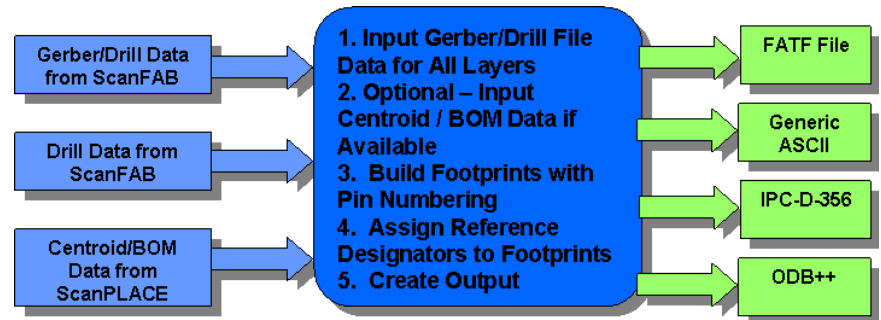


ConvertPLUS ARE™

WHAT IS ConvertPLUS ARE

ConvertPLUS ARE (Automated Reverse Engineering) is a full- featured, CAM software solution designed to compliment ScanCAD's family of scanner-based reverse engineering products.

This product takes the Gerber and ASCII component data from the scanning process and creates rich ODB++ and FATF outputs that include the component pin numbering and netlist information needed for CAD upload and schematic generation.



Feature Highlights

- Accepts IPC-D 356 files, Centroid files (from ScanPLACE) and silkscreen layers to create Reverse engineering component information.
- Outputs include: ODB++, FATF, ASCII, IPC-D 356 Netlist.
- Special macro specific to convert Gerber files to ScanCAD-ready files for import.
- HyperNETLIST Extraction can generate Netlist information for even the largest of designs in a matter of minutes.
- Import Wizard that loads ALL industry formats (Gerber, Drill, Mill, HPGL, DXF, and more).
- Intelligent Data Transfer with ODB++, ODB++ (X), and IPC-2581.
- Database Navigator provides quick and easy access to all necessary information without the need for menus or toolbars.

Analysis Features

- Browse Errors Directly from Navigator
- Graphical Find Duplicates
- Graphical Layer Compare (*Compare Any Two Layers Quickly and Accurately, Browse Differences Through the Navigator*)
- Design Information Queries (*Quickly check Min. Air Gap, Min. Trace Width, Number of Conductive Layers, Number of Drill Hits, and More*)
- DRC w/AutoCorrect (*Track-to Track, Track-to Pad, Pad-to-Pad, Min. Track, Min. Pad, Board Edge, and More*)
- Graphical Netlist Comparison (*Shorts, Opens, No Copper for Net, No External Net for Copper. Errors are Highlighted Using Navigator*)
- Pin-Point Netlist Errors (*Quickly Locates Short and Open Errors from Netlist Comparison Results and Highlights the Location*)

Features	Convert PLUS	ConvertPLUS ARE
IPC-2581 import/export	X	X
ODB++ import/export	X	X
Modification	X	X
Redline mark-up	X	X
Macro/scripting	X	X
Optimization	X	X
Quoting information	X	X
Design rule checking	X	X
Netlist Import, Export and Compare		X
Assembly Reverse Engineering		X

Advanced Features

- Database Navigator (*Quick Access to Layers, Apertures, Netlists*)
- Layer Sets (*Define Layer Sets for Blind & Buried Vias and MCM Stack-Up*)
- Interactive Data Grouping (*Group Objects Together for Fast and Easy Editing*)
- HyperNETLIST Extraction (*Supports SMT, Thru-Hole, Blind & Buried, and MCM*)
- Layer Scaling
- Merge Multiple PCB Files
- Automatic Draw-to-Flash Conversion (*Convert All Layers at Once, Use Mask Layer as Guide, and More*)

Assembly Reverse Engineering

- Integrated Footprint Library: Control "master footprints, device creation and association and pin numbering
- Parts: Identify, delete, query, BOM report
- Fiducials: Identify and report
- Analysis: Device spacing, centroid, comparison, BOM compare
- BOM Import: Finalize reverse engineering with part numbers, device descriptions, values, and tolerance data
- Export: FATF, ODB++, ASCII, IPC-D-356 Netlist

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