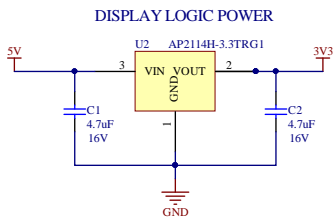


DT043BTFT-TS RGB Reference Design

(RGB 24-BIT WITH SERIAL DATA CONFIGURATION)

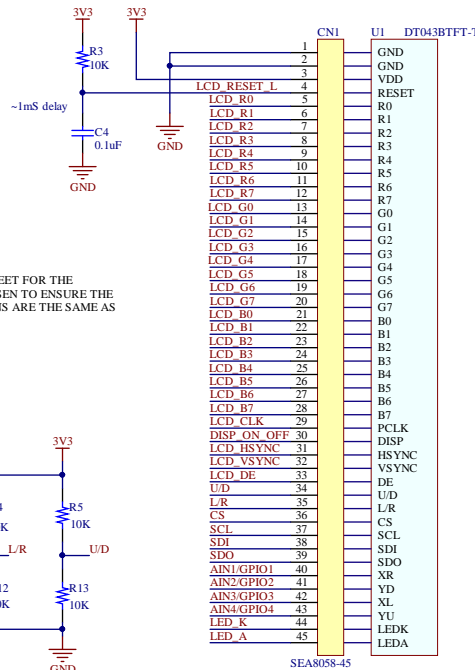
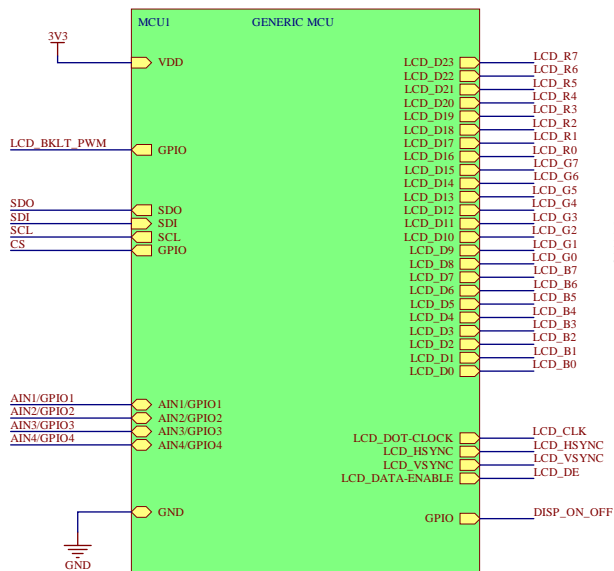


THESE SERIAL DATA SIGNALS ARE NOT FULLY COMPATIBLE WITH STANDARD SPI DATA PROTOCOLS. CUSTOM DRIVERS ARE NEEDED TO USE SPI HARDWARE PORTS.

FOR RESISTIVE TOUCH, USE GPIO PINS THAT HAVE ANALOG INPUT CAPABILITY.

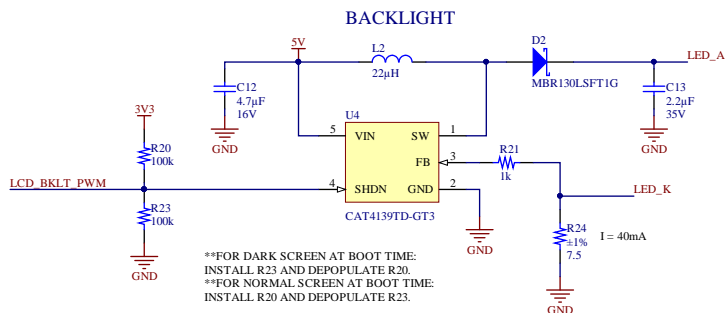
TO READ X POSITION, DRIVE Y-AXIS WITH LOGIC HIGH AND LOW SIGNALS. READ X POSITION FROM EITHER X-AXIS ANALOG INPUT.

REVERSE X AND Y SIGNAL FUNCTIONS TO READ Y POSITION.



CONSULT THE DATA SHEET FOR THE PARTICULAR MCU CHOSEN TO ENSURE THE LCD DATA CONNECTIONS ARE THE SAME AS THIS EXAMPLE.


FOR LEFT-TO-RIGHT AND TOP-TO-BOTTOM SCAN, DEPOPULATE R12 AND R13.



**FOR DARK SCREEN AT BOOT TIME: INSTALL R23 AND DEPOPULATE R20.
**FOR NORMAL SCREEN AT BOOT TIME: INSTALL R20 AND DEPOPULATE R23.

SERIAL CONFIGURATION DATA HAS 6 BITS OF ADDRESS FOLLOWED BY TWO READ/WRITE BITS, THEN 16 BITS OF DATA. SEE THE HX8257-A01 DISPLAY DRIVER FOR DETAILS.

CHIP SELECT (CS) SIGNAL IS USED TO INITIATE A DATA TRANSFER SEQUENCE.

Project: DT043BTFT Reference Design			 a SEACOMP COMPANY	
Title: DT043BTFT-TS RGB Reference Design				
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Date: 2/7/2020	Time: 4:01:25 PM	Sheet: 1 of 1	Approved:	
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DISPLAY

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