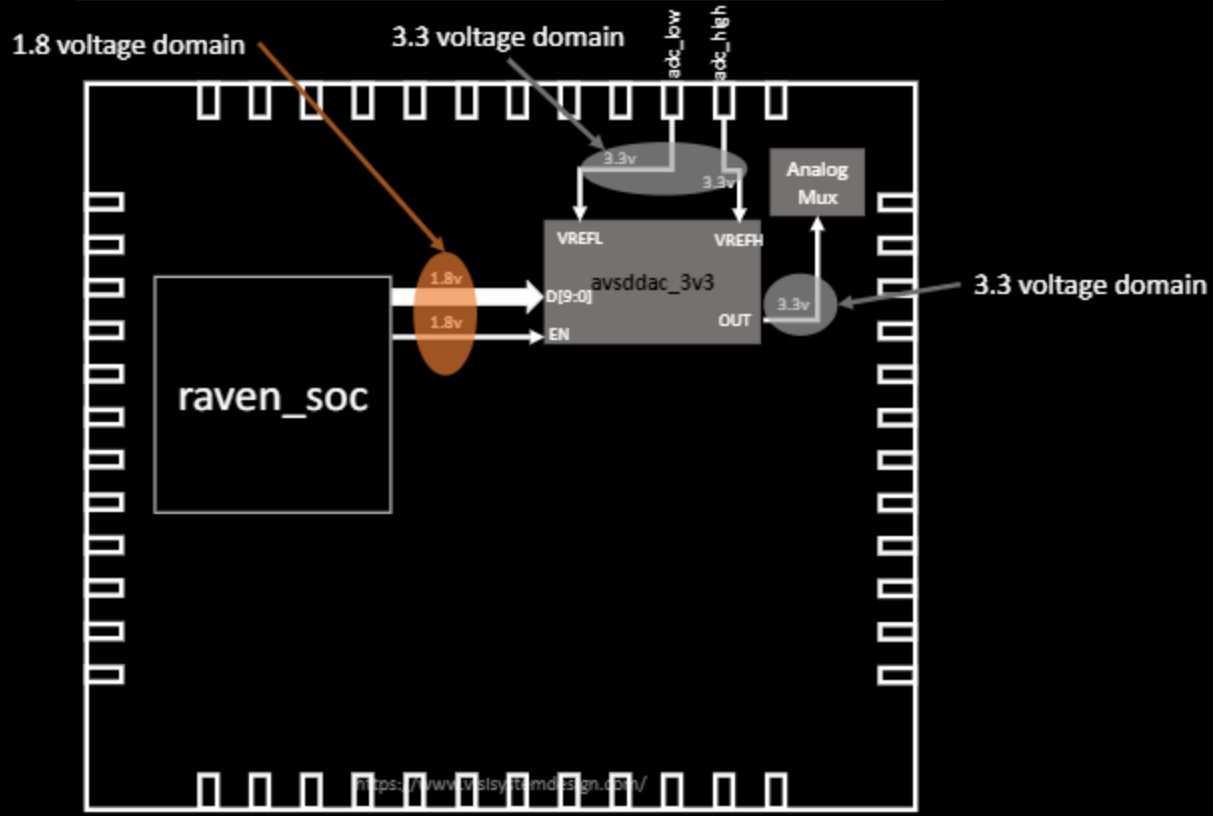
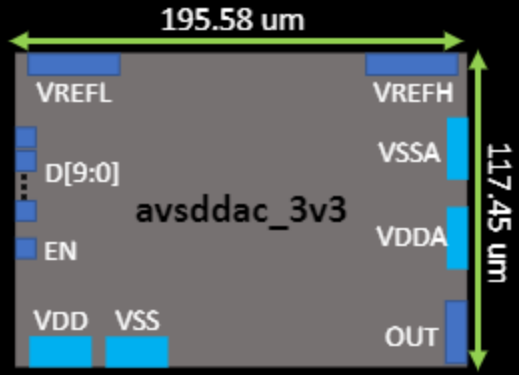
DAC (avsddac_3v3) spec sheet for 180nm tech node

- Specs released under APACHE LICENSE 2.0
- Please contact Kunal at kunalpghosh@gmail.com in case of any doubts

