Announcing the Modelithics® Qorvo GaN Library v1.9

The Modelithics® Qorvo GaN Library consists of a steadily growing set of non-linear models designed for excellent accuracy, and validated with broadband S-parameters and load pull data at multiple frequencies. Each model has a detailed datasheet summarizing model features, development details, and model performance plots. Some devices are also represented with small-signal and noise models in addition to non-linear models.

The newest version of the Modelithics Qorvo GaN Library, **v1.9**, is now available for download from the Modelithics website. Three models have been replaced with updated versions that include extended validations and enhanced model performance. The TGF2023-2-05 (25W die), T1G4020036-FL (260W package) and T1G4020036-FS (260W package) GaN device models have been improved with respect to S-parameter accuracy and the package device model is extended to work under 50V conditions for 200-400W designs. Earlier model versions will continue to work in legacy schematics, but are not recommended for new designs.

Six small signal models, the TGF2933, TGF2934, TGF2935, TGF2936, TGF2941 and TGF2942, have been updated to include noise parameter validations up to 36 GHz. The corresponding non-linear models for three of these, TGF2935, TGF2936 and TGF2942, have also been validated against the mm-wave noise measurements.

The TGF2954 die model (25W, 32V) is now validated with measured S-parameters and load pull data at 25C and 65C. The model datasheets show the accuracy of the large-signal model against this new measurement data.

Click here to view the Modelithics Qorvo GaN Library v1.9 Release Notes
and
Click here to see some featured presentations and information about the models

The updated library installer can be found in the "My Downloads" section after logging on to the Modelithics website.

If you have any questions, please contact us at support@modelithics.com.

Thank you!
The Modelithics Team

*Please forward this email to other designers that may be interested in using the advanced and accurate Qorvo GaN simulation models. Designers wishing to request the models for the first time can do so here.