

# 1200V GaN Verilog-A Model Instructions

04/18/2023

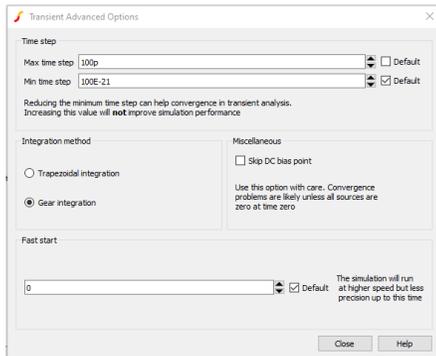
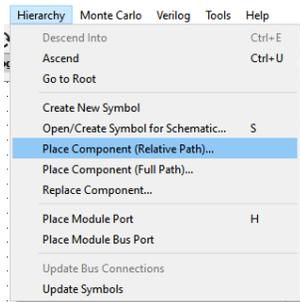
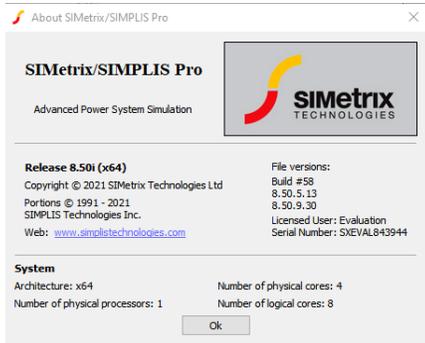
transphorm

Highest Performance, Highest Reliability GaN



# Important model information

- Please read “Notice.txt” for important information about model accuracy and copyright



- SIMetrix version recommendation
  - SIMetrix Pro v8.5
- Place following 4 files into the folder where you want to build and simulate the FQS based circuit
  - TP120H070WS\_model.v.1.0.sxcmp
  - spice3\_GaNfet5mohm.lib.txt
  - asmhemt\_fast.va
- Insert an instance of the 1200V switch into the circuit by going to “Hierarchy → Place Component (Relative Path)”. Then select “TP120H070WS\_model.v.1.0.sxcmp”
  - The 1200V symbol will be inserted
- Simulation conditions
  - Go to “Simulator” → “Choose Analysis” → “Advanced Options” → Select “Gear integration” for best convergence results