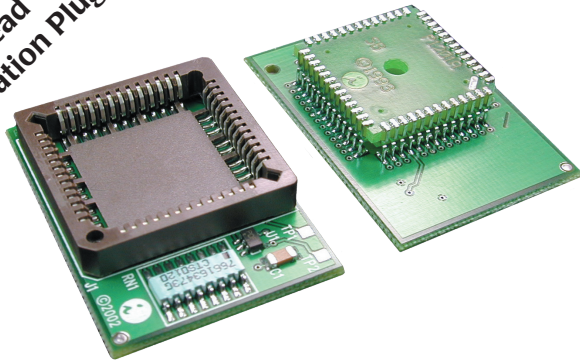


SMT Package Emulation

True J-Lead
PLCC Emulation Plug

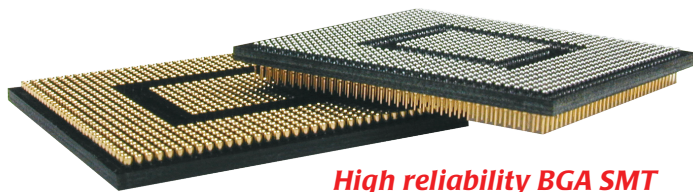


Ironwood has developed the industry's widest range of interconnection adaptors for SMT device emulation and interconnect.

Features:

- BGA, QFN, QFP, SO, PLCC Packages
- Solder to your SMT Lands
- Novel Interconnect Methods
- Pitch: 0.4-1.27mm
- GHz Bandwidth
- Detailed Soldering Instructions
- Gold Plated Pins

Over 1000 SMT package emulation adapters available.



**High reliability BGA SMT
Socket adapter**



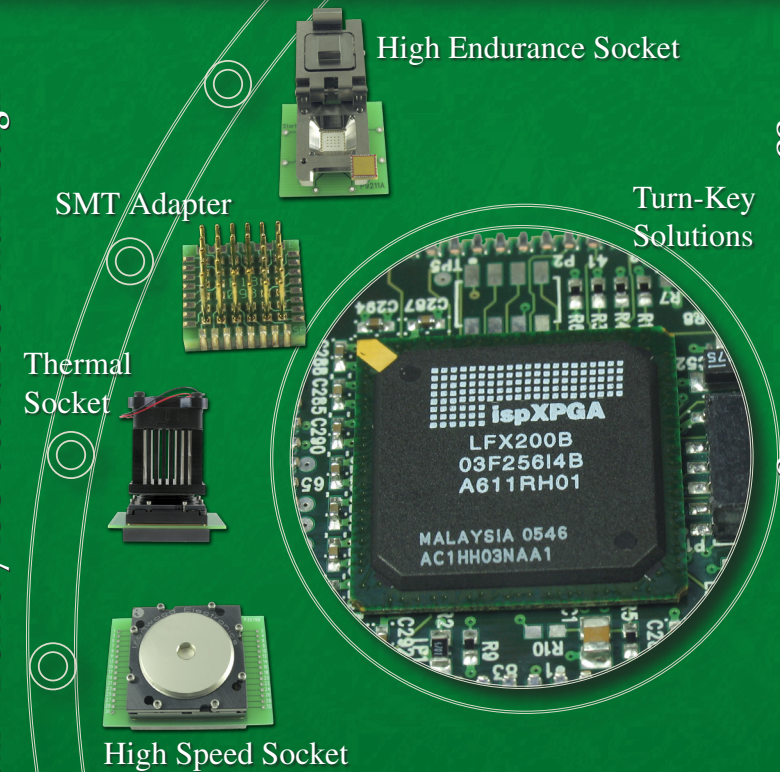
IC Product Life Cycle - Complete Test Solution PARTNER

Prototype Phase	Design Validation Phase	Application Development Phase	Production Phase
GHz Socket	Heat sink socket	Flex Extender	Burn-in Socket
Silver Particle Socket	Clamshell Socket	QFP Socket	Giga-snaP Socket
QFN Emulator	Flex Probe Socket	Package Converter	QFP SMT Foot
Quick Snap Socket	Silver Matrix Socket	Stamped Pin Socket	PSoC Adapter
Open Top Socket	Optical Chip Socket	PoP Socket	ATE Socket

Solutions for Engineering Lab & Production Line



Fast Delivery * Quick Turn Custom * Delivery ISO 9001:2008 with Design



Web Site

Our web site provides a full range of high performance socket and adapter solutions. Over 5000 products are listed, supporting:

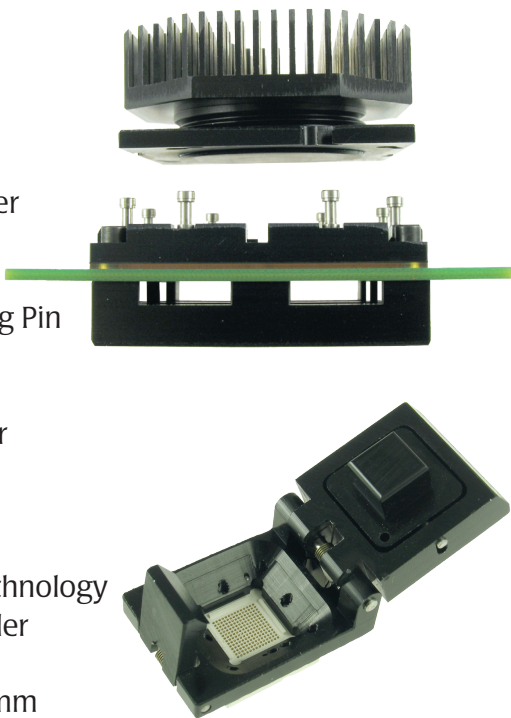
- GHz socketing
- Thermal Management Solutions
- SMT Package Emulation
- Package Conversion
- Probing & Prototyping Adapters

The web site gives an overview of the technology and detailed drawings of the product you need.

