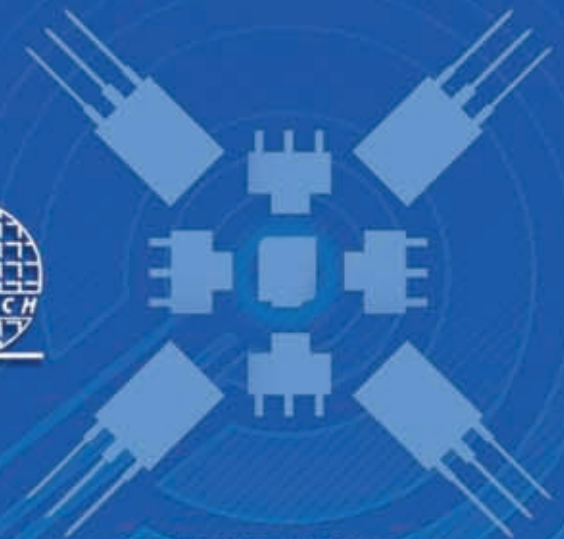




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PRODUCT CATALOGUE  
as of March 2008



For additional information, visit our website at  
<http://www.fastechsynergy.com>

Leading-edge Solutions for Niche Customers

## Assembly, Test, and Package Development Specialist

Established in 1983, Fastech Synergy Ltd is one of the leading providers of assembly and test services to the semiconductor integrated device manufacturers (IDM) in USA, Europe, and Asia.

It offers a broad range of services on turnkey contract manufacturing for semiconductor discrete components and integrated circuits, which support Pin-Through Hole (PTH) and Surface-Mounted Technologies (SMT).

Fastech provides:

- Assembly
- Test
- Package development
- Electronics modules (PCB's and hybrids)
- Precision machined parts (metals and plastics)

Over the years, the company has acquired competencies to cater to different niche product applications, which include:

- sensors for car body electronics
- energy efficient power semiconductor devices
- RF/ Microwave semiconductor devices

Fastech is a Singapore Exchange (SGX) listed company that maintains state-of-the-art production equipment and facilities in the Philippines in its manufacturing complex at the Light Industry and Science Park located in Cabuyao, Laguna.

## The Fastech Advantage

Fastech offers to its customers flexible manufacturing capabilities ranging from standard contract manufacturing model (build to print) to development activities (build to specs). It is also capable of running highly automated and specialized manual processes. With the company's "24/7" work schedule, it ensures fast turnaround time for its customers' products. Likewise, Fastech's ability to redeploy its production resources quickly assures a short time-to-market ramp for its customers.

Over the years, Fastech has built strong relationships with its customers worldwide, giving them a long-term sustainable competitive advantage. Fastech ensures complete customer satisfaction through responsive customer service. Its excellent customer service is supported by its highly professional and experienced account executives. Fastech has a dedicated team that works on a "24/7" schedule, hence, responding to customers' concerns and inquiries within 24 hours. To guarantee smooth flow of communication, Fastech's Customer Service Group also conducts regular teleconferences with customers abroad, mitigating geographical and time zone differences.

## Quality

The Fastech organization has dedicated itself to quality as a way of life. Quality is a responsibility of every Fastech employee. Total Quality Management (TQM) serves as the firm foundation upon which the company operates and continuously builds its business.

Fastech's product quality is guaranteed by its stringent implementation of the provisions of ISO/TS 16949:2002 and ISO9001:2000 Quality Management Systems. Apart from its conformance with international quality standards, Fastech is also a socially and environmentally responsible company that fully implements the RoHS Directive by manufacturing lead-free products and using "green" molding compounds in all its product packages.

## Manufacturing Arrangements

The company can work with a customer on consigned materials or complete turnkey basis. Various manufacturing arrangements are available to respond to a customer's operating needs and requirements:

- Standard Contract Manufacturing
- Captive-line Manufacturing
- Shelter Management
- Joint Venture

## Fastech Solutions

Out of capacity?

**Expand through Fastech**

Cost barriers?




















**Fastech features total lower cost of production**

Change of focus?

**Re-deploy other products to Fastech**

Package development requirements?

