POWER AND FILTERING SCREEN CONNECTOR FEATHER LED_A LED_K-1 RESET 3V AREF GND GPIOA0 GPIOA1 GPIOA2 GPIOA3 GPIOA4 GPIOA5 GPIOA5 GPIOMOSI GPIOMOSI GPIORX GPIOTX NC O LED_K-2 2 -GND 3 4 5 6 7 8 9 10 11 12 13 14 15 16 GND VBAT EN USB GPI013 GPI010 GPI010 GPI09 GPI05 GPI05 GPI0SCL GPIOSDA LCD_VDD VCI RESET MOSI NC-1 8 NC-2 SCK MOSI MISO Hardware SPI SPI CS LCD 12C INTERRUPT TOUCH MCU 12C (Wire) data 12C (Wire) clock Hardwar MISO SDA Hardware UART SCK 10 Graphics engine LT7688 SCK Hardware i2c LCD CS CS 10K 12 **PCLK** PCLK 10K 13 PDE DE VSYNC 10K 14 VSYNC 10K 15 HSYNC HSYNC BLUE0 BLUE0 BLUE1 BLUE1 BLUE2 BLUE2 BLUE3 Graphic engine BLUE3 BLUE4 BLUE4 BLUE5 BLUE5 GREEN0 GREEN0 GREEN1 GREEN1 **GREENS** GREEN2 GREEN2 GREEN3 GREEN3 GREEN4 GREEN4 GREEN5 GREEN5 PD[7] PD[6] PD[6] PD[6] PD[7] RED0 RED1 GND - S XO VSS-5 RED2 59 BLUE0 VDD-2-6 PD[2] RED3 VDD_CAP2 LT7688 VDD-C2-3 VDD-2-7 +3V3 > RED4 PCLK PSM[2] PCLK LT7688 RESET GRAPHICS ENGINE RED5 RESET RST1# PDE GND-2 HSYNC PWM12 HSYNC TS_INT TP_INT VSYNC PWM13 VSYNC TP_SDA 32K_XO PWM[1] TP_SCL 32K_XI PWM[0] RST VDD-1-3 VSS-3 +3V3 TP_VCI VDD-1-2 VDD-2-1 GND-3 12 VDD_CAP2 AIN3/INT03 VDD-C2-2 13 SCL VDD-2-2 +3V3 > 14 47 SDA NC-4 15 46 GND -INT11 ← +3V3 16 45 VDD-1-4 44 17 DM NC-2 43 VDD CAP2 D+ DP 42 GND 19 VSS-1 41 GND GND - S INTO2 TXD TXD TXD PWM00 PWM01 INT14 AINT/114 SECS0# SECS1# SPI FLASH 26 27 28 29 31 32 QSPI_DATA[1] SPI FLASH on LT7688 U1 QSPI_DATA[0] QSPL SCK QSPL DATA[0] QSPL DATA[1] QSPL DATA[1] QSPL DATA[2] QSPL DATA[3] SCK MOSI MISO SSEL WP#/IO2 HOLD#/IO3 LT7688 SPI FLASH SPI Flash