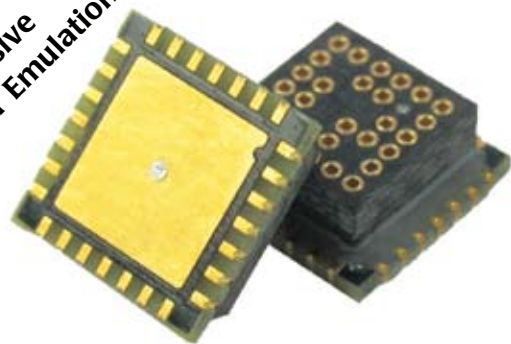


SMT Package Emulation

Exclusive QFN SMT Emulation

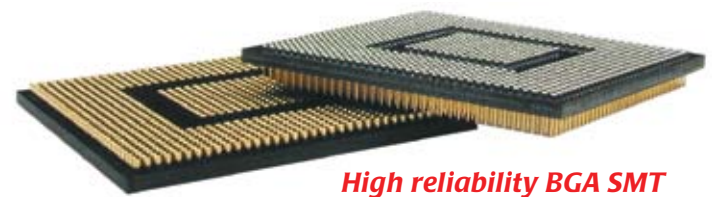


Ironwood has developed the industry's widest range of interconnection adaptors for SMT device emulation and interconnect.

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

Custom Design



Ironwood Electronics has a very experienced engineering staff of electrical and mechanical engineers. Quick turn custom solutions are our specialty, with some solutions available in 1 week.

Many of our innovative designs incorporate technologies such as:

- Controlled Impedance
- 0.5mm pin grid arrays
- Blind/Buried Vias
- 3 mil Line & Space
- Embedded Resistors
- Shaped Solder
- Flexible PCBs
- GHz Bandwidth Socket



Solutions for Engineering Lab & Production Line

High PERFORMANCE IC SOCKETS AND ADAPTERS

ELECTRONIC Module

HEAT-SINK SIMULATION

40 GHz BGA, LGA, QFN Socket

High ENDURANCE Socket

QFN SMT EMULATOR

GIGA-SNAP

IN-SOCKET PROBE

Short Form Catalog 21

Ironwood ELECTRONICS

ISO 9001:2000 CERTIFIED

Catalog

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

- GHz socketing
- SMT Package Emulation
- Package Conversion
- Probing Adapters
- Prototyping Adapters

The catalog gives an overview of the technology and also acts as a web guide so that you can quickly find detailed drawings of the product you need.

* Easily Solderable, Many Re-flows * Low Insertion Force * No Warp Epoxy Overlay

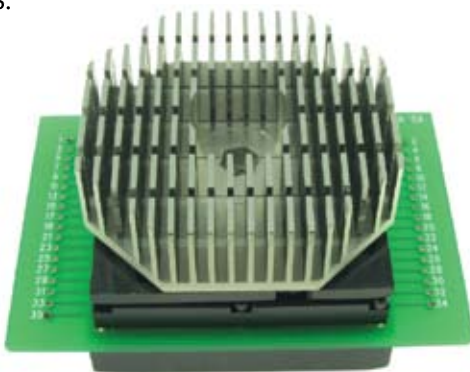
Fast Delivery * Quick Turn Custom

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

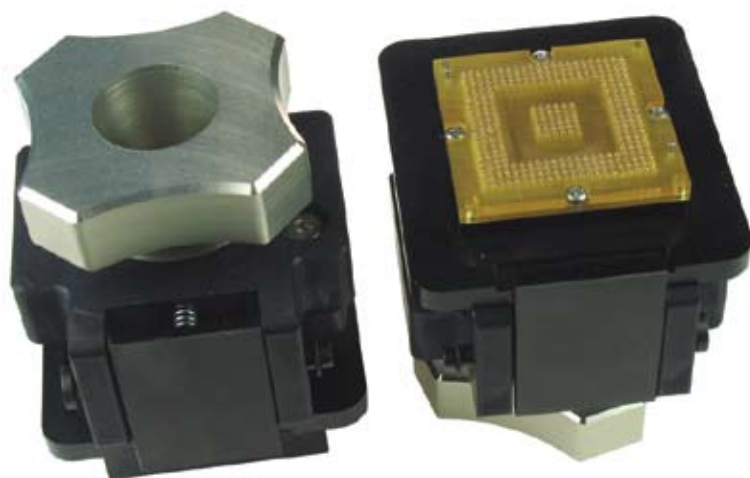


Covering your application with GHz bandwidth, affordable cost, and high endurance options.

- Elastomer - 6-20 GHz
 - Spring Pin
 - 500K insertions,
 - 6-12 GHz
- Diamond Particle
 - 100K insertion
 - 40 GHz
- Capped Elastomer
 - 10K insertions
 - 40 GHz
- Capabilities
 - Pitch 0.2-1.27mm
 - BGA, QFN, etc.



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

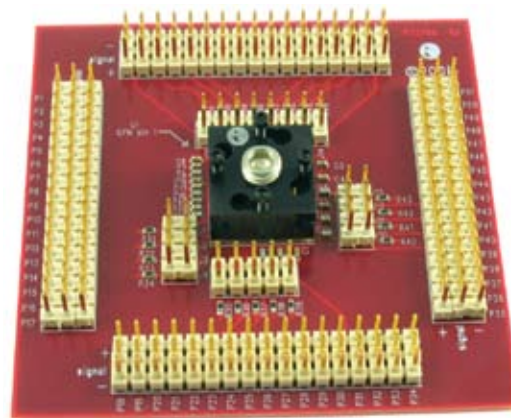
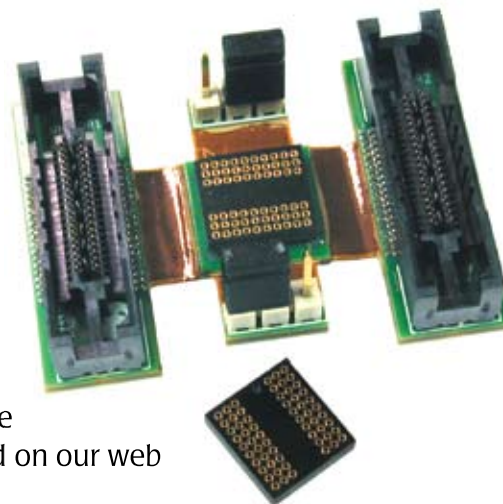


Solving both engineering and production needs, our adapters provide the capability to test and prototype in the laboratory as well as provide solutions that can provide IC package conversion that can keep a production line going when an IC becomes unavailable.

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.