Application Note for dac (avsddac_3v3)



avsddac_3v3 preferred dimensions, pin locations and metal layers



VDD, VSS pins (metal2) – 1.5um x 0.8um

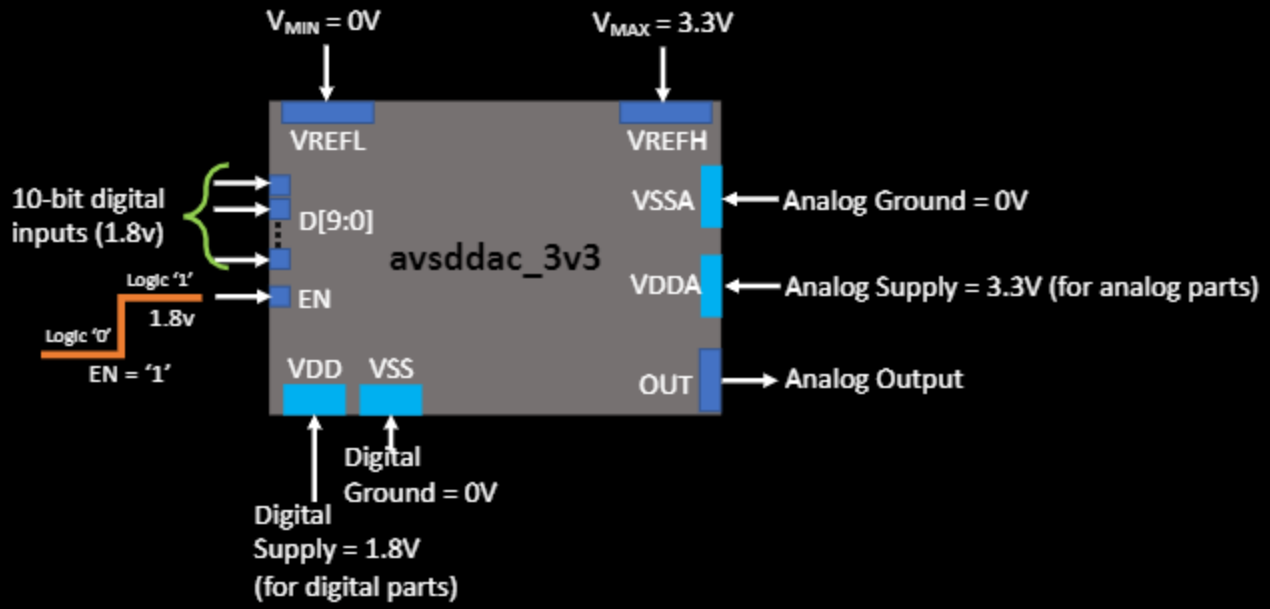
D[9-0], EN pins (metal3) – 0.28um x 0.28um

