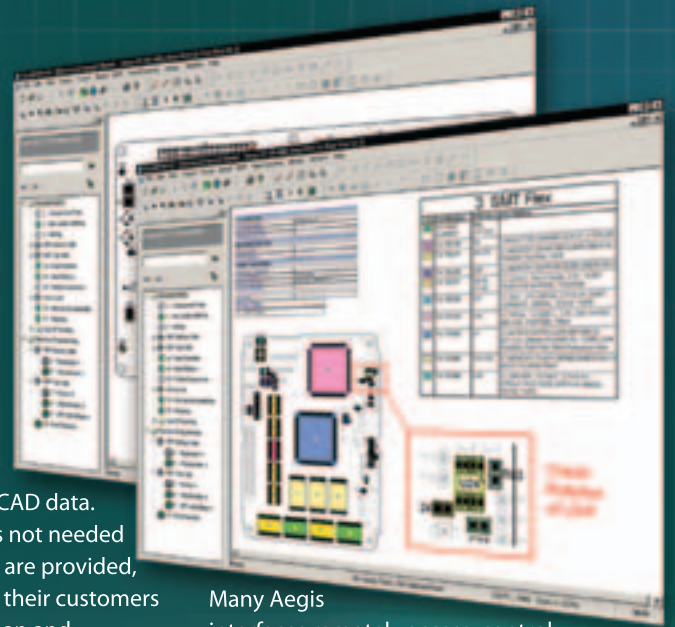


CIRCUITCAM™ DATASHEET

Rapidly create machine programs, documentation, process instructions, and more...

CircuitCAM is powerful, easy to use and flexible. Manufacturing and process engineers use CircuitCAM to convert CAD design information into rich process routing, visual assembly documentation, reports and optimized machine programs. CircuitCAM is the solution for preparing the complete shopfloor information package to support the manufacture of quality product.



>> FACTORY MODELING

CircuitCAM's proven "Factory Modeler" defines factory machines and workstations, your factory assets, and all the possible process routings through these machines. Each manual station or machine in the flow is intuitively modeled, complete with machine databases, logic decisions, associated documentation, quality collection parameters, decision evaluations, and preproduction setup tasks. Alternate routes carry alternate recipes and document sets to enable immediate line switchover or line truncation during production when required. The Factory Modeler is the process backbone of not only CircuitCAM, but also the entire Aegis software system—modeling everything from incoming inspection to box build.

>> DESIGN DATA IMPORTING

Engineers use CircuitCAM's integrated interpreters to automatically detect and import the native CAD file formats of over 30 different vendors. It also imports a wide variety of production machine formats and transforms them into equivalent CAD. An intuitive and easy-to-use Gerber processor is integral to the system. If CAD and Gerber are not available the board may be

scanned using a desk top scanner, and digitized to develop the equivalent of a CAD file.

Simple BOMs can also be imported to merge with the CAD data. Knowledge of CAD formats is not needed as easy to follow instructions are provided, which many users pass on to their customers to help in the provision of clean and appropriate data.

After import, the graphical rendering of the CAD image is checked for errors and can be edited. Editing may include the highlight region used in documentation, pins, body graphics and even custom text fields or photographic images of the component.

>> PROCESS DEVELOPMENT

Once the CAD and BOM data are merged and "cleaned" the engineer applies the product across the factory model—a unique, logical and intuitive layering of product to process. Each process step creates its own visual aids for assembly operators or inspectors and presents a gateway to one of the hundreds of machine programming interfaces offered within CircuitCAM. The user can rapidly annotate visual aids and generate programs as the final task before issuing the project for release.

>> MACHINE PROGRAMMING

CircuitCAM supports over 130 individual models of production machines to aid fast and effective offline programming through optional machine interfaces. Each interface is customized to a particular machine type.

Many Aegis interfaces remotely access, control and edit machine databases as well as generate the assembly programs offering unprecedented control of manufacturing information.

CircuitCAM typically uses actual machine library databases as its data source and presents this library within its own user environment. This way, initial library setup is eliminated and recurring editing can be done on or off line. This method also expedites programming and eliminates redundant library databases in the enterprise.

>> VISUAL AID DESIGN

CircuitCAM utilizes the CAD and product data it imports to automatically generate visual aids and documents such as color-coded inspection prints. User-defined workgroup automation templates provide virtually automatic document generation. Users may even expand the power of their production documentation with video, audio and internet support. Document generation is achieved with unprecedented speed and accuracy with new products as well as when engineering changes occur. Documentation may be delivered electronically to the factory floor using Aegis iView.

