

ARTWORK CONVERSION SOFTWARE

Automated ODB++ Verification Solution for Advanced Digital Lithography

As advanced packaging, heterogeneous integration, and panel-level manufacturing continue to push semiconductor design and fabrication to new limits, ensuring the integrity of manufacturing data has become increasingly important.

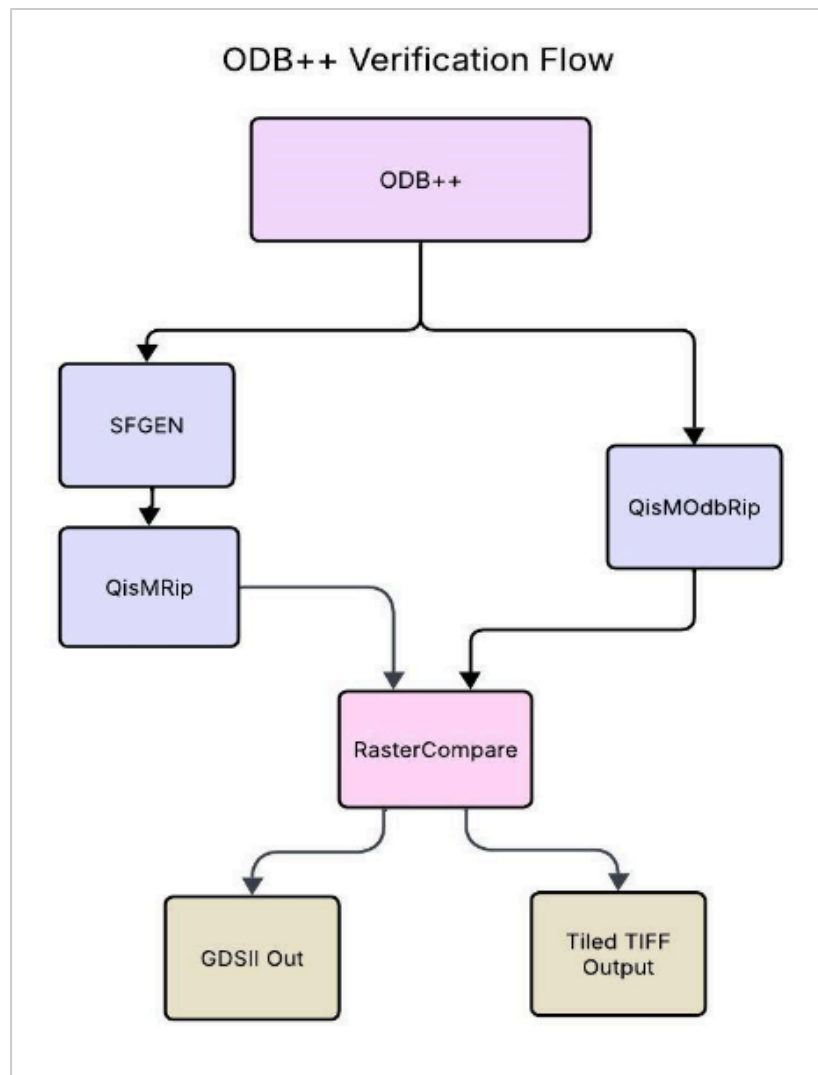
Artwork Conversion Software is introducing a new automated ODB++ verification solution designed for Digital Lithography Technology (DLT) environments. The solution enables fast, scalable verification of ODB++ manufacturing data against downstream GDSII lithography databases.

During data preparation and format conversion, even small geometric discrepancies can impact critical features when processing large, high-density substrates. The automated verification workflow helps identify unintended differences introduced during conversion, providing manufacturers with greater confidence in the accuracy of lithography-ready data. Designed for both development and production environments, the solution supports rapid validation while reducing the time and effort associated with manual inspection.

The Workflow

- **SFGEN** - ODB++ to GDSII conversion and advanced data preparation (boolean, transformation, sizing).
- **ODBRIP** - high-resolution ODB++ rasterization
- **QisMRip** - high-performance GDSII rasterization
- **RasterCompare** - automated pixel-level comparison
- **VLBV** - integrated visual review and analysis

Together, these technologies provide automated full-panel verification for extremely large datasets including Gen 8.5 glass panels and imaging resolutions approaching 1/8 micron (203,200 DPI).



Key Capabilities

- Automated ODB++ \Leftrightarrow GDSII verification
- Pixel-level comparison with configurable tolerance filtering
- Multithreaded processing for terabyte-scale datasets
- Support for advanced packaging and panel-level manufacturing flows
- Full-panel verification typically completed in less than 20 minutes

About Avant Technology

Avant Technology Inc., founded in 1996 in Hsinchu, Taiwan, is a premier distributor of EDA tools and IP solutions across Asia. We connect clients with cutting-edge technology to fuel innovation and competitive advantage.

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