

# Fixtureless Testing Service (CM)



ITOCHU SYSTECH Singapore Pte Ltd

State of the art fixtureless testing facility is now yours with no capital investment. The easiest and most effective solution for outsourcing test.

Rapidly changing customer's needs

Global industry is changing rapidly. Large variation of consumer's demand require flexible high mix low volume production capability and extremely fast turn round time. Mobility product drives requirement of ultra fine pattern on the PCBs.

- **High mix low volume**  
Fixture cost increase
- **Fast turn round time**  
Delivery lead time of fixture
- **Fine pitch design**  
Physically impossible to prove by fixture

**ITOCHU CM Service !!**

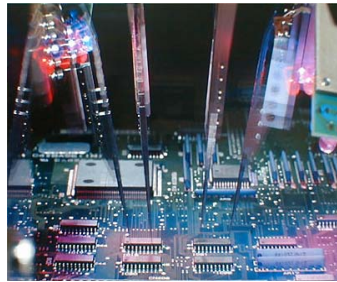
Increasing demand for Fixtureless tester

**However...**

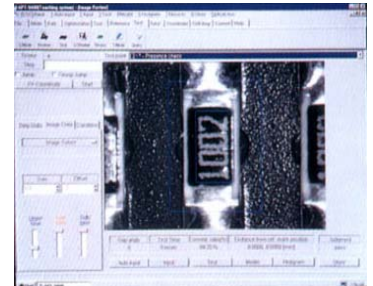
**Volume not justify to buy a machine..  
Can not increase asset investment...**

Importance and benefits of fixtureless testing

Equipping XY movable flying probe, fixtureless tester is the answer to the demanding market needs. It dramatically enhance new product introduction, high mix low volume and complex circuit testing. Slanted probe will make fine pitch probing possible.



High speed flexible probing



Optical vision inspection

Now, you can use this state of the art facility without capital investment

Immediate, easily and conveniently available, ITOCHU CM service is the solution to your fixtureless testing needs. Simply present your schematic, BOM and device drawing, our experienced engineers will create the program and test your boards.

**OUTSOURCE YOUR TESTING  
PROCESS NOW**



We offer measurement range coverage for .....

Low value resistance	40mΩ- 400Ω(at 4-wire kelvin method)
Resistors	0.4Ω to 40MΩ
Capacitors	4pF to 40mF
Inductors	4μH to 400H
Impedance	33Ω to 330KΩ
Diode / transistor junctions	0.1V to 2.5V(VF)
Zener diodes	0.4V to 40V
DC Voltage measurement	0.04V to 40V
AC Voltage measurement	0.04V to 25Vrms ( f = 2KHz or low frequency )
DC current measurement	0.1A to 1A (option)
Short/Open measurement	1.0Ω to 400Ω(programmable threshold level)
Transistors, FETs, Opto couplers	ON test
Relays	ON test
IC-lead in bus-circuits	IC Open test (utilization of sensor-probes for lifted leads)
Boundary Scan	- Optional -

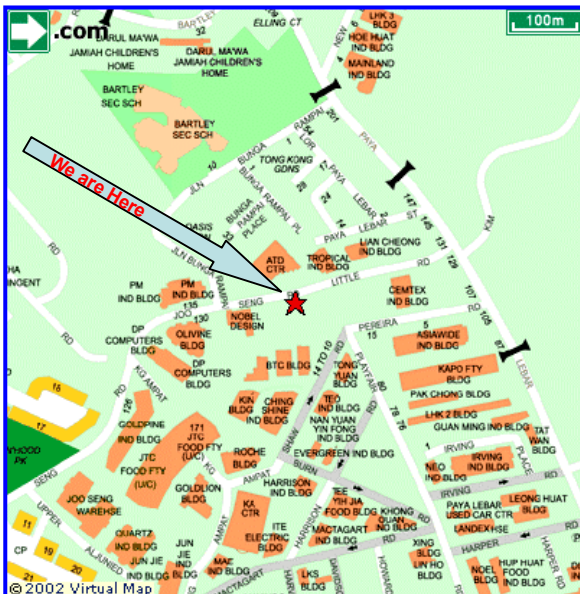


### Program and Test Service

Testing program will be created based on your schematic, BOM and device drawing. Operating at 24 hours round the clock, test program can be created within a day, and boards are tested while you are sleeping.

### Logistic Support

Your PCBs will be picked up at your factory and will be returned by logistic department.



### Contact us @

ITOCHU SYSTECH Singapore Pte Ltd.  
136 Joo Seng Road #03-01, Brilliant  
Building Singapore 368360

TEL : +65-63432-130 FAX : +65-6858-2345

Contact person: Texas Loh (mobile 97372377)

or email at : [texas.loh@system-itochu.com.sg](mailto:texas.loh@system-itochu.com.sg)