

PCB Layout

Single environment for placement & routing of today's most complex PCB designs

Overview

Xpedition® xPCB Layout, formerly known as Expedition PCB, combines ease-of-use with advanced functionality, enabling designers to create the most complex of PCB designs.

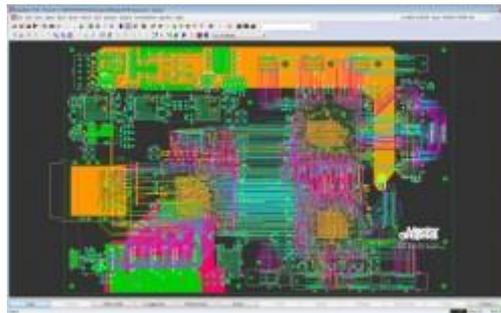
Its interactive and customizable multi-pass autorouting controls include:

Differential pair routing

Net tuning

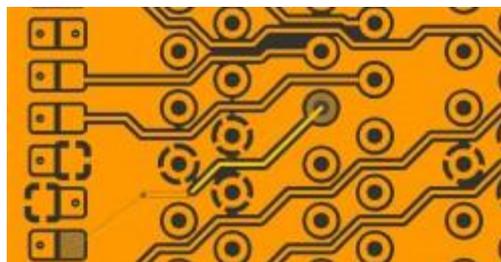
Manufacturing optimization

Microvia technology



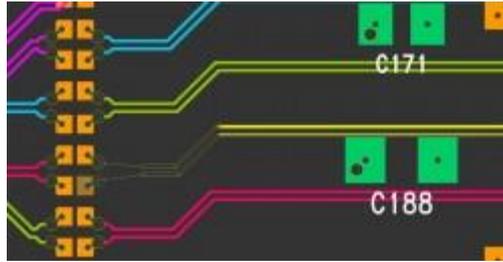
Single, integrated place and route editing environment

Helps reduce total design time and increase productivity by providing a single environment for critical layout tasks



Correct-by-construction design methodology

Helps designers produce high-quality results and eliminate clean-up time



Addresses your most important design challenges

Provides all the tools designers need to handle complex design challenges including differential pair routing, net tuning, manufacturing optimization, flex circuits, embedded passives, and microvia technology

Technical Specifications

- Common constraint definition environment is shared between schematic capture and layout, allowing the evaluation of critical signals at any design stage
- Autorouting technology combined with interactive editing capabilities produces a single, powerful and easy-to-use design environment
- Common database and user interfaces and rules increase productivity
- The RF module integrates RF and PCB design; the PCB layout environment understands RF circuitry and interfaces directly with Agilent and AWR RF simulation tools
- Clears area fills automatically around traces, vias, and pads as the board is edited
- Rules-by-area greatly improves routing around BGAs and other fine-pitched parts
- Multiplow functionality allows you to simultaneously route multiple nets, including differential pairs, with true 45 degree routing, including routing through areas of staggered pins
- Common constraint definition environment is shared between schematic capture and layout, allowing the evaluation of critical signals at any design stage
- The design reuse module creates and stores reusable blocks of circuitry, including schematic and PCB placement and routing data
- The variant management tool enables the creation of multiple product configurations from a single design database