

High Insertion Count (HIC) Adapters

- Long life and high yield sockets
- Statistical monitoring



1-800-3-DATAIO
www.dataio.com



Featuring

- 4-site package specific adapters
- Parallel programming
- Status LEDs
- Easy replaceable sockets (2 screws)

Package Support

- CSP
- μ BGA
- BGA

Long Life

- Up to 250K actuations per socket
- Up to 1million actuations per adapter

High Yield

- Superior signal integrity

Statistical Monitoring

- Adapter insertion counts
- Passed device counts per socket
- Failed device counts per socket
- Socket yield performance

Socket Clean Counter

- Socket clean alerts
- Clean counter reset
- User configurable counter

Currently Ball Pitch Support

- .75mm, .80mm, 1.0mm

Socket Counter Reset

- Reset individual socket counts to zero

Contact Integrity

- Pre-alignment, centering
- Safety and careful contacting

TaskLink Software

- Analyze socket performance statistics

HIGH INSERTION COUNT ADAPTERS, ANOTHER INDUSTRY FIRST FROM DATA I/O, DELIVER THE LOWEST PROGRAMMING COST PER INSERTION AND HIGHEST PROGRAMMING YIELDS.

Designed to make device programming easy.

Data I/O has combined our long-life/high-yield programming sockets with statistical monitoring capabilities built right onto the adapter board. High Insertion Count Adapters support the principles of lean thinking by reducing non-value-added steps and costs associated with managing and tracking socket inventories.

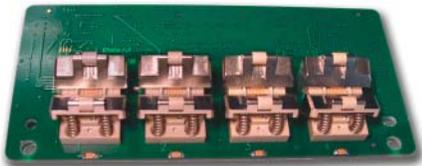
Highest Performance

High Insertion Count Adapters are designed for use in high volume production environments where continuous uptime and high programming yields are required to maximize production outputs. Contact pins made from the highest quality materials, deliver low noise programming signals for maximum cell charge. In addition, stainless steel/gold plated spring probe contact provides accurate repeatability for long insertion life.

Supporting Principles of Lean Thinking

A lean enterprise uses time and the relentless pursuit of waste elimination as competitive leverage. High Insertion Count Adapters make value flow from raw material through consumption using the least amount of resources, including time, people and materials. Efficiencies are gained through simplified socket inventory management, lower overall socket costs, reduced scrap costs, less rework, and optimized operator utilization. The end result is higher manufacturing profits.





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Platform Support

- ProLINE-RoadRunner
- PS200/300

Application

- Designed for device programming

Signal Transfer

- Spring contacts in SMT

Pin Configurations

- Currently available pin counts: 48, 56, 64 and 96pins
- Other pin counts available upon request

Pitch Configurations

- Currently Available pitches: 0.75mm, 0.8mm, 1.0mm
- Additional pitch configurations available upon request

Package Support

- CSP, μ BGA, BGA
- Variable body dimensions

Insulation resistance

- 100Milliohms or more at 500VDC

Dielectric withstanding voltage

- 500VAC for 1 minute

Alignment

- Floating base for precise device centering

Periodic Maintenance

- No socket cleaning procedure available at this time

Contact Specifications

Data is dependent on configuration and test methods

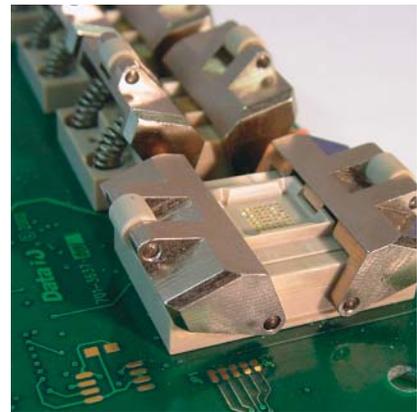
- Contact Resistance: 60-80 milliohms throughout 750,000 cycles in fixtured position
- Contact Capacitance: 1.04 pF
- Propagation Delay: 48 picoseconds
- Self Inductance: approximately 2.7nH
- Insertion Loss: <0.5dB to 3.5 GHz
- Cross Talk: < -10db up to 3GHz
- Rise Time: 87.6 picoseconds
- Contact Force: 8g initial, 30g at working position
- Operating Temp: Range: -50° C to +150° C
- Device Insertions: up to 250,000

Materials and Finish

- Plungers: Hardened BeCu / Gold Plated
- Barrel: Copper Alloy/Gold Plated
- Spring: Stainless Steel/Gold Plated

Socket Cycle Life (Mechanical)

- Up to 250,000 actuations



Data I/O Corporation: 10525 Willows Road NE, P.O. Box 97046, Redmond WA 98073-9746, USA
(425) 881-6444 · (800) 332-8246 · <http://www.dataio.com>

Data I/O GmbH: Lochhamer Schlag 5, 82166 Graefelfing, Germany · 089 858580 · <http://www.dataio.de>

Data I/O China: Room 1010, 10/F, MLC Millennia Plaza, 663 King's Road, North Point, Hong Kong · 852-2258-1533

Data I/O Japan: Saisho Building 7F, 8-1-14, Nishigotanda, Shinagawa-ku, Tokyo 141-0031, Japan · 03-3779-2151

Data I/O Canada: 6725 Airport Road, Suite 102, Mississauga, Ontario L4V 1V2 · (905) 678-0761

For more information on our distributors around the world, please visit our Web site at <http://www.dataio.com>