U1
GROUND
VOUT
VIN
TAB
5VIN
GND
PWR
R1
A1818D9AV2G84
A1818D9AV2G84
C58 DTA154ZKSRACAUTO
C59 100nF
C38 100nF
C37 100nF
C36 100nF
C35 100nF
C34 100nF
C32 100nF
C33 100nF
C31 100nF
C30 100nF
C29 100nF
C27 100nF
C26 100nF
C25 100nF
C24 100nF
C23 100nF
C22 100nF
C28 100nF
C19 100nF
C18 100nF
C17 100nF
C16 100nF
C11 100uF
C60 100uF
3V3
R49 4K7
IC2 DS18B20+ Header
VDD
DQ
GND
PE2
Battery 5811-45R
C48 100nF
C12 12pF
C13 12pF
Y1
VOA 1-1734344-2
VOA-BLUE
VOA-GREEN
VOA-RED
R17 1K
LED1 553-0112F
ANODE_1
CATHODE_1
ANODE_2
CATHODE_2
R36 1K
S2
COM_1
COM_2
NO_1
NO_2
C1
D1
C18 100nF
R51 10K
Mode SOLDERJUMPERNO SJ_2S-NO
C14 100nF
Y3 X1088448101408 X1088448101408
ST
R44 10R
R46 10K
C4 1uF
C5 100nF
C8 10uF
R72 4K7
R73 4K7
Audio 3SRASMT4@HNTRX
PE2 PE3 PE4 PE5 PE6 VBAT PI8 PC13 PC14-OSC32_IN PC15-OSC32_OUT PI9 PI10 PI11 VSS_1 VDD_1 PF0 PF1 PF2 PF3 PF4 PF5 VSS_2 VDD_2 PF6 PF7 PF8 PF9 PF10 PH0-OSC_IN PH1-OSC_OUT NRST PC0 PC1 PC2_C PC3_C VDD_3 VSSA VREF+ VDDA PA0_COM2TX_A PA1_COM1DE_A PA2_COM1TX_A PA2 PH2 PH3 PH4 PH5 PA3_COM1RX_A PA3 VSS_3 VDD_4 PA4 PA5 PA6_PWM1A_A PA7_PWM1B PC4_INT1_A PC5 PB0_PWM1C_A PB0 PB1 PB2 PF11 PF12 VSS_4 VDD_5 PF13 PF14 PF15 PF15 PB10 PB11 PB11_NUN_SDA VDD_7 PH6 PH7 PH8 PH9 PH10 PH11 PH11_I2C2SCL
IC3 STM32H743IIT6 QFPSBP260X260X160-176N
PH12 VSS_4 VDD_8 PB12 PB13 PB13_SPI2CLK PB14 PB14_SPI2IN PB15 PB15_SPI2OUT PD8 PD9 PD10 PD11 PD12 PD13 VSS_7 VDD_9 PD14 PD15 PG2 PG3 PG4 PG5 PG6 PG7 PG8 VSS_8 VDD33_USB PC6 PC7 PC8 PC9 PA8 PA9 PA10 PA11 PA12 PA13 VCAP1 VSS_9 VDD_10 PH13 PH14 PH15 PI0 PI1 PI2 PI3 VSS_10 VDD_11 PA14 PA15 PC10 PC11 PC12 PD0 PD1 PD2 PD3 PD4 PD5 VSS_11 VDD_12 PD6 PD7 PG9 PG10 PG11 PG12 PG13 PG14 VSS_12 VDD_13 PG15 PB3 PB4 PB5 PB6 PB7 BOOT0 PB8 PB9 PE0 PE1 PDR_ON VDD_14 PI4 PI5 PI6 PI7
IR TSOP4838
OUT
VS
GND
PB12
3V3
J3 HIF3F-40PA-2.54DS(71)
3V3 5VIn PB9_I2C1SDA 5VIn PB8_I2C1SCK GND PC1_INT2_A PA2_COM1TX_A GND PA3_COM1RX_A PA6_PWM1A_A PC2 GND PC3_A GND PA8_COM2TX_A 3V3 PA1S_TIMER PB5_SPI1OUT GND
PB4_SPI1IN PA7_PWM1B PB3_SPI1CLK PC4_INT1_A GND PC5_A PB7_I2C2SDA PH11_I2C2SCL PB0_PWM1C_A GND PC7_PWM2B PI0 PI3 GND PB14_SPI2IN PC6_PWM2A PA1_COM1DE_A PB15_SPI2OUT GND PB13_SPI2CLK
SDCard DMIAA-SF-PEJ(21)
PD2 PC12 PC10
PC11 PD3 PH12 GND
