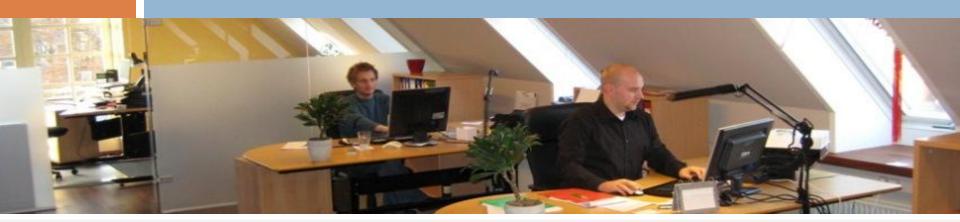
Azitech ApS



- Azitech Presentation



About Azitech Aps

- □ Founded in 2004
- Located in Odense and Copenhagen
- Production facilities in Europe and Asia
- Partner in high technology projects
- Specialized in HDI PCB outsourcing
- More than 10 years of professional PCB experience



Azitech Solutions

PCB-Direct.dk

- Online PCB management
 - 1-8 layers
 - Cost optimization
 - Instant quoting & ordering
 - Monitor orders
 - □ IPC class 2
 - ISO 9000 approved suppliers

Azitech PCB-service

- PCB from 1-50 layers
 - Fast turanaround
 - Microvias, blind & burried
 - Special materials
 - Burried resistors
 - PCB heatsink
 - Flex-Rigid PCB

Guided PCB-direct.dk tour



Supplier Concept

Based on the customers requeirements, Azitech chooses a suitable supplier from a network of leading PCB manufactores around the world.





PCB Service



- Supplier of rigid PCB, FPC, flex-rigid and stencils
- Quick turn prototypes
 - 24 hour-service
- Volume production
- Online PCB management software
- HDI guidance in cooperation with Axcon



PCB Capability

- □ PCB' up to 50 layers
- FPC' up to 6 layers
- Flex-rigid Max. rigid:10 layers, flexible: 6
 layers
- PCB Heatsink planes
- Buried resistors: 25 Ohms/sq. 250 Ohms/sq.
- Broad range of laminates and surface treatments





PCB Capability

	Azitech PCB-service	PCB-Direct.dk
Max. Layer Count	50	8
Min. Board Thickness	0.3 mm.	0.3 mm.
Max. Board Thickness	3 mm.	3 mm.
Max. Finished Copper Thickness (O/L)	200 um	200 um
Max. Finished Copper Thickness (I/L)	18 um.	18 um
Maximum Panel Size	540x610 mm.	540x610 mm.
Smallest Mech Drill Diameter	0.1 mm.	0.1 mm.
Smallest Laser Drill Diameter	0.004 mm.	No
Min Finished Hole Size	0.0075 mm.	0.1 mm.
Max. Thru Hole Aspect Ratio	30:1	16:1
Max. Blind Via Aspect Ratio	0.75:1	No
Min. LW/LS	0.05 mm.	0.1 mm.
Min. Pad Size	0.025 mm.	
Controlled Impedance Tolerance	5%	10%



PCB Classifications

- Azitech's network of suppliers, produces PCB's according to almost any classification.
- We suggest that you contact Azitech, to insure your PCB's are produced according to a cost efficient classification.









Approval	Azitech	PCB-Direct.dk
UL	Yes	Yes
ISO 9001:2000	Yes	Yes
ISO/TS16949	Yes	Yes
IPC 6012, Class 1	Yes	Yes
IPC 6012, Class 2	Yes	Yes
IPC 6012, Class 3	Yes	No



Material Capability

Vendor	Product	Туре	Lead free	Tg	Datasheet
Standard FR4					
ISOLA	DE104i	FR4	Yes	Tg-130	<u>Link</u>
ITEQ	IT140	FR4	Yes	Tg-135	<u>Link</u>
Kingboard	KB-6162	FR4	Yes	Tg-130	<u>Link</u>
Panasonic	R-1650C	Prepreg	Yes	Tg-130	<u>Link</u>
Shengyi	S1130	FR4	Yes	Tg-130	<u>Link</u>
Shengyi	S1141	FR4	No	Tg-140	<u>Link</u>
Standard High Tg					
Hitachi	MCL-E-679F(J)	Modified Epoxy	Yes	Tg-170	<u>Link</u>
ISOLA	PCL370HR	FR4	Yes	Tg-170	<u>Link</u>
ITEQ	IT158	FR4	Yes	Tg-150	<u>Link</u>
ITEQ	IT180	Modified Epoxy	Yes	Tg-180	<u>Link</u>
Kingboard	KB-6165	FR4	Yes	Tg-150	<u>Link</u>
Kingboard	KB-6167	FR4	Yes	Tg-170	<u>Link</u>
Nelco	N4000-13	Modified Epoxy	Yes	Tg-210	<u>Link</u>
Panasonic	R-1650V	Prepreg	Yes	Tg-170	<u>Link</u>
Panasonic	R-1755V	FR4	Yes	Tg-175	<u>Link</u>
Rogers	RO4003	Special laminate	Yes	> Tg-280	<u>Link</u>
Rogers	RO4350	Special laminate	Yes	> Tg-280	<u>Link</u>
Shengyi	S1000	FR4	Yes	Tg-155	<u>Link</u>
Shengyi	S1000-2	FR4/Phenolic	Yes	Tg-170	<u>Link</u>
Halogen Free					
Arlon	85N	Polymide	Yes	Tg-250	<u>Link</u>
Panasonic	R1566-W	DICY cured FR4	Yes	Tg-140	<u>Link</u>



