















Use internal buffer (x2) with 2.048V ref. "External reference of 2.048 V applied to the REFIN pin (high impedance input). The on-chip buffer gains this by 2 and drives the REF pin with 4.096 V"
EN3=X, EN2=0, EN1=0, EN0=1 (28 MHz BW)
EN3=X, EN2=1, EN1=0, EN0=1 (9 MHz BW, use this BW only when the throughput is 2 MSPS or lower) VDD2 and VIO can come from the same supply. But route and decouple separately. +1V8 U31 C63 AD7960BCPZ-RL7 10u EPAD HTAB 0.1u 0.1u IN\_P\_LP Conn\_01x04\_Male VDD1\_2 GND C69 23 22 2 3 4 5 6 7 Alternative signal connection VDD2\_2 IN+ or ground the inputs (2V048\_REF) REFIN IN-2р 21 0.1u A\_ENOD ENO VCM → +5V VCM 20 (A\_EN1) EN1 VDD1 C61 19 A\_EN2 EN2 VDD1\_3 IN\_N\_LP M\_NID 18 EN3 VDD2\_3 → +1V8 8 CNV\_ND-CNV-CLK+ +50 0.1u DNI 5.1 kOhm output impedance Must buffer -DVCM\_OUT CNV\_PD-0.1u 000 C102 0.1u C64 -DNI Sheet: /adc2/ File: adc.sch Title: Size: A Date: Rev: KiCad E.D.A. kicad (5.1.9-0-10\_14) ld: 9/18

Use internal buffer (x2) with 2.048V ref. "External reference of 2.048 V applied to the REFIN pin (high impedance input). The on-chip buffer gains this by 2 and drives the REF pin with 4.096 V"
EN3=X, EN2=0, EN1=0, EN0=1 (28 MHz BW)
EN3=X, EN2=1, EN1=0, EN0=1 (9 MHz BW, use this BW only when the throughput is 2 MSPS or lower) VDD2 and VIO can come from the same supply. But route and decouple separately. +1V8 U33 C106 AD7960BCPZ-RL7 10u EPAD HTAB 0.1u 0.1u IN\_P\_LP Conn\_01x04\_Male VDD1\_2 GND 2 3 4 C112 23 Alternative signal connection VDD2\_2 IN+ 22 or ground the inputs (2V048\_REF) REFIN IN-2р 21 0.1u A\_ENOD ENO VCM → +5V VCM 5 6 7 20 (A\_EN1) EN1 VDD1 C104 19 A\_EN2 EN2 VDD1\_3 IN\_N\_LP M\_NID 18 EN3 VDD2\_3 **→** +1V8 C109 LC110 8 CNV\_ND-CNV-CLK+ +50 0.1u DNI 5.1 kOhm output impedance Must buffer -DVCM\_OUT CNV\_PD-0.1u 000 C113 0.1u C107-DNI Sheet: /adc3/ File: adc.sch Title: Size: A Date: Rev: KiCad E.D.A. kicad (5.1.9-0-10\_14) ld: 10/18















