

# Gemini-X - The Power to Predict

## *Take control of your PCB registration*

### Do you have problems with:

Lower yield on high layer PCBs on large panels  
Meeting your customers' technology roadmap  
Batch-to-batch variability and registration failure causing late shipment  
Having to make a pilot lot to measure scale factors  
High scrap levels when making HDI designs  
A lack of intelligent data analysis  
Laser and through-vias not well aligned  
An inadequate or outmoded registration system

### Do you need?

Proven integrated registration solution  
A better technical roadmap  
    Higher layer counts on larger panels  
    Denser features  
    Increased SBU capabilities  
Higher yields  
Faster Time to market  
Predictable on-time delivery  
Increased productivity

## XACT Solution

- Self learning Intelligent system
- Predict scale factors with unrivalled accuracy
- No coupons – no loss of valuable real estate
- Control and predict linear & non linear distortion
- Powerful, robust & easy to use
- Real time analysis and feedback
- Configurable and customisable



Contact: [info@xactpcb.com](mailto:info@xactpcb.com), [www.xactpcb.com](http://www.xactpcb.com)

XACTPCB Limited, Saville Exchange, North Shields, Tyne and Wear, UK.



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## *Take control of your PCB registration*

### Benefits

Instantly improve yields and product quality  
Connects with existing shop floor equipment  
Intelligent integration with CAM and Pre-CAM  
Rapid ROI  
Reduce lead-time  
Maximise profit  
Improve technical capability  
    Annular ring  
    Higher layer count  
    Increased density  
Improved product reliability

#### Linear

Determine post lamination scale error & compensate drill program dynamically.

Reduce batch variability.

Improve yield immediately

Intelligent reaction

#### Linear+

All the features of Linear combined with advanced prediction capability. Interfaces to CAM and production machines  
Intelligent self learning system accurately predicts inner layer scale factors. For high layer count and all HDI PCBs.

#### Non Linear

Complete Linear+ prediction capability

PLUS

Non-Linear measurement and compensation capability

Non linear intelligent reactive control

#### NonLinear+

The ultimate predictive solution.

Non-linear and Linear prediction & compensation capability

Designed for PCB production at the best possible yield

## XACT GEMINI-X Range

Modular System Structure

CAM and Machine Interfaces

System integration  
Powerful database

Custom modules and options



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