VREFL, VREFH pins (metal2) – 9.48um x 0.8um

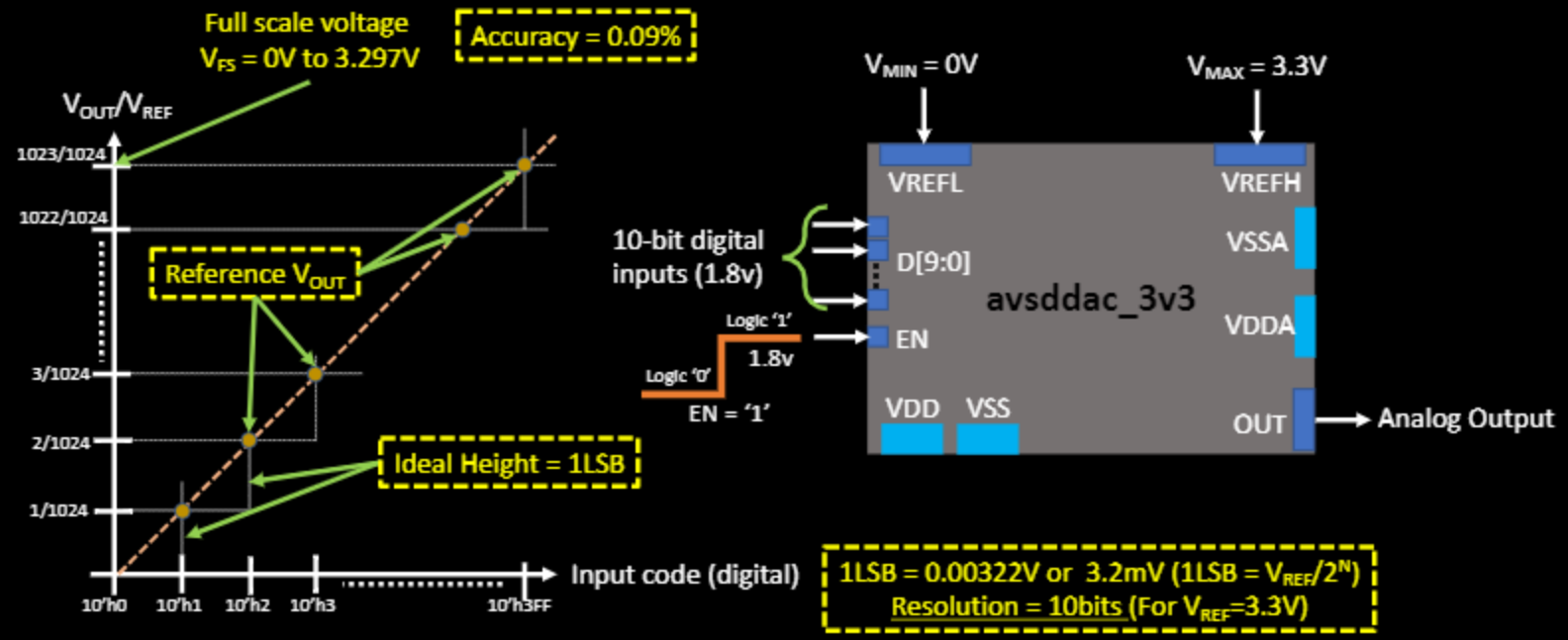
OUT pin (metal3) – 0.8um x 1.6um

VDDA, VSSA pins (metal3) – 0.8um x 3um

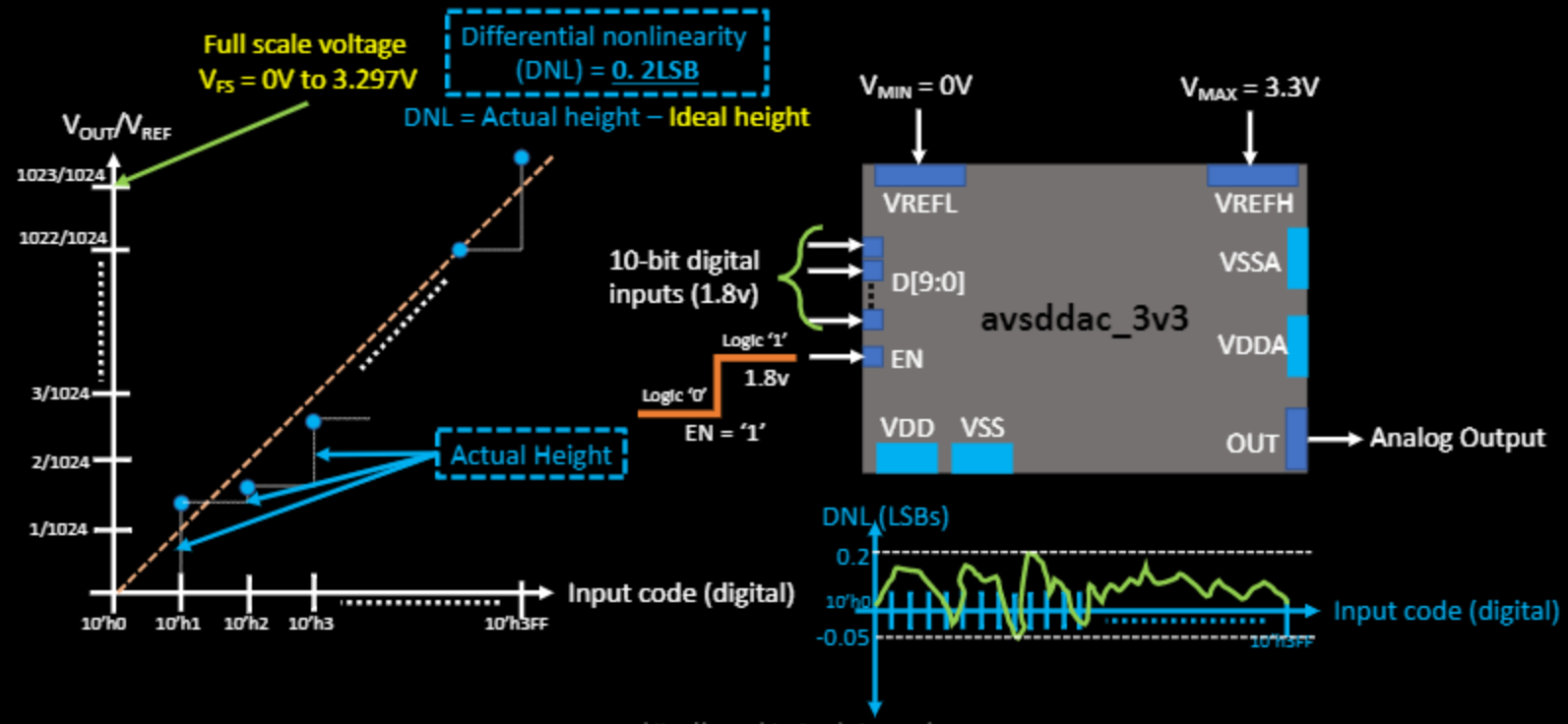
avsddac_3v3 operating modes