SUPPORTED CAD IMPORT FORMATS

Accel EDA, Accel Tango & Accel PCAD
 ASCII CAD XY
 Cadence Allegro (includes custom script)
 Incases
 DIF(Design Interchange Format)
 DOS PCAD
 EEDesigner
 FABMaster File Format
 GenCAD v. 1.4
 Gerber RS-274D and RS-274X
 Intergraph Veribest GenCAD
 IPC-D-356
 Mentor Graphics
 ODB++ (Valor Data Format)
 Orcad
 PADS Perform / 2000 / 3000
 PADS PowerPCB
 PADS Work
 Pantheon
 Protel 98 / 99
 Scanned Image
 SCI Cards
 Supermax
 Tango for DOS
 Theda by Incases
 Ultiboard GenCAD
 UNICAM File Format
 Zuken Visula and Cadstar (via CADIF format)

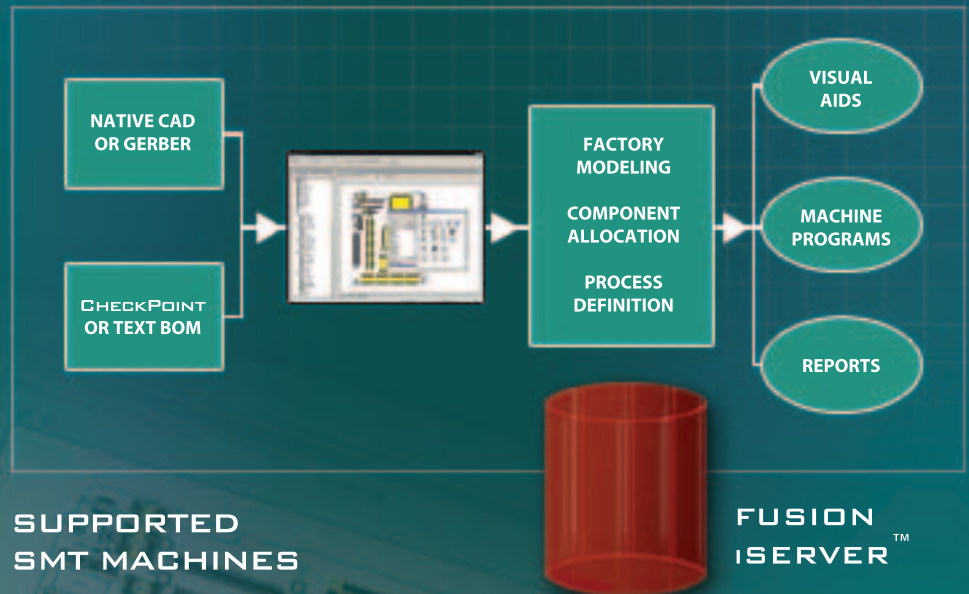
SUPPORTED MACHINE IMPORT FORMATS

Contact Systems CS3 *
 Europlacer *
 Fuji Source Program
 MYDATA PCB *
 PanaPro PCB
 Panasonic POS
 Philips FTIP *
 QuadCAD
 Siemens *

SUPPORTED CAD EXPORT FORMATS

Any ODBC Database Source
 ASCII Text Files
 Bill of Materials Data
 Direct from CAD
 Excel Spreadsheet Files
 GENCAD
 Other CircuitCAM Project Files
 Sony TIMMS

CIRCUITCAM PROCESS DATA FLOW



SUPPORTED SMT MACHINES

Amistar
 Assembléon / Phillips (PPS, CADTools, GPP) *
 Autosplince
 Celmacs
 Citizen *
 Contact Systems *
 Dynapert
 Europlacer *
 FUJI (MCS, F4G, Flexa)
 JUKI (HLC) *
 KME
 Manncorp
 MIMOT *
 MPI / MANIX
 MYDATA automation *
 Panasonic
 Royonics
 Samsung *
 Sanyo
 Siemens (Siplace Pro) *
 TDK
 TYCO (QUAD, Meridian, Multitroniks) *
 Universal
 Yamazen *
 Zevatech

SUPPORTED PROCESS MACHINES

Asymtek
 Camalot / MPM / Speedline *
 DEK *
 EKRA *
 GPD *
 Heller

Fusion iServer integrates CheckPoint component and bill-of-materials information to CircuitCAM process data in a single relational database. This web-centric, scalable information server enables efficient multi-user enterprise wide access, while maintaining data integrity with the original customer files.

SUPPORTED TEST & INSPECTION MACHINES

Agilent 5DX
 Christopher *
 Photon Dynamics (CR Tech / IRSI)
 MVP *
 OMRON *
 Orbotech
 Qualmax
 Texmac
 Theta Group
 Viscom
 VI Technology *
 YESTech *

* Aegis Strategic Alliance Partner

Aegis Industrial Software Corporation
 Headquarters: Horsham, PA, USA
 T: 215.773.3571 E: sales@aiscorp.com

Aegis Industrial Software (Europe) Ltd.
 Cheltenham, Glos, UK
 T: +44(0)1242 251 991 E: eurosales@aiscorp.com

WWW.AISCORP.COM