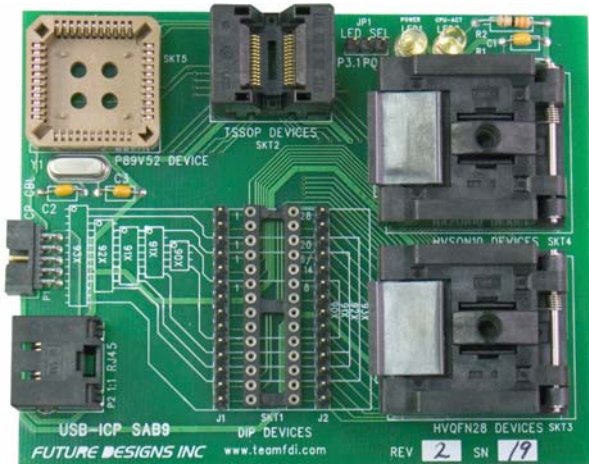


# SAB9



## **USB-ICP-SAB9**

## **Socket Adapter Board for USB-ICP-LPC9xx**

The USB-ICP-SAB9 Socket Adapter Board extends the capability of our popular USB In-Circuit Programmer for NXP Semiconductors LPC9xx devices to allow the user to program and test these devices outside of their application circuit. The SAB9 includes support for most NXP LPC9xx devices in the following packages: TSSOP, HVSON10, HQVFN28, and DIP8 – DIP28. A summary of supported devices is included on the back of this brochure and an updated list can be found on our website.

The SAB9 can also be used for prototyping with difficult to mount parts such as the HVSON10 and HQVFN28. All signals from every socket (except PLC44) are brought out to two 14-pin, 100 mil headers. This enables the user to load any supported microcontroller into a socket and connect it to their application with a few jumper wires or to easily construct bread board prototypes and connect them