



Complete Software Solution for PCB Assembly

Import of **CAD** data

Program creation for **Pick & Place Machines**

Program creation for **SPI & AOI**

Program creation for **Testers**

Work instruction editor

Test coverage analysis

Repair assistance

Data analysis



 **OFFLINE
PROGRAMMING**

100% made by Accelonix

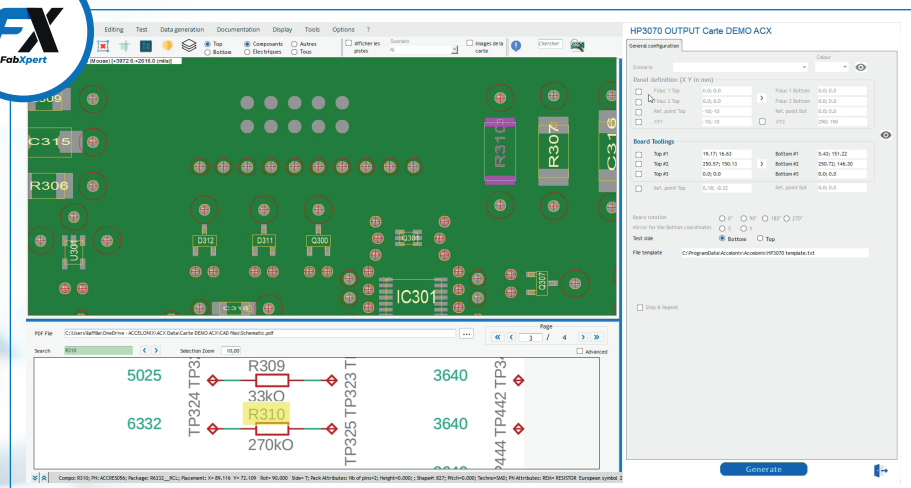


Accelonix delivers innovative solutions to electronics organisations around the world
www.accelonix-software.com

Accelonix Software is a **strategic division** of the Accelonix Group, **established over a decade ago** to meet the growing demand from our customers for software solutions tailored to the world of **PCB manufacturing**.

FabXpert® Program Creation for Manufacturing and Testing

FabXpert is a software solution and **digital data management** tool designed for the electronic circuit manufacturing industry. It addresses various needs by offering **specialized modules** for manufacturing, testing, creating work instructions, test coverage, and repair station module. FabXpert is part of a software suite **based on ease of use, creative support, and rapid development**.

