

Integr8tor Nexus AI inside



An innovative new generation of a field-proven Sales & Engineering Tool

- Faster, more accurate quotations
- Faster in production
- AI-Powered PDF Recognition
- Less work in CAM
- Faster, better planning
- Web based intelligent workflow system
- Access Integr8tor Nexus from anywhere
- Seamless integration with other systems

AI-Powered PDF Recognition

Integr8tor Nexus' advanced AI technology sweeps incoming PDF files for technical specifications. Requirements and values are extracted as part of the automatic design analysis process and the results submitted for confirmation in a dedicated, easy-to-review validation interface.

With most parameters pre-filled and confidence-rated by the AI, operators only need a quick final check before confirmation. This transforms what was once a time-consuming, error-prone task into a fast, reliable, and highly efficient process.

Faster, more accurate quotations

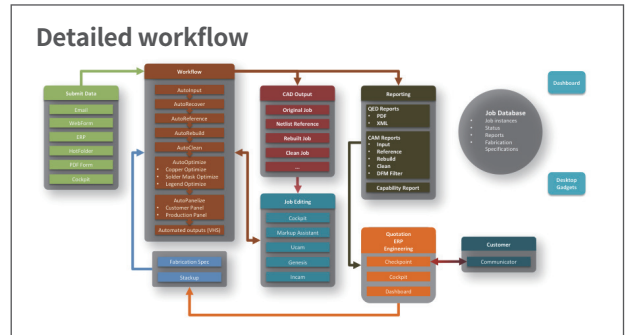
Quoting imposes a hard choice on the PCB fabricator. Use your CAM system, and you waste valuable CAM resources if you miss the order. Do not use it, and you might miss process-critical details. Integr8tor Nexus provides the way out. It automatically calculates a detailed report on all process-critical parameters, in minutes. Quotes are both accurate and fast. Users report quoting time cut by 50%. Faster quotes result in more orders. Better quotes result in better margins.

Faster, better planning

When you receive an order, Integr8tor Nexus immediately and accurately calculates the full set of process parameters according to your capability classes, without the need to wait for CAM. By planning earlier, you gain time for time-critical jobs. By planning smarter, you minimize shop-floor downtime and increase effective plant capacity.

Faster in production

Integr8tor checks everything! Integr8tor Nexus Hotspot, a graphical DFM review tool in the browser, enables the most detailed review. Customers receive fast, clear and accurate feedback on any design or DFM issues.



Less work in CAM

Integr8tor Nexus automates the routine CAM work, freeing up valuable CAM engineers for value-added tasks. Users report up to 30% savings in CAM time and costs.

About Ucamco

Ucamco is a market leader in PCB CAM and Pre-CAM Software, Laser Photoplotters and Direct Imaging Systems. We have more than 35 years continuous experience developing and supporting leading-edge front-end tooling solutions for the global PCB industry. We help fabricators world-wide raise yields, increase factory productivity, and cut enterprise risks and costs. Ucamco is the developer of the Gerber Format, a backbone of the electronics manufacturing industry.

Markets

- Rigid PCB Mfr ✓
- Flex PCB Mfr ✓
- Flex-Rigid PCB Mfr ✓
- HDI PCB Mfr ✓
- PCB Masslam Mfr ✓
- PCB Equipment Mfr
- PCB Traders ✓
- PCB Designers ✓
- PCB Test Centers
- IC Packaging ✓
- Chemical Milling
- High Resolution Graphic Arts
- Flat Panel Display

Product Families

- CAM
- Pre-CAM and Engineering ✓
- Electrical Test
- Equipment Front Ends
- Format Converters & RIP's
- Laser Photo Plotters
- Direct Imagers

Integr8tor Nexus

Web-based intelligent workflow system

The innovative GUI in the browser, with dynamic CAM images, is easy to learn and is accessible to all – not only for CAM engineers. Its high-resolution DRC review in the browser with deep zooming enables efficient, detailed work. Organized information at your fingertips: a clear queue shows the status of all jobs, and drills down for details of the selected one. The workflow system processes work in background and notifies the users when it is done or when it needs assistance. AI automates routine tasks. A powerful scripting language automates your custom routine tasks.



OED Report Integr8tor

Name: pcb-4352/rev1.2zip | Id: 4911 - Auto Analysis Processing
 Report Generated on: Nov 8, 2013 2:46:27 PM

Single PCB View: Top View, Bottom View

Summary - General

PCB Size	125.000 mm x 95.000 mm	Copper Layers	10
PCB Thickness	1.600 mm	Solder Mask	Both
Customer Panel Size		Solder Mask Color	Green
SMD Pads Top	3449	Legend	None
SMD Pads Bottom	2437	Legend Color	White
SMD Density Top	2904 SMD/dm ²	Paste	None
SMD Density Bottom	2052 SMD/dm ²	Pieloff Mask	None
Number of Nets	1518	Carbon Mask	None
Drill Hole Density	6541 Holes/dm ²	Electrical Test	Double Sided
Holes in SMD Pads	Yes	Max. Aspect Ratio on PTH	8.0

Summary - Sequences

Type	Sequences	Tools	Min. End Dia.	Max. End Dia.	Holes	Min. Ring on Outer	Min. Ring on Inner	Min. Cir. Hole to Copper
			mm	mm		mm	mm	mm
Blind	2	2	0.100	0.100	4267	0.098	0.098	0.220
Buried	1	1	0.200	0.200	2119		0.172	0.450
PTH	1	2	0.200	1.100	1395	0.198	0.198	0.400
Plated (Total)	4	5	0.100	1.100	7754	0.098	0.098	0.220
NPTH	1	5	0.900	4.400	13			unknown
Total	5	10	0.100	4.400	7767	0.098	0.098	0.220

Seamless integration with other systems

Integr8tor Nexus REST API, WebSocket and database access integrate seamlessly with third party ERP, CRM, CIM and engineering systems to further streamline your workflow. Smooth job exchange between Integr8tor Nexus and any CAM system, Ucamco, KLA, CAM-350... streamline your whole front-end operation.

Access Integr8tor Nexus from anywhere

Inside or outside the company, in the cloud, in the sales, engineering and CAM departments, on the shop floor, and at your customer.

Nexus Capabilities Check

Function | Removed | Basic | Finish

legend		Top_Silk_gbr	
soldermask		Top_Mask_gbr	
outer	1	Layer-1_gbr	
inner	2	Layer-2_gbr	
inner	3	Layer-3_gbr	
outer	4	Layer-4_gbr	
soldermask		Bot_Mask_gbr	
legend		Bot_Silk_gbr	
plated		drt_gbr	
unplated		Unplated_gbr	
unplated		Unplated_3_gbr	

min Clearance (Track-Track / Track-Pad / Pad-Pad): 0.2

min Track Width / min Thermal Gap: 0.2

min Outer Layer Annular Ring: 0.75

min Inner Layer Annular Ring: 0.75

max aspect ratio for Plated hole: 5.3

distance Plated hole to Plated hole: 0.55

Unplated Annular Ring: 0.63