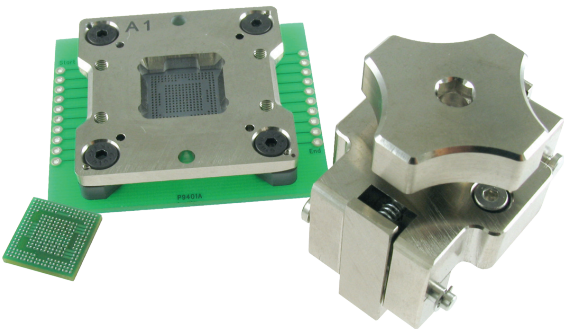
* Rugged * Patent Pending * Short Electrical Path * GHz Bandwidth Solutions

Covering your application with GHz bandwidth, affordable cost, and high endurance options.

- Gold wire Elastomer
 - 8-10 GHz
- Spring Pin
 - 500K insertions
 - 6-12 GHz
- Silver Particle Elastomer
 - 10K insertions
 - 40 GHz
- Stamped/Etched Spring Pin
 - 500K insertions
 - 20-34GHz
- Silver Matrix Elastomer
 - 500K insertions
 - 40 GHz
- Thermal Solutions
 - Direct Touch Technology
 - Controller & Chiller
- Capabilities
 - Pitch 0.25-1.27mm
 - BGA, QFN, etc.



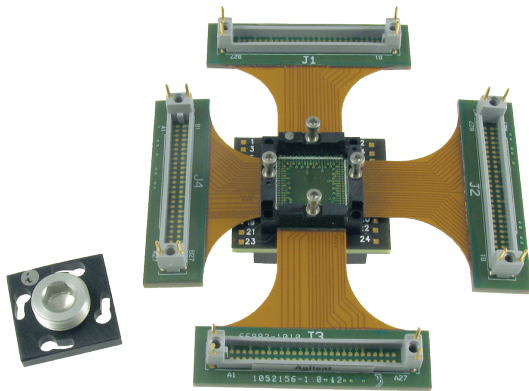
We also offer quick turn designs with custom heatsink, electrical simulation, and mechanical configuration.



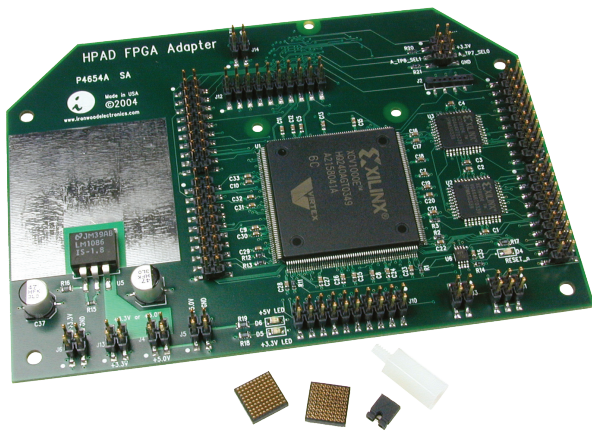
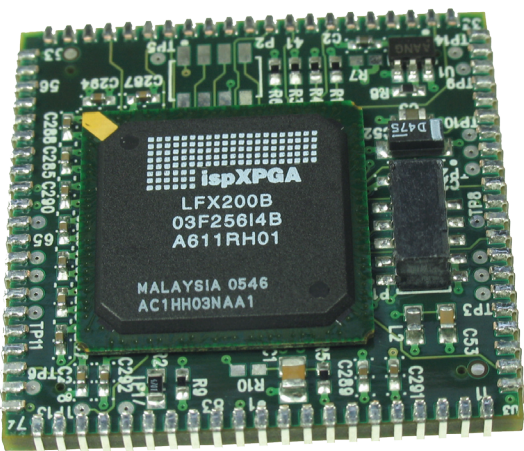
Solving both engineering and production needs, our adapters provide the capability to test and prototype in the laboratory as well as provide solutions that can provide IC package conversion that can keep a production line going when an IC becomes unavailable.

Prototyping Adapters, Probing Adapters, and IC Package Conversion Adapters are available in:

- BGA
- QFN
- SOIC
- QFP
- PLCC
- DIP
- etc.



Over 2500 adapters are available, and we have drawings for every device that can be quickly found on our web site.



Ironwood Electronics' capabilities extend to providing complex turnkey solutions for adapters, sockets, flex cable assemblies for the range of electronics markets from medical, consumer, laboratory, defense, and semiconductor.

Our design and manufacturing engineers integrate designs using state of the art design and production technologies.