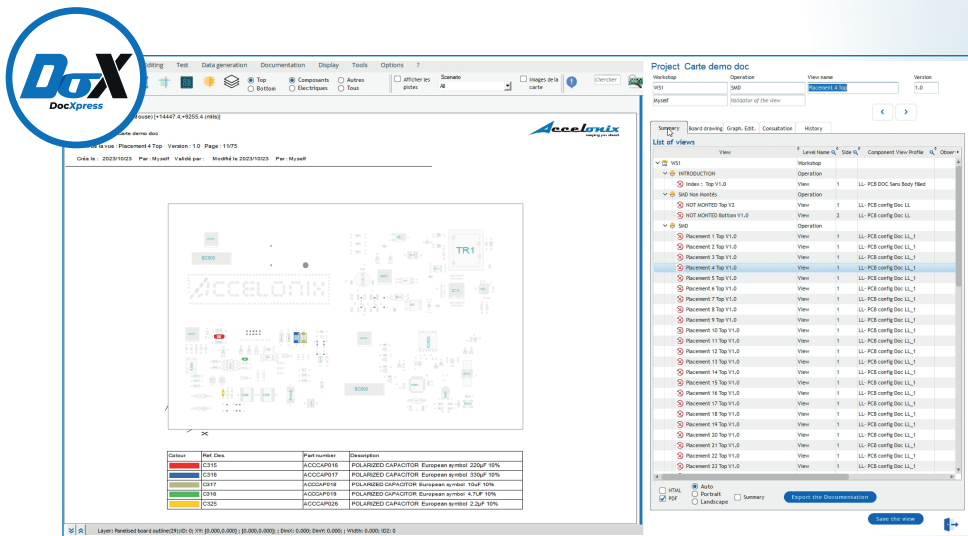


HIGHLIGHTS

- ✓ Availability of numerous **CAD interfaces**
- ✓ Ultra-fast and customizable PCB viewer
- ✓ Link between the graphic representation of the PCB and the electrical diagram
- ✓ Efficient importer of graphic bills of materials, text, and Excel formats
- ✓ User-assistance-oriented editing menus to prevent the omission of important information
- ✓ Consideration of component rotation offsets for placement
- ✓ Distribution of components by scenario, automatically created from the bill of materials
- ✓ Creation tool for **Classic ICT** (Bed of Nails) and **Flying Probe Testers**
- ✓ Integrated **DFT Module**, accessibility, and **Test Coverage**
- ✓ Numerous output interfaces for placement, inspection, and testing machines

DocXpress® Documentation Creation

One of the **crucial steps** in PCB manufacturing is creating detailed documentation to **guide the production process**. DocXpress is designed to streamline and optimize this process, offering **dynamic and user-friendly features** to meet the specific needs of the electronics industry.



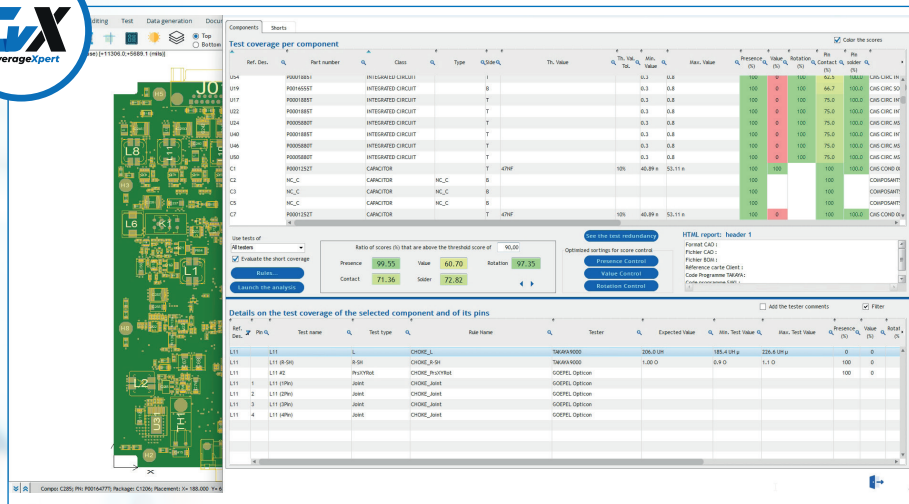
HIGHLIGHTS

- ✓ **Dynamic** creation and modification of documentation
- ✓ Independent configuration of each view, component grouping, colours...
- ✓ **Intuitive** component selection with a **user-friendly query tool**
- ✓ Creation and reuse of page templates, views, and documentation
- ✓ Import of images and external documents
- ✓ Integrated graphical editor
- ✓ **Simplified user navigation** with separate design and navigation modes
- ✓ Dynamic link with the **PCB viewer**
- ✓ Integration of **PCB images** for enhanced display
- ✓ Printing in the form of **vectorized PDFs**
- ✓ **Paperless orientation** for quick update and distribution of instructions
- ✓ **Data sharing** with other Accelonix suite software

CoverageXpert®

Interactive Test Coverage Analysis

CoverageXpert is an interactive, non-programmatic tool for **analyzing test coverage** of an electronic board and **generating detailed reports** on this coverage.



