







Ethernet 3.3V_P L2 U4 4700hm R33 VDDA KSZ8041NL/I 100MHz VDDIO_3.3 MDIO 11 ETH_MDIO C11 0.1uF J5 _C13 ETH_RST 3.3V_P MagJack_PoE C14_ GND R20 YLW+ 11 R17 1k JP12 0.1uF 2.2uF — YLW- 12 -VVV---(SPEED) ₹ R19 49.9 R24 MH-GRN+ 13 JP13 R18 1k VDDA 49.9 10k RXER/ISO 20 ETH_RXER TD+ 7 TX+ GND GRN- 14 -VVV---\LINK TD+ TCT TD-GND TD- 6 TX-INTRP 21 RD+ 5 RX+ 3.3V_P RD+ 5 RCT 6 RD-> RD-77 SHD 51 SHD 51 SPW PW PW PW POE -R35 4.7k R34 R23 4.7k R23 C10 R21 \$ R22 29 CRS/CONFIG1 28 COL/CONFIG0 ≶ 0.1uF 49.9 31 LED1/SPEED LED0/NWAYEN SPEED GND XOX 8 SOMHZ ETH_CLK LINK C12 GND-ISO C9 1nF 0.1uF GND REXT 10 Î GND R26 R25 C15 13k 13k 100pF GND D6 GND DT1042-04S0 VDDA VDDA 3.3V_P 3.3V_P GND C27 C26. C23 C25 0.1uF 10uF 0.1uF 10uF GND GND GND GND Sheet: /Ethernet/ Ethernet Track Impedance: Differential Pair https://saturnpcb.com/saturn-pcb-tookit/ Prepreg thickness: 8.3 mil (JLC7628). Er = 4.6 9.0 mil track with 11.0 mil gap (20 mil center to center) = 100 Ohms Each pair should match in length to better than 0.5mm File: Ethernet.kicad_sch Title: Size: A4 Date: Rev: KiCad E.D.A. 8.0.3 ld: 5/6

