorer 16

S1D13522 Host Interface Mode Configuration

I/F Mode	CNF0	HDB15
16-bit Parallel	0	N/A
8-bit Parallel	1	0
Serial	1	1

Note: For referenece only, use SW1 to configure this board for different Host I/F modes.

Host I/F	SW1-1	SW1-2	SW1-3
16-bit Parallel	On	On	D/C
8-bit Parallel	Off	On	D/C
Serial - SPI1	Off	Off	On
Serial - SPI2	Off	Off	Off

Note: D/C = don't care

HDB(7:3)	SW1-5
Driven Low	On
Not Driven Low	Off

Note: HDB(7:3) can only be driven low during serial interface modes.

HDB(14:8)	SW1-4
Driven Low	On
Not Driven Low	Off

Note: HDB(14:8) can only be driven low during 8-bit parallel or serial interface modes.

Note: To minimize current consumption, enable HDB driven low to prevent these signals from floating. Make sure the host is not driving these signals at the same time.

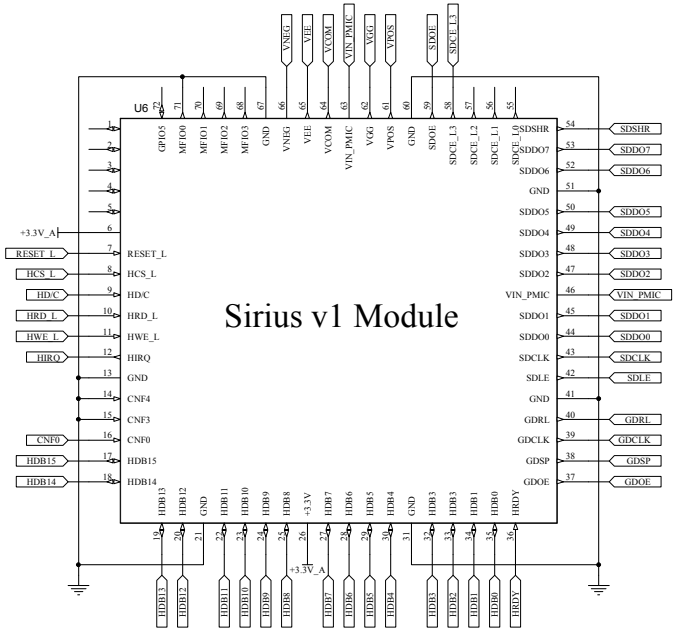
Mechanical parts

Quantity	Discription
PCB	

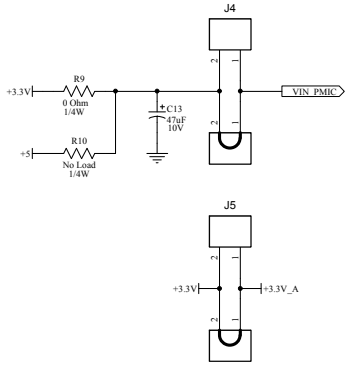
E-paper Display Epson PICtail(TM) Plus Board

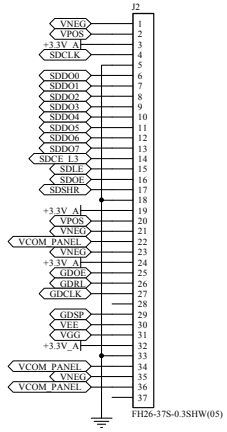
Size: C | MICROCHIP | 03-60377 | Rev: D

Eng:R. Roijvanit
Drawn by: S. Humberd
Date: 2/27/2012
File: 03-60377_Page_1_REV_D.SchDoc
Sheet: 1 of 2



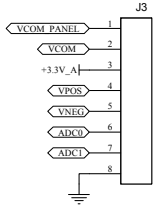
To measure current cut trace
and install headers on J4 and J5.



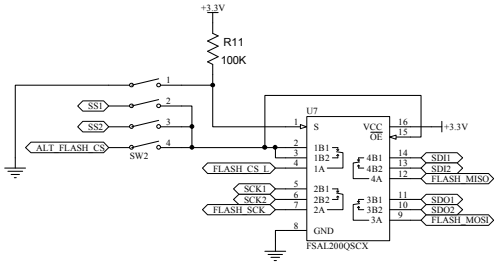


Hirose Electric
0.3mm Pitch Connector
to 3" PDI Panel
EQ030AT011

For normal operation short J3 pin 1-2
Leave all other pins open.



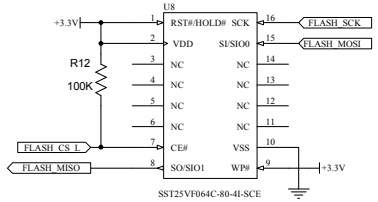
Male header Right Angle

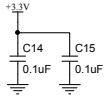


SPI Channel Select	SW2 - 1
SPI1	On
SPI2	Off

Chip Select	SW2 - 2	SW2 - 3	SW2 - 4
Use SS1	On	Off	Off
Use SS2	Off	On	Off
Use ALT_FLASH_CS	Off	Off	On

Note: Only 1 of SW2-2, SW2-3, SW2-4 should be On at any time. Make sure Flash Memory SPI channel selection not conflict with Host I/F in serial mode.





Mechanical parts

Quantity		Discription
JUMPER	1	Jumper LOAD AT J3 1-2

E-paper Display Epson PICtail(TM) Plus Board

Size:		Rev:
C	03-60377	D

MICROCHIP

Date: 2/27/2012 — Eng: R. Roijvanit
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