HIGHLIGHTS

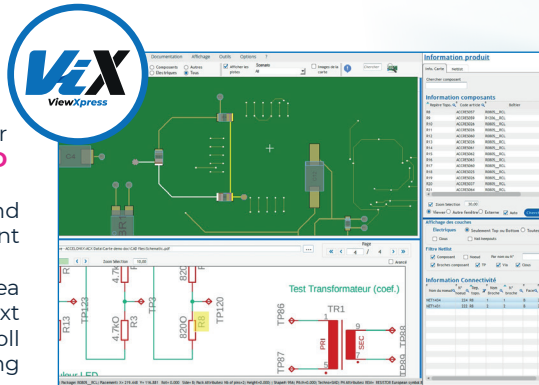
- ✓ Validation and analysis of product accessibility
- ✓ Comparison of **CAD** and **BOM** data with the complete provided coverage of multiple processes: **AOI, ICT, FPT, manual inspection, SPI**, etc.
- ✓ Creation of test definitions for **predictive test coverage**
- ✓ For each component, associated tests are displayed, and the resulting test scores are calculated based on rules defined by component class and test type.
- ✓ Prioritization of scores highlights components that appear to be insufficiently tested
- ✓ Calculation rules for scores are configurable, allowing for interactive analysis adjustments to account for card-specific characteristics, certain tests, and specific testers
- ✓ Creation of reports in **PDF** and **HTML** formats

ViewXpress® Data Viewer for PCBs

ViewXpress is the **data viewer** for the Accelonix software platform. It can read all project data, **from CAD to electrical schematics and documentation** created with the **DocXpress module**.

HIGHLIGHTS

- ✓ Project manager
- ✓ Display of the view for components defined by **CAD data**
- ✓ Configuration of colors and shapes to use for component drawing
- ✓ Mouse wheel zoom, area selection, toolbar, context menu, best zoom... Mouse scroll for viewer scrolling via dragging
- ✓ Device selection in the viewer by mouse click and display of related information (components and netlist)
- ✓ Search for a component and equipotential with automatic selection in the viewer
- ✓ Link between the graphical representation of the board and the electrical schematic
- ✓ Display of the list of components and their attributes, list of packages and their drawings
- ✓ Selection of **Top or Bottom view**
- ✓ Display of mouse position in mm and mils, distance measurements, and display of documentation created with the **DocXpress module**



RepairXpert® Diagnostic and Repair Station

RepairXpert is a repair station that allows users of testers to **access innovative and unique features**. In just a few clicks, the software is operational. Minimum configuration and **maximum simplicity** make this station an extremely **efficient tool**.

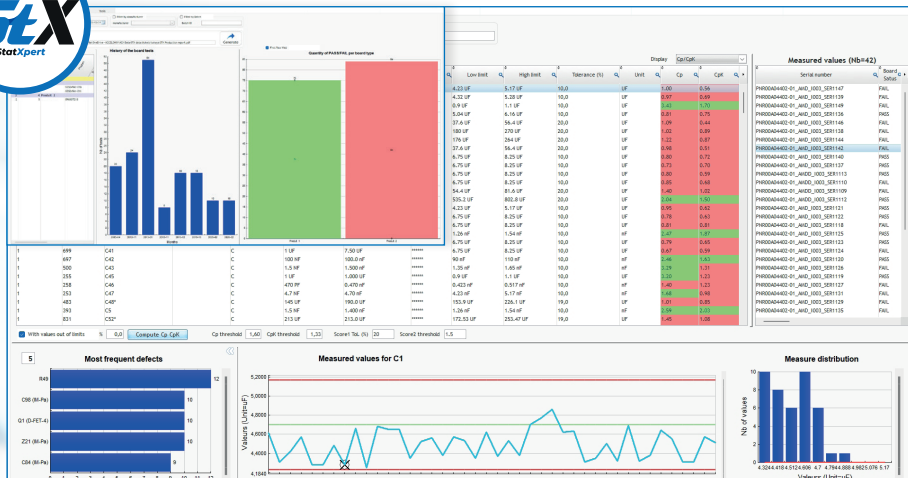


HIGHLIGHTS

- ✓ **Automatic playback mode** for Tester files located in the configured directory and extraction of faults/defects
- ✓ Storage of test data in a database for **traceability** of boards.
- ✓ Barcode input field for product identification and display of the defect list for the entered serial number
- ✓ For a given defect, repair history (repair codes and comments) for identical defects
- ✓ **Automatic panel definition** using Tester data (only available on certain testers).
- ✓ Display of the **list of pins** for a node or component
- ✓ For each repaired fault, entry of a repair code and generation of a repair ticket

StatXpert® Statistical Analysis of Production Data

The StatXpert software provides both **statistical analysis tools** in the form of **Cp, Cpk, standard deviation calculations**, and an **interactive graphical tool** that visualizes the **changes in measurements** over time without any prior configuration work.

