

High Insertion Count (HIC) Socket Adapters

- Long life and high yield sockets
- Statistical monitoring



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



Featuring

- Package-specific adapters
- Parallel programming
- Status LEDs
- Easy replaceable sockets (2 screws)

Package Support

CSP BGA CBGA CSP EBGA
FBGA LAP LFBGA LQFP
MCARD MICRO SD MINI SD
MLF MLP MMCARD QFN QFP
SCSP SO SSOP TBGA TQFP
TSOP UBGA VFBGA VTFBGA

Long Life

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

High Yield

- >99.8% first pass yield*

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

TaskLink Software

- Analyze socket performance statistics

* Actual yield results may vary due to system maintenance, device characteristics, operator set up or other variables

EXCLUSIVE FROM DATA I/O - HIGH INSERTION COUNT ADAPTERS 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 enable value flow from raw material through assembly 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.

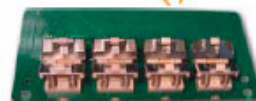
RoadRunner

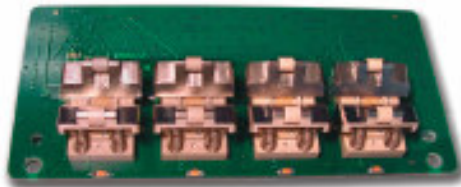


PS288/588



HIC





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Platform Support

- ProLINE-RoadRunner
- PS288/PS588

Application

- Designed for high volume device programming

Signal Transfer

- Spring pin contacts

Pitch Configurations

- Currently available pitches:
0.75mm, 0.8mm, 1.0mm

Package Support

- Variable body dimensions

Device Precising

- Floating base for device centering

Simple Changeover

- Change package types in minutes

Periodic Maintenance

- Socket cleaning frequency and practices documented in the programming system user manuals

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/socket
- **NEW** – now supports Pb-free devices

Materials and Finish

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