**Tap Fastech's technical experts**

PACKAGE	LEAD COUNT	DIE ATTACH	WIREBOND	BODY SIZE	PACKAGING
<b>PACKAGING AND TEST SMALL OUTLINE PACKAGES</b>					
 TSOT	5L 6L	epoxy eutectic	1.0-1.3 mils Au	2.9 x 1.6 x 0.9 mm	tape and reel bulk
 SOT23	3L 5L 6L	epoxy eutectic	1.0-1.3 mils Au	2.95 x 1.35 x 0.97 mm 2.9 x 1.6 x 1.15 mm 2.9 x 1.6 x 1.15 mm	tape and reel bulk
 SOT 89	3L	soft solder epoxy eutectic	1.0-1.3 mils Au	4.5 x 2.445 x 1.5 mm	tape and reel bulk
 SOT223	3L	soft solder epoxy eutectic	1.0-2.0 mils Au	6.50 x 3.50 x 1.60 mm	tape and reel tube/bulk
 SMB	2L	solder paste	copper clip	3.8 x 4.18 x 2.2 mm	bulk tape and reel
 SMC	2L	solder paste	copper clip	5.8 x 6.67 x 2.2 mm	bulk tape and reel
<b>LARGE OUTLINE PACKAGES</b>					
 TO92	3L	soft solder epoxy eutectic	1.0-2.0 mils Au	4.6 x 4.6 x 3.55 mm	tape and reel airmopack bulk
 TO251	3L 5L	soft solder epoxy	1.0-2.0 mils Au 5.0-20.0 mils Al	6.58 x 6.1 x 2.3 mm 6.58 x 6.1 x 2.3 mm	tube/bulk
 TO252	3L 5L	soft solder epoxy	1.0-2.0 mils Au 5.0-20.0 mils Al	6.58 x 6.1 x 2.3 mm 6.58 x 6.1 x 2.3 mm	tape and reel tube/bulk
 PLAD	1L	solder pre form	copper clip	12.7 x 12.7 x 3.3 mm	bulk tape and reel
 TO263	3L 5L	soft solder epoxy	1.0-2.0 mils Au 5.0-20.0 mils Al	10.236 x 8.763 x 4.572 mm 10.236 x 8.763 x 4.572 mm	tape and reel tube/bulk
 TO220	2L 3L	soft solder epoxy	1.0-2.0 mils Au 5.0-20.0 mils Al	10.18 x 8.817 x 4.45 mm 10.19 x 8.64 x 4.45 mm	tube/bulk
 TO220 (Clip) (Power Strap with or without ceramic)	2L 3L	solder paste solder paste	copper clip copper clip	10.19 x 8.64 x 4.45 mm 10.185 x 8.636 x 4.445 mm	tube/bulk
 TO202	3L	soft solder epoxy eutectic	5.0-20.0 mils Al	9.65 x 7.3 x 4.5 mm 9.65 x 7.3 x 4.5 mm	tube/bulk
 TO247	3L	soft solder	5.0-20.0 mils Al	15.9 x 20.955 x 5.029 mm	tube/bulk
 TO247MAX	3L	soft solder	5.0-20.0 mils Al	15.9 x 20.955 x 5.029 mm	tube/bulk
<b>INTEGRATED CIRCUITS</b>					
 SIP	8L 5L	epoxy	1.0-2.0 mils Au	3.88 x 9.9 x 1.447 mm 9.25 x 6.4 x 3.2 mm	tube tape and reel
 SOIC	8L/14L 16L/18L	epoxy	1.0-2.0 mils Au	3.9 x 4.899 x 1.36 mm 3.9 x 9.9 x 1.36 mm	tube
 Custom Clear & DIP Package	BPW34 Multi-pin package	epoxy	1.0-2.0 mils Au	3.85 x 4.4 x 1.15 mm	tube/bulk tube/bulk

## WAFER PLUS SERVICES



**WAFER BACKGROUND**  
• 5 inch up to 8 inch diameter grinding down to 7-mil final wafer thickness



**WAFER PROBE**  
• up to 6 inch diameter capability  
• parallel testing



**WAFER SORT**  
• up to 6 inch diameter capability  
• 2-bin capability  
• film frame output



**WAFER SAW**  
• single/double mesa construction  
• standard cut square/  
special cut hexagonal  
• flip saw process



**WAFER PLATE**  
• 10x to 100x inspection capability  
• waffle/vial pack