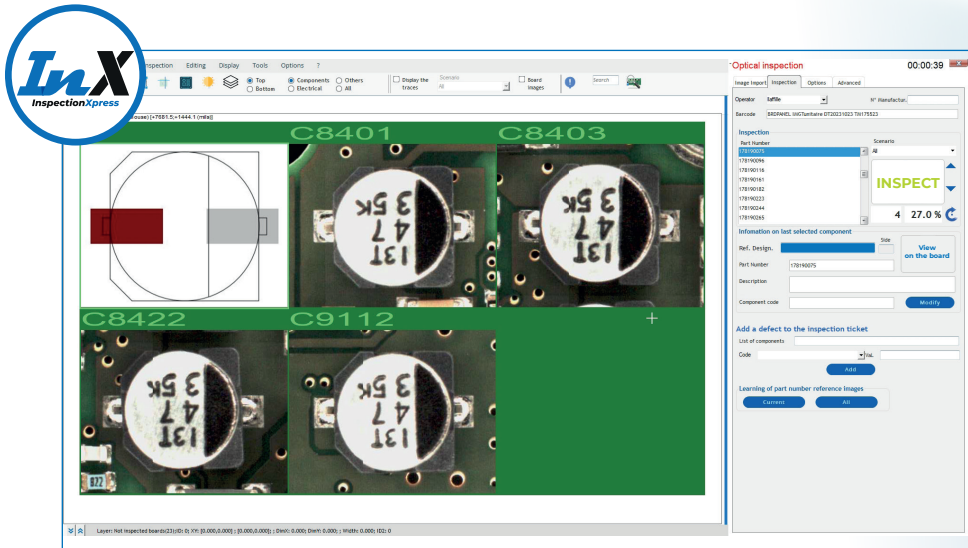


HIGHLIGHTS

- ✓ **Calculation of key statistical indicators** to validate the stability of your programs, accuracy, trends over time, and the impact of ongoing production changes
- ✓ It offers a **wide range of controls, sorting, and filtering options** that facilitate analysis by correlating measurements and results
- ✓ It allows for quick and easy data collection from your testers and production machines
- ✓ Creation of **numerous integrated reports** in PDF format
- ✓ Data analysis to quickly **identify technical issues** (measurement instability, debugging problems) and initiate improvements
- ✓ **Highly configurable automation:** automatic data collection, product selection for automation, report creation based on user-defined parameters, and report generation triggers

InspectionXpress® First Article Inspection

Inspection Xpress provides **fast and reliable** 100% board analysis through an innovative image capture process, **reducing waiting times** and production line interruptions. This powerful software is suitable **not only for first-board inspection** but also for prototyping, small-series production, and final quality control.



HIGHLIGHTS

- ✓ Software assistance for visual inspection that enables the **assembly of images** on an inspection panel, with **automatic grouping and display of components** (Patented)
- ✓ **CAD data import** for product visualization
- ✓ Advanced image import and **cropping algorithms** for the boards to be inspected.
- ✓ The software package is complemented by image capture hardware. Accelonix markets a range of industrial products, from **1200 DPI** (high resolution) to **2400 DPI** (very high resolution)
- ✓ **Numerous inspection assistance features**, including operator and manufacturing number management, guided defect code entry, translation of resistance markings into values, and the display of article code descriptions from the bill of materials
- ✓ Assistance in the search for unwanted elements on the board by examining the image zone by zone and masking the components



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