

## Highlights

- Always reliable and stable connections
- Perfect for extremely flat packages with high pin count (e.g. SQFP208)
- Easy fastening and removal using simple tools (provided)
- Minimal wear, extremely long adapter life
- Minimal space requirements around soldered CPU
- No modification of the target system necessary
- Contact elements exchangeable

# PressOn Adapter

## Technical Data

Current capacity per pin:  
100 mA, for an adapter's exact design and dimensions please refer to the technical data sheet.

Requirements on the target system:

- 2 mm free space around the CPU on the target board
- Prior to mounting, all pins must be correctly soldered and cleaned of all flux or other residue
- Sufficient vertical clearance for adapter and emulator probe above the CPU. See individual specifications.

Beside this there are no special requirements

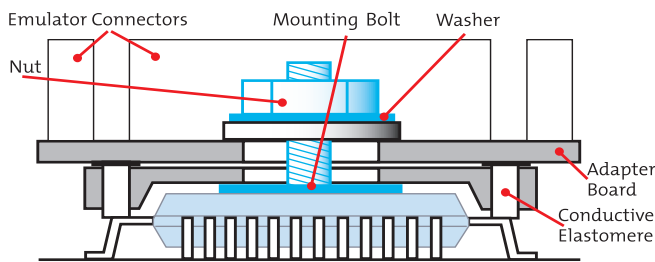
Contents of PressOn adapter set:

- PressOn adapter
- Mounting material (studs and nuts)
- Special adhesive
- Miniature socket wrench
- Installation guide
- Cleaning accessories

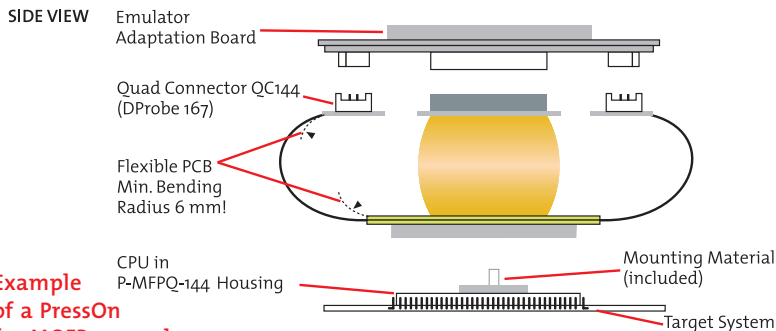
Supported package types:

- MQFP80 (Infineon C161, C164CI)
- MQFP100 (AMD Am186Ex, Infineon C166, C165)
- MQFP144 (Infineon C167)
- MQFP160 (AMD Am 186CC, Motorola 68376)
- PQFP100 (Am 186Ex, Infineon C163, C165)
- PQFP132 (Intel 386EX; Motorola 68332)
- SQFP208 (Intel SLE486)
- TQFP100 (AMD Am 186Ex, Infineon C165, C163)
- TQFP128 (Infineon C161SI/CI)
- TQFP144 (Motorola 68332)
- TQFP176 (Intel ULP486)

Hitex is continuously expanding the range of microcontrollers that are supported with PressOn adapters. Please inquire for specific availability. Hitex also manufactures custom adapters on request.



**Adaptation Principle**



**Example of a PressOn for MQFP144 package**

## Innovative Adaptation Technology for Emulators

Until now, there has been no satisfactory method for connecting test equipment to microprocessors and controllers in soldered-in QFP packages.

Traditional methods for connecting an emulator to a system under test require mechanical accommodation on the target system; these methods, however, are not always practical. To solve this problem, Hitex developed an innovative method for connecting to such CPU chips - the patented PressOn adapter.

The PressOn adapter provides a reliable electrical and mechanical connection to all pins of a soldered-in chip, even where inter-chip space is limited. PressOn technology utilizes two clever concepts.

- Elastic silicon strips carry a multitude of ultra-fine gold wires that make reliable electrical contact; and
- A small stud, temporarily bonded to the CPU package, provides a means for securing the gold-bearing elastomer strips.

The PressOn adapter conducts all signals reliably and with minimal degradation. It provides a uniform and stable connection to all pins. When traditional adaptation methods cannot be used, the PressOn adapter provides a foolproof connection. Even for ultra-flat packages that have a pin-pitch as small as 0.4-mm, or for PC boards right out of production, the PressOn adapter is the perfect choice.

Installation is simple. After thoroughly cleaning the CPU's pins, the user, using special adhesive, bonds the stud to the CPU. The adapter is then pressed onto the contacts with a small nut. Because it is easily removed from the chip after testing, this adapter can be used many times. The uniform pressure on every pin and the redundant gold wires assure maximum conductivity and many reliable connections for the life of the product.



### Main Office Germany

Greschbachstraße 12 Tel. +49-721-9628-0  
D-76229 Karlsruhe Fax +49-721-9628-149  
E-mail sales@hitex.de

Visit us on the internet! [www.hitex.com](http://www.hitex.com) or [www.hitex.de](http://www.hitex.de)

### Hitex USA

2062 Business Center Tel. 800-45-HITEX  
Drive, Suite 230 Tel. +1-949-863-0320  
Irvine, CA 92612 Fax +1-949-863-0331  
E-mail info@hitex.com

### Hitex UK

Warwick University Tel. +44-24-7669-2066  
Science Park Fax +44-24-7669-2131  
GB-Coventry CV4 7EZ E-mail info@hitex.co.uk

### Hitex Asia

25 International Tel. +65-6566-7919  
Business Park, #04-62A Fax +65-6563-7539  
German Centre E-mail  
Singapore 609916 sales@hitexasia.com.sg

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