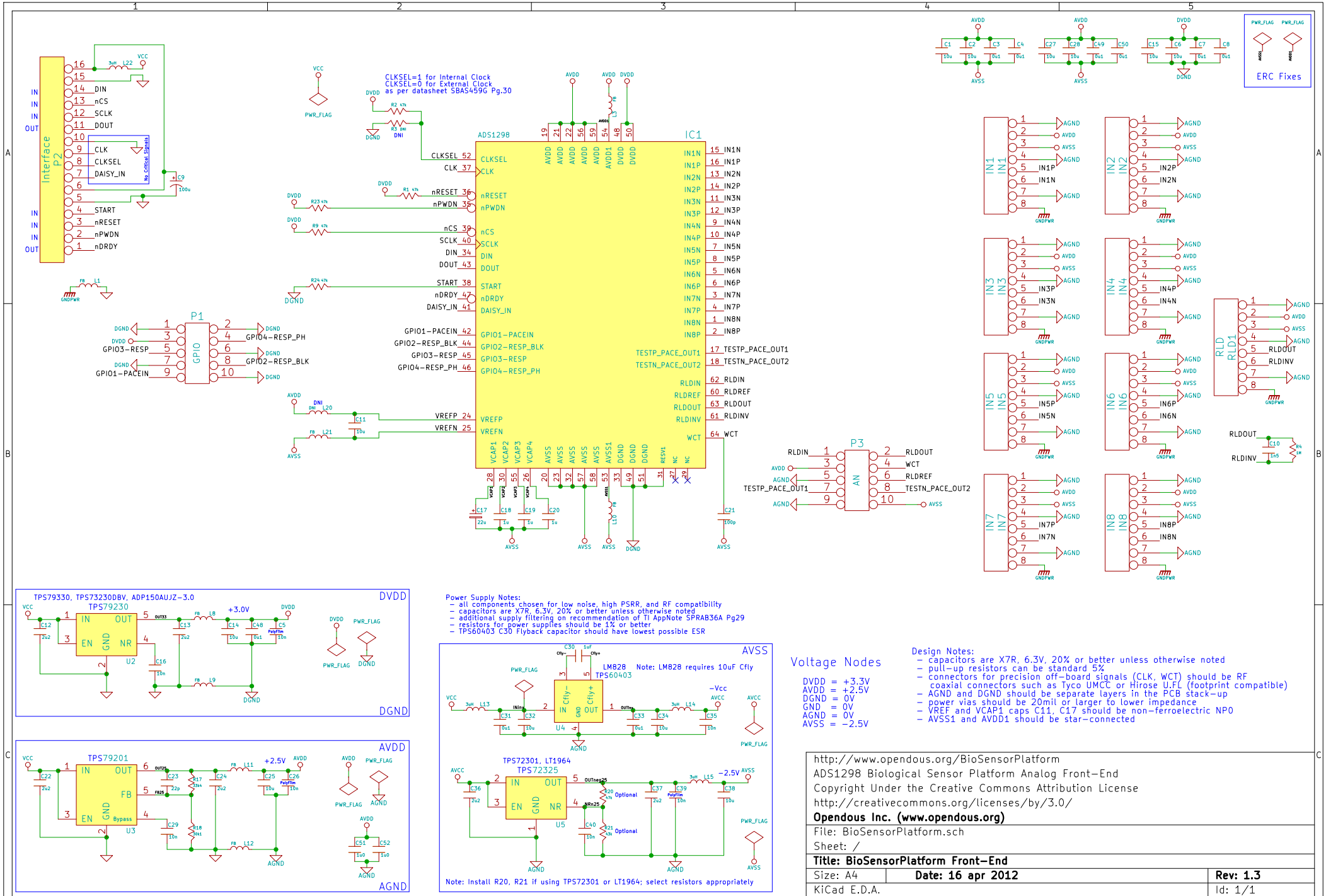

Power Supply Notes:
- all components chosen for low noise, high PSRR, and RF compatibility
- capacitors are X7R, 6.3V, 20% or better unless otherwise noted
- additional supply filtering on recommendation of TI AppNote SPRAB36A Pg29
- resistors for power supplies should be 1% or better
- TPS60403 C30 Flyback capacitor should have lowest possible ESR

Voltage Nodes

DVDD = +3.3V
AVDD = +2.5V
DGND = 0V
GND = 0V
AGND = 0V
AVSS = -2.5V

Design Notes:
- capacitors are X7R, 6.3V, 20% or better unless otherwise noted
- pull-up resistors can be standard 5%
- connectors for precision off-board signals (CLK, WCT) should be RF coaxial connectors such as Tyco UMCC or Hirose U.FL (footprint compatible)
- AGND and DGND should be separate layers in the PCB stack-up
- power vias should be 20mil or larger to lower impedance
- VREF and VCAP1 caps C11, C17 should be non-ferroelectric NPO
- AVSS1 and AVDD1 should be star-connected

http://www.opendous.org/BioSensorPlatform
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