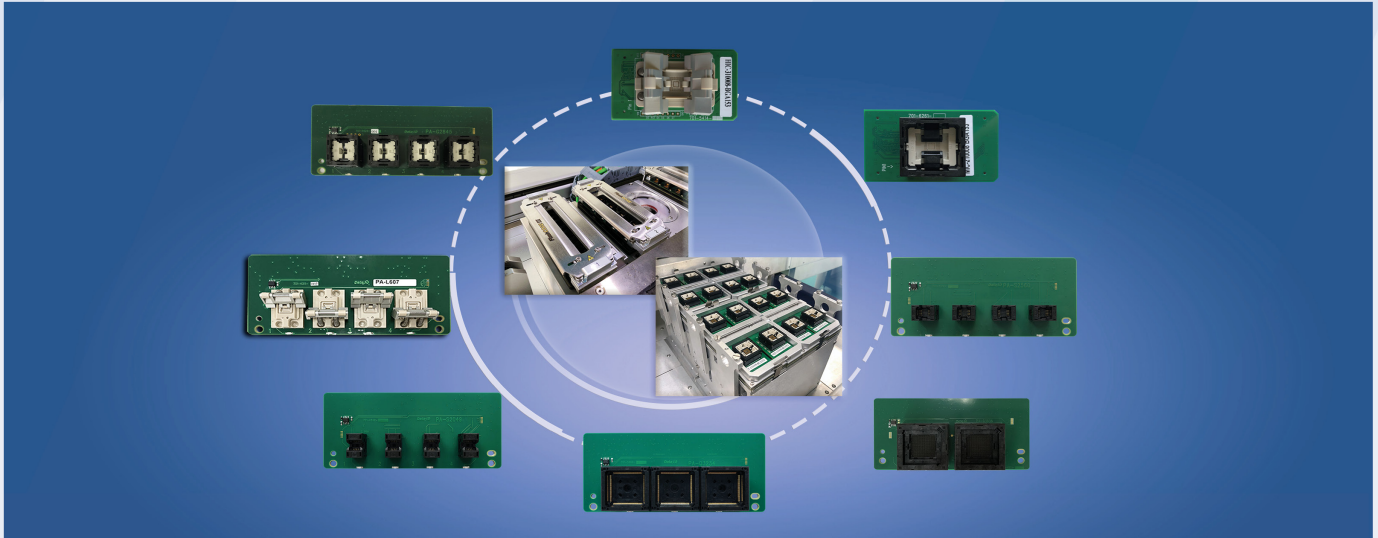


High quality socket adapter solutions  
to reduce cost and maximize your programming yield



### Standard Socket Adapters

- ✓ Ideal for low to medium volume applications
- ✓ Supports the widest variety of device packages and thickness
- ✓ Proven socket adapter solutions

### Medium Insertion Count (MIC) Socket Adapters

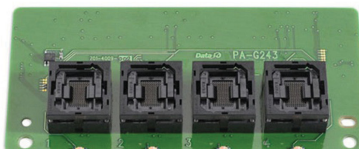
- ✓ Designed for medium to high volume applications
- ✓ Up to 50,000 insertions per socket
- ✓ Cost effective solution delivering high programming yields

### High Insertion Count (HIC) Socket Adapters

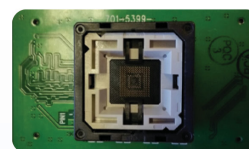
- ✓ Highest quality components for high-volume programming applications
- ✓ Proprietary adapter design with up to 250,000 insertions per socket
- ✓ Delivers the industry's lowest cost per programmed device at ~US\$0.01

## Standard Socket Adapter Features

- Typical life is 5,000~10,000 insertions per socket
- Supports BGA, CSP, SO, TSOP, QFN, USON, QFP, PLCC, DIP...
- FlashCORE III socket adapter capacity: up to 4 sockets per programmer
- LumenX socket adapter capacity: 1 socket per adapter and up to 8 adapters per programmer
- Status LEDs



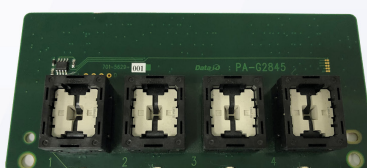
FlashCORE Standard Adapter



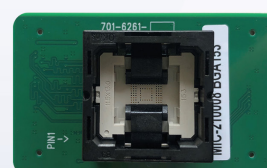
LumenX Standard Adapter

## Middle Insertion Count (MIC) Socket Adapter Features

- Typical life is 50,000 insertions per socket
- Supports BGA, CSP, SO, QFN, USON...
- FlashCORE III socket adapter capacity: up to 4 sockets per programmer
- LumenX socket adapter capacity: 1 socket per adapter and up to 8 adapters per programmer
- Status LEDs



FlashCORE MIC Adapter



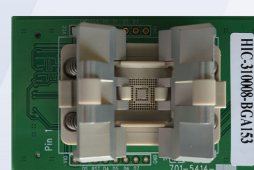
LumenX MIC Adapter

## High Insertion Count (HIC) Socket Adapter Features

- Typical life is 125,000~250,000 insertions per socket
- Typical yields are 99.8% and higher
- Supports BGA, CSP, WLCSP, SO, TSOP, QFN, USON, QFP ...
- FlashCORE III socket adapter capacity: up to 4 sockets per programmer
- LumenX socket adapter capacity: 1 socket per adapter and up to 8 adapters per programmer
- Status LEDs



FlashCORE HIC Adapter



LumenX HIC Adapter

| Socket Type                                   | Standard Burn In Socket                                                                                                                                                                                                                                                                                                  |                     | Medium Insertion Socket                       | High Insertion Socket                         |                     |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------|-----------------------------------------------|---------------------|
| Device Package                                | BGA,WLCSP                                                                                                                                                                                                                                                                                                                | QFP, TSOP, QFN, MLF | BGA, QFP, TSOP, MLF, WLCSP                    | BGA,WLCSP                                     | QFP, TSOP, QFN, MLF |
| Insertions Per Socket (Mechanical Life Cycle) | 5,000                                                                                                                                                                                                                                                                                                                    | 10,000              | 50,000                                        | 250,000                                       | 125,000             |
| Cost Per Device(US\$)                         | 0.04-0.08                                                                                                                                                                                                                                                                                                                |                     | ~0.025                                        | ~0.01                                         |                     |
| Programming Applications                      | Low to medium                                                                                                                                                                                                                                                                                                            |                     | Medium to high volume                         | High volume                                   |                     |
| Typical Yield                                 | 97%                                                                                                                                                                                                                                                                                                                      |                     | 98.5%                                         | 99.8%                                         |                     |
| Maintenance Need                              | High                                                                                                                                                                                                                                                                                                                     | Medium              | Low                                           | Very Low                                      |                     |
| Maintenance Process                           | Compressed Air                                                                                                                                                                                                                                                                                                           |                     | Cleaning with ProGold Wipes and Nanotek Brush | Cleaning with ProGold Wipes and Nanotek Brush |                     |
| Note                                          | 1) The performance characteristic of any socket in programming depends on a variety of factors including (but not limited to) solder alloy composites, tolerances, temperature, physical environment (dust) and cleanliness, and contact exposure time.<br>2) The mentioned cycles are indication for mechanical cycles. |                     |                                               |                                               |                     |

\*Standard adapter insertion count many vary depending on socket type. Please contact Data I/O for additional information

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