



PCIe x16 connector PCle_x4{PCle}**◇** +3/3 +12V +12V J2B 10146070-113Y0LF C36 10u 10u 10u B1 B1 B2 B2 B2 B2 B3 B3 B4 B4 B5 B6 B6 B6 B6 B6 B7 B7 B7 B7 B8 B8 B8 B8 B8 B8 B8 B8 B8 B1 B10 B10 B10 B11 B11 B12 B13 B13 B14 B14 B-1 B15 B16 B16 B16 B17 B18 B19 B19 B19 B19 B19 B20 B20 B21 B21 B22 B23 B23 B24 B24 B25 B26 B26 B27 B27 B28 B28 B29 B30 B30 B31 B31 B31 B31 B32 B32 B33 B33 B34 B35 B36 B37 B38 B38 B39 B40 B40 B41 B41 10146070-113Y0LF SZSMF4L12AT3G GND +3V3 I2C0{I2C}**◇**— I2CO.SCL I2CO.SDA ± C37 → PCIereFo{PCIereF} PCIeREFO.CK+ PCIeREFO.CK-PCIex4.TX0+ PCIex4.TX0-PCIex4.RX0+ PCIex4.TX1+ PCIex4.TX1-PCIe_x4.RX1+ PCIe_x4.RX1-PCIex4.TX2+ PCIex4.TX2-PClex4.RX2+ PCIex4.RX2-PCIex4.TX3+ PCIex4.TX3-PCIex4.RX3+ PCIex4.RX3www.antmicro.com Antmicro Ltd Sheet: /PCle-connector/ File: pcie-connector.kicad_sch Title: OCuLink to PCIe adapter Size: A3 KiCad E.D.A. 9.0.2 Date: 2025-06-18 Rev: 1.0.0:b8dba86

+3V3 DC/DC converter Power supply ORing Ideal-diode-0 U1 TPS56C230RJER C1 100n +12V BST 1 3V3_BST | L1 1u8/6.8A File: ideal-diode.kicad_sch 3V3_EN + C29 + C30 150u + 150u C2 C15 C4 22u 22u 22u 25V 25V 25V R6 10k PWR PWR_FLAG Ideal-diode-1 3413.0326.11 AGND 13 MODE PGND 18 VCC_DC_CONN_1D VOUTE GND PWR_FLAG R16 10k File: ideal-diode.kicad_sch → PWR_FLAG GND GND GND GND 11.3V UVLO (VENH = 1.3V) F2 3413.0326.11 D8 SZSMF4L12AT3G File: ideal-diode.kicad_sch PERST and CPRSNT control Power indicator LEDs and testpoints 1 O TP3 R15 C12 100n GND 74AUP2G132 D PERST R7 100k GND PERST_CONN R41 www.antmicro.com Antmicro Ltd Sheet: /Power/ File: power.kicad_sch Powers need to be OK and host needs to want device out of reset for $\overline{\text{PERST}}$ to be deasserted Title: OCuLink to PCIe adapter