CARD DETECTION SWITCH
WRITE PROTECTION SWITCH_1
WRITE PROTECTION SWITCH_2
R42 2M2
C2 100nF
C1 10uF
C3
IC4 CH340C SOIC127P600X175-16N
GND TXD RXD V3 UD+ UD- NC_1 NC_2
VCC R232 RTS DTR DCD RI CTS
PA10_ConsoleRX PA9_ConsoleTX
USBPWR
GND 5VIN 5VIN USB 2D- 2D+
R52 10K
R53 10K
R54 10K
R55 10K
NRST
BOOT0
3V3
IC4
VDD_1 PDI4_2 3V3_3 PDI5_4 PD8_5 GND_6 PD1_7 PE7_8 3V3_9 PE8_10 PE9_11 GND_12 PE10_13 3V3_14 PE0_15 PH5_16 PD15_17 PF11_18 PH6_19 PD9_20 PD5_21 PD0_22 PF0_23 PF1_24 PF2_25 PF3_26 3V3_27 VDD_3
DQ0 VDDQ_1 DQ1 DQ2 VSSQ_1 DQ3 DQ4 VDDQ_2 DQ5 DQ6 VSSQ_2 DQ7 VDD_2 DQML WE# CAS# RAS# CS# BA0 BA1 A10 A0 A1 A2 A3 VDD_3
VSS_1 A4 A5 A6 A7 A8 A9 A11 A12 CKE CLK DQMH NC VSS_2 DQ8 VDDQ_3 DQ9 DQ10 VSSQ_3 DQ11 DQ12 VDDQ_4 DQ13 DQ14 VSSQ_4 DQ15 VSS_3
28 GND 29 PF4 30 PF5 31 PF12 32 PF13 33 PF14 34 PF15 35 PG1 36 PG2 37 PH7 38 PG8 39 PE1 40 NC 41 GND 42 PE11 43 3V3 44 PE12 45 PE13 46 GND 47 PE14 48 PE15 49 3V3 50 PD0 51 PD9 52 GND 53 PD10 54 GND
IC5 M24C64-FMC6TG SOIC127P600X175-8N
E0 E1 E2 VSS VCC WC SCL SDA
R71 10K R70 10K
C46 100nF
IC7 DS3231M+ SOIC127P600X175-8N
32KHZ VCC INT/SQW RST
VBAT VBAT SDA SCL
ST-LINK
NRST PA13 GND PA14 3V3
R69 2R2
ESP3V3
C33 100nF
C28 10uF
ESP-01
GND PH14_COM2RX ESP3V3 PA0_COM2TX_A ESP3V3
R55 240R R54 240R PH2
R53 240R R58 120R PH3
R45 240R R43 120R PH8
R2 240R R1 120R PH9
R3 240R R7 120R PH10
R4 240R R8 120R PC0
R5 240R R9 120R PB1
R6 240R R10 120R PD6
R11 75R VGA-RED
R61 240R R60 240R PE4
R59 240R R58 120R PG12
R57 240R R56 120R PD6
R13 240R R12 120R PG11
R14 240R R18 120R PI4
R15 240R R19 120R PI5
R16 240R R20 120R PI6
R17 240R R21 120R PG7
R22 75R VGA-BLUE
R65 240R R64 240R PE5
R63 240R R62 120R PE6
R24 240R R23 120R PH13
R34 240R R35 120R PG10
R25 240R R29 120R PH15
R26 240R R30 120R PI0
R27 240R R31 120R PI1
R28 240R R32 120R PG9
R33 75R VGA-GREEN
J1 72389-8834BLF 72389B834BLF
5VIn PA11 PA12 GND 5VIn PB2 PB3 PB4 MH1 MH2 MH3 MH4
Mouse_D+ Mouse_D-
R88 4K7
R87 4K7
SOLDERJUMPERNO SJ_2S-NO
PS2-DAT SOLDERJUMPERNO SJ_2S-NO
PS2-CLK SOLDERJUMPERNO SJ_2S-NO
PA9 PE3
Y2 ABM8-16.000MHz-D1X-T
ABM8
C42 12pF
C43 12pF
C15 100nF
C41 1uF
C44 100nF
C7 2.2uF
C9 2.2uF
R41 4K7
R40 1K
R43 10K
R47 10K
R50 10K
R48 10K
R49 10K
R52 10K
R53 10K
R54 10K
R51 10K