Surface Capability

Name	IPC class 2	IPC class 3	Price idex
OSP	Yes	Yes	100 USD
HASL	Yes	Yes	105 USD
Lead free HASL	Yes	Yes	108 USD
Immersion Tin	Yes	Yes	112 USD
Immersion Silver	Yes	Yes	114 USD
ENIG	Yes	Yes	125 USD
Hard Gold	Yes	Yes	1 <i>5</i> 0 USD
Soft Gold (Wire bond)	Yes	Yes	1 <i>5</i> 0 USD



Association Connecting Electronics Industries

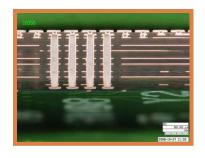


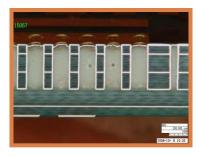


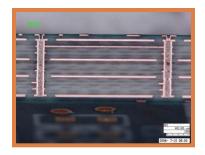
HDI via Capability

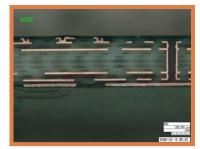
- Azitech can produce a broad range of microvias.
- For more information about microvias, please contact Azitech by phone or e-mail.

Via type	Min. via size	Min. pad size
Blind	0,05 mm.	0,24 mm.
Skipped	0,12/0,23 mm.	0,24 mm.
Staggered	0,12 mm.	0,24 mm.
Stacked	0,12 mm.	0,24 mm.
Via in pad	0,20 mm.	
Plugged (conductive or non-conductive)	0,20 mm.	













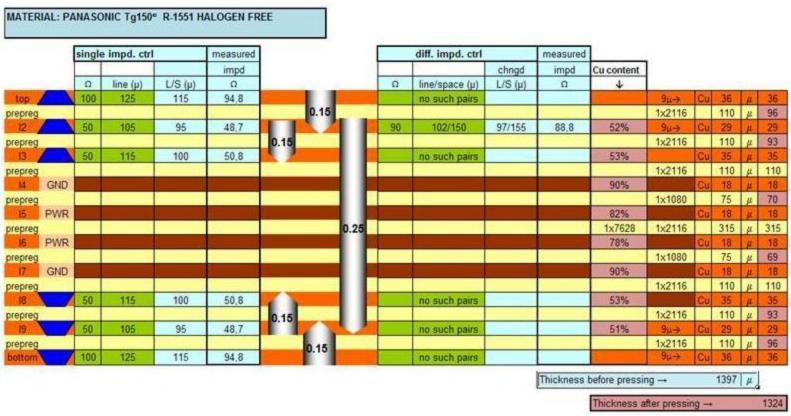
Due to the increasing demand of high density PCB's, Azitech cooperates with Axcon in order to secure the signal integrity.

If you are constructing a critical PCB and want to make sure it turns out as intentet, without any expensive delays, you should contact Azitech or Axcon during the design phase for guidance.



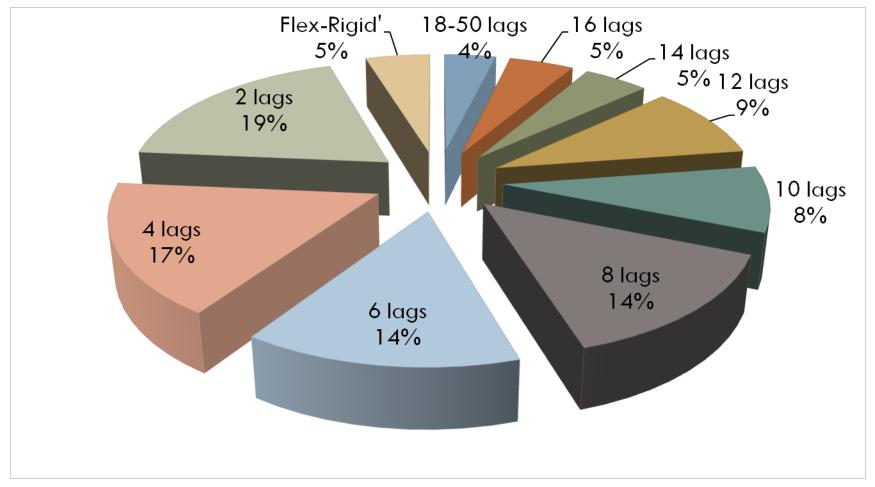
Build-up Suggestion

The below build-up is commonly used by Azitech's partners, in order to secure the construction of advanced PCB's.





Prudct Dispersion





Terms and conditions

- Insurance with ingredients coverage
 - Covers up to DKK. 1.000.000,-
- □ Credit insurance of invoices above DKK 25.000,-
- Delivery conditions: DDU and DDP
 - Other incoterms can be arrange (FOB, EXW etc.)
- □ Payment terms: 30 days NET or current month
 - T/T advance when using PCB-direct.dk

View sales & delivery terms



Contact Azitech



■ Morten Johansen, Sales engineer

■ E-mail: mi@azitech.dk

■ Telephone: +45 66 130 768

Skype: mj.azitech.dk

□ Robert Dam Ludvigsen, CEO & Owner

■ E-mail: <u>rl@azitech.dk</u>

Telephone: +45 66 130 768

Skype: rl.azitech.dk





- By cooperating with Azitech, you will gain access to a network of leading PCB manufactors around the world.
- Contact Azitech today and learn how you can become more effecient when purhasing PCB's.