MATTICO MATTICO POWER INPUT AUDIO OUTPUT USB SERIAL INTERFACE Q1 Place C10 as close as possible to Vout on U3. 7 C18 С3 5V 5V_FTDI 10u 10u 270R C1 C2 3.3V_FTDI TUOV & GND UIN **T**10u ± C10 GND 100n PHMØ 3300 8 8 DOT1POT THUMBPOT SPEAKER _ D2 VFB U2 3.3V_FTDI S VOUT1 VIN ΕN 3V30UT GND GND PG 10u VOUT2 C16 DC_VOL RXD RTS CTS MCP1642B-ADJ GND 2 6 100n POT1SW THUMBPOT BYP HPHONE VBUS Tip Shunt is normally closed (tip is zero 8 proposible high Z C5 LISBOM 100 SW2 SW1 USBDP LM4875 CBUS1 CBUS2 RESET GND GND GND GND GND CBUS3 150R FT230X GND GND GND GND GND GND GND GND GNDGND TFT INTERFACE 3.3V POWER LED INDICATION MIC5365-2.8YC5 U5 3V3 GPI02/SDA1 5V0 5V0 GPT03/SCL1 GND IN OUT R14 GPI04/GCKL TXD0/GPI014 C13 GND DXD0/GDI015 ΕN 5U GPI017/GENØ 10u GPI027/GEN2 GND 16 START GND BP GPI022/GEN3 GEN4/GPI023 V_REG_LDOSMD2GND 303 GEN5/GPI024 TFT_MOSI> GPI010/MOSI GND GEN/6GPI025 GND GPI09/MISO TFT_SCK GPI011/SCLK CEØ/GPIOS CE/GPIOZ TFT_CS TFT1 MIC7221 ID_SD GPI05 ID_SC GND GPIO12 GND GPI06 100n 100n GPI013 TFT 36 R2_BUMP 38 L2_BUMP 40 RIGHT_BUMP GPI016 GPIO19 GND GND GNDGND TFT_LED GND GPI021 U7 GND GND GND GND BUTTONS PUR_SH_STATE | R20 | IN4001 | N4001 | PHR_SH | 10K | D5 | N4001 | PHR_SH | Bus Switch Maube need to reroute/redo the power here GND MEGA16U2 VCC UVCC PDØ(INTØ/OCØB) PD1(INT1/AINØ) 31 PWR_EN COPRO_RX DIODE_DFLS130L AUCC PD2(INT2/AIN1/RXD1) 10K COPRO_MOSI PD3(INT3/TXD1) COPRO_TX 10 11 12 13 AUR UCC PD4(INT5/AIN3) COPRO_SCK <u>30</u> 29 D-D+ VDD SDI CS SCLK VREF SDO COPRO_MISO PRECINTE / AINS / PTS) SW1 LEFT PD7(INT7/HWB/AIN6/T0) DAC_CS 27 UCAP 4 5 VOUT USS GND PBØ(SS/PCINTØ) PB1(SCK/PCINT1) PB2(PDI/MOSI/PCINT2) 3.3V MCP48FEB01-E/UN XTAL1 17 18 19 20 21 PB3(PD0/MIS0/PCINT3) PB4(T1/PCINT4) DAC_OUT XTAL2/PC0 PB5(PCINT5) PB6(PCINT6) PB7(OCØA/OC1C/PCINT7) GND C20 C19 RESET /RESET(PC1) C21 DC2(AIN2/DCIN11) 26 25 23 22 22pF PC4(PCINT10) 22pF (MM)PC5(OC1B/PCINT9) GND PC6(OC1A/PCINT8) PCZ(ICP1/INT4/CLKO) BY RYAN WENDLAND MISO SCK RST VCC MOSI GND GBA_EMU COPRO_SCK GND GND GND GND MAY 2016 GND GND ISP1 Sheet: 1/1 0