



Ucamco (former Barco ETS) is a market leader in PCB CAM software and laser photoplotting systems with a global network of sales and support centers. Headquartered in Ghent, Belgium, Ucamco has more than 25 years of continuous experience in developing, supplying and supporting leading-edge photoplotters and front-end tooling solutions





Day to day business during quoting:

- Many Quoting requests arrive every day.
- Customers want a fast and adequate response.
- Only 10-20% will be an order. Which means the 80-90% will not be an order!! These jobs have to be handled anyway which need lots of labor, costs a lot of time and money and disturbs the work in Sales and Engineering.....
 So we need a software to help us.....

Integr8tor

Integr8tor is a software tool to collect quoting parameters AUTOMATICALLY.

Integr8tor will also deliver a ready to use CAM job.

• Features:

- Collects the required parameters for quoting automatically.
- Creates a ready to use job for CAM (Original Job).
- Saves precious time for the engineers in both Sales and CAM.
- Engineers can concentrate on their core Jobs.

• Functions:

- Integrated e-mail server accepts incoming mails.
- Stackup recognition.
- Registration, Polarity and Outline detection.
- Layer renaming to the company's naming convention.
- Design analysis.
- · Detection of conflicts in data.
- Deliverables:
 - QED Report in PDF and XML format.
 - A ready to use original job for use in CAM.
 (For Ucam, Genesis/InCam or Gerber-X based CAM systems)

Architecture:

- Client server architecture.
 - Automated knowledge-based background workflow applications.
 - Fast, off-line operation on server away from CAM.
 - Client application based on Adobe AIR technology:
 - Greater flexibility (readily customisable)
 - · Access from any networked workstation

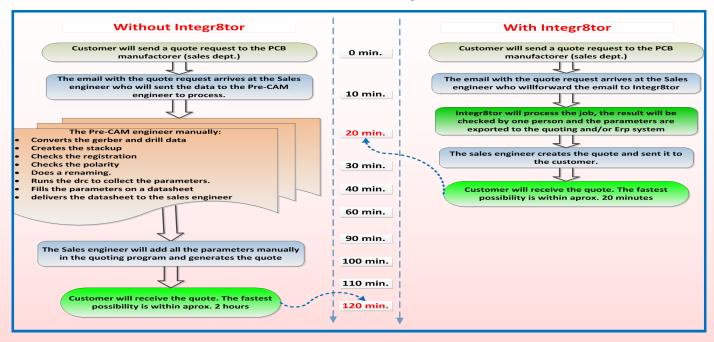




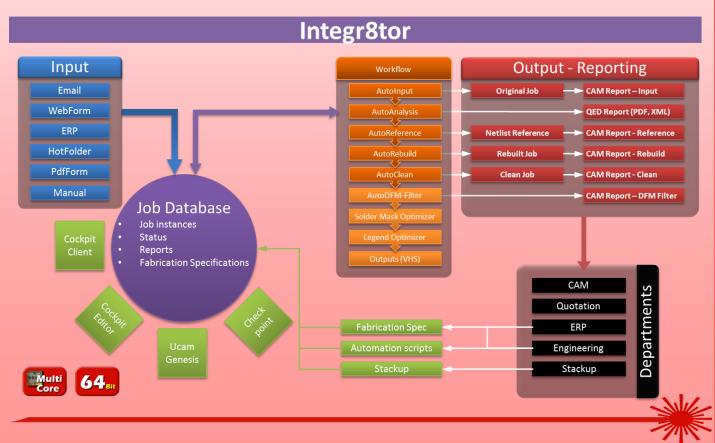


By using integr8tor a lot of time can be saved in collecting information required for quoting.

Users can deliver faster and more accurate quotes to customers.



Integr8tor's workflow including the NEW AutoCam functionality









Input formats

- All known archive formats like zip, rar 7zip;
- All CAM input formats like, gerber-X, gerber-d, ODB++, Ucam Job, Ucam dpf;
- All Drill / Rout formats like Excellon 1 and 2, S&M 1000 and 3000, hitachi, Posalux;
- Netlist formats like, IPC356A, IPC356B, Mentor NF, ODB netlist, Ucam Netlist, etc.

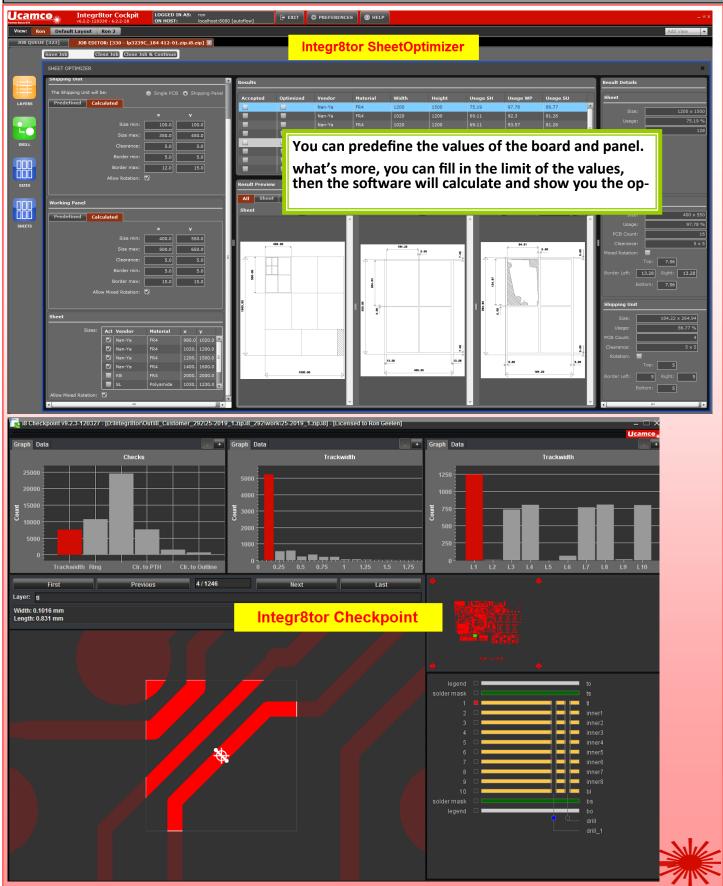
Output

- ♦ Documentation files;
- ♦ Job archive;
- ♦ Original job (DPF/ODB++/RS-274X)
- ♦ Layer images (PDF/PNG)
- ♦ QED Report (PDF/XML)
- ♦ Rebuilt job (DPF/ODB++)
- ♦ Clean job (DPF/ODB++)
- ◆ CAM Report (PDF)
- ♦ UFD Files etc.













QED Report

The QED report contains many sections with specific information. The report can be created in many different languages.

- Single PCB view
- **Copper Layers**

PCB Dimensions

- **General Summary**
- **Drill Tools**

Rout Tools Panel utilization

- **Graphical Stackup**
- **Finishes**
- Viaplug

Bareboard

Sheet optimizer

Archive Contents

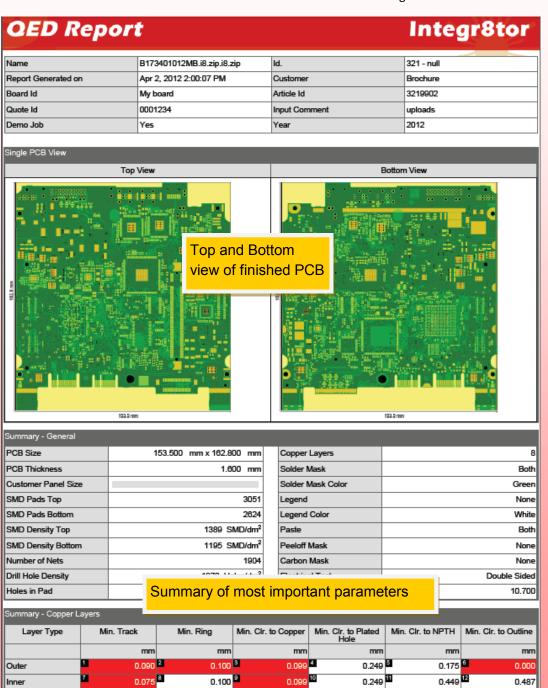
Inner

- Soldermask
- Scoring

0.249

0.487

Process Parameters



0.100





Total (including barrels)



Copper Layers												
File	Pos.	Min. Track	Min. Ring	Min. Clr. to Copper	Min. Clr. Pad to Pad	Min. Clr. Pad to Track	Min. Self- spacing	Min. Clr. to PTH	Min. Clr. to NPTH	Min. Clr. to Outline	Copper A	rea
		mm	mm	mm	mm	mm	mm	mm	mm	mm	dm ²	%
co	1	0.090	0.100	0.099	0.100	0.099	0.001	0.249	0.175	0.000	1.5399	70
11	2	0.300	0.100	0.099	0.120	0.099	0.000	0.249	0.450	0.487	1.1	
12	3	0.075	0.100	0.099	0.120	0.099	0.001	0.249	0.450	0.487	1,1	etailed copper
13	4	0.200	0.100	0.099	0.40	0.099	0.000	0.249	0.449	0.487	1.1 la	yer information
14	5	0.140	0.100	0.099			0.001	0.249	0.450	0.487	1.3	
15	6	0.075	0.100	0.099	Ú.		ndition 0.002	210	0.450	0.487	1.5791	72
16	7	0.500	0.100	0.099	0.120	0.088		ai form	attin	.487	1.9906	91
50	8	0.090	0.100	0.099	0.099	0.099	0.002	U	119	0.205	1.5422	70

0.7521

Finishes				~	
Side	Bare Copper Area	Exposed Copper Area	Exposed Gold Area	Exposed Silver	Area
	dm ²	dm ²	dm ²		Detail
Top (including barrels)	1.7527	0.3572			
Bottom (including barrels)	1.7550	0.3949			inform

3.5077

Detailed Finishes information

Drill Tools									
File	Tool Nr.	Span	Туре	End Dia.	Holes (in PCB)	Double Hits (in File)	Min. Ring on Outer	Min. Ring on Inner	Min. Pad Size
				mm			mm	mm	mm
drill	17	1-8	NPTH	0.700	2	0			
drill	12	1-8	NPTH	0.800	2	0			
drill	16	1-8	NPTH	0.900	4	0			
drill	15	1-8	NPTH	1.100	2	0			
drill	13	1-8	NPTH	1.500	1	0		Detai	led Drill T
drill	11	1-8	NPTH	1.700	2	0		inforn	nation
drill	14	1-8	NPTH	2.000	1	0			
drill	9	1-8	NPTH	2.100	2	0			
drill	8	1-8	NPTH	2.550	2	0			
drill	10	1-8	NPTH	3.200	4	0			
drill	7	1-8	NPTH	6.200	1	0			
drl	6	1-8	PTH	0.150	2283	0	0.148	0.148	0.446
drl	5	1-8	PTH	0.200	1288	0	0.150	0.150	0.500
drl	3	1-8	PTH	0.400	666	0	0.100	0.100	0.600
drl	2	1-8	PTH	1.000	46	0	> 0.200	> 0.200	> 1.400
drl	1	1-8	PTH	1.500	13	0	> 0.200	> 0.200	> 1.900
drl	4	1-8	PTH	1.600	12	0	> 0.200	> 0.200	> 2.000

Sequences											
Span	Туре	Tools	Min. End Dia.	Max. End Dia.	Holes	Min. Ring on Outer	Min. Ring on Inner	Min. Clr. Hole to Copper	Min. Clr. Hole to Hole	Min. Clr. Hole to Hole (Inner Seq.)	Min. Clr. Hole to Outline
			mm	mm		mm	mm	mm	mm	mm	mm
1-8	PTH	6	0.150	1.600	4308	0.100	0.100	0.249	0.300		0.740
All	Plated	6	0.150	1.600	4308	0.100	0.100	0.249	0.300		0.740
1-8	NPTH	11	0.700	6.200	23			0.175	> 1.600	0.600	0.850
All	All	17	0.150	6.200	4331	0.100	0.100	0.175	0.300	0.600	0.740

Detailed Hole information





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