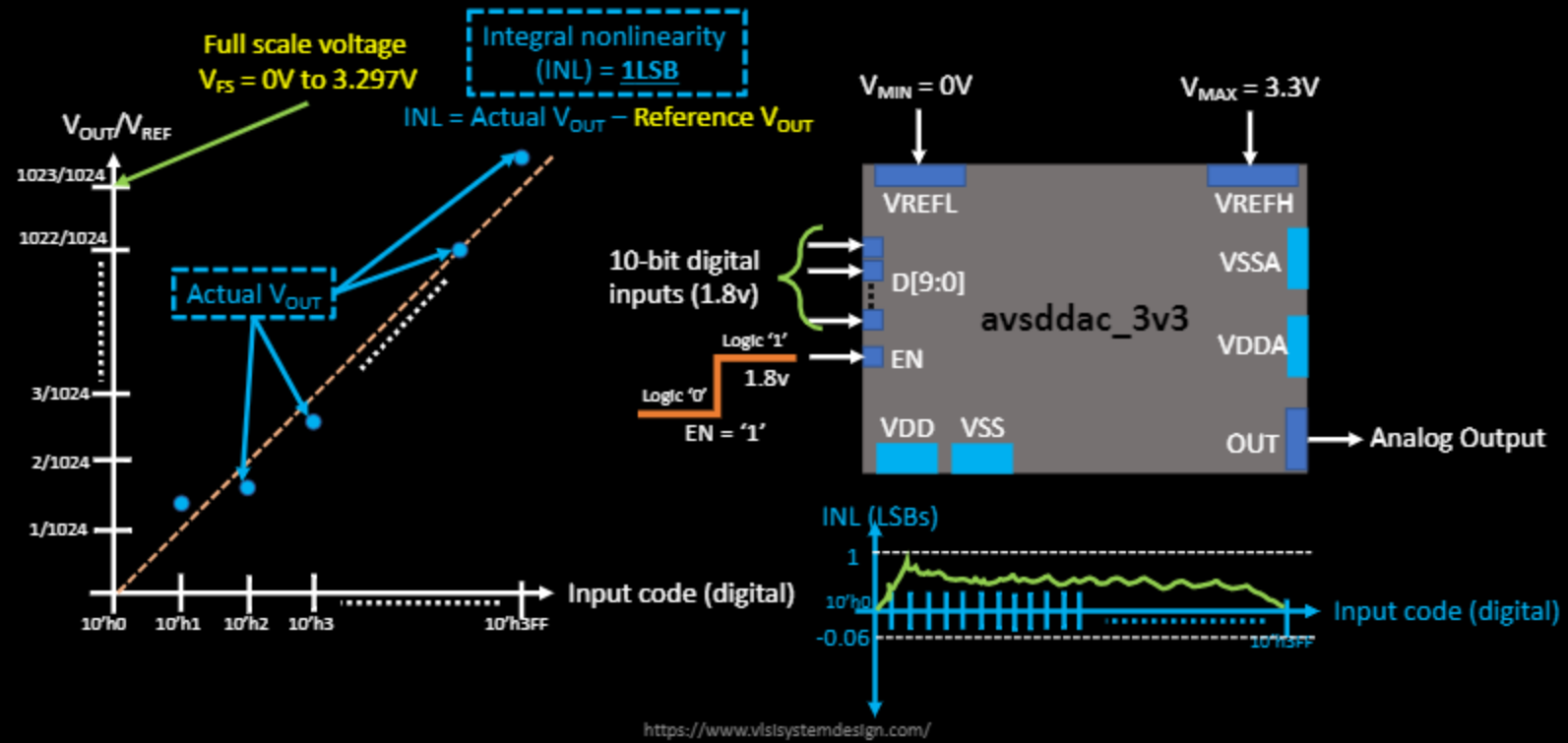
avsddac_3v3 operating modes



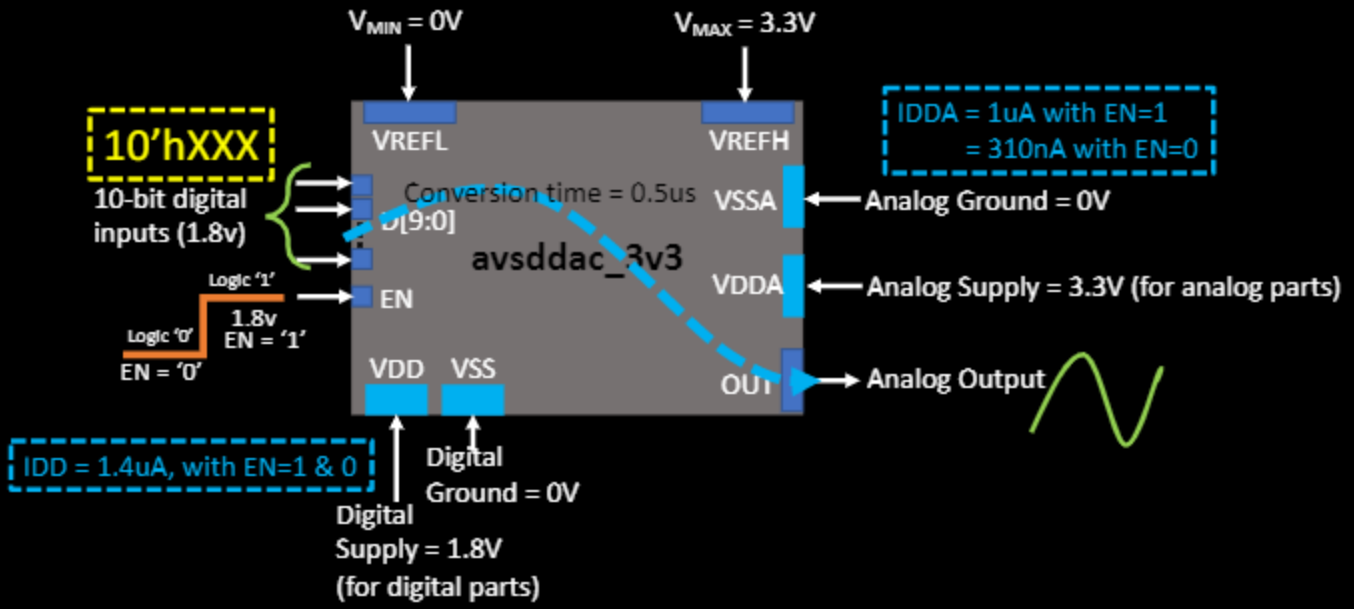
avsddac_3v3 operating modes



avsddac_3v3 operating modes



avsddac_3v3 operating modes



avsddac_3v3 plots and values needed

1) DNL vs Digital code at V_{REF}=V_{DD}=3.3V and T=20C & 85C

2) INL vs Digital code at V_{REF}=V_{DD}=3.3V and T=20C & 85C

3) DNL vs Digital code at V_{REF}= 1.25V, V_{DD}=3.3V and T=20C & 85C

4) INL vs Digital code at V_{REF}=1.25V, V_{DD}=3.3V and T=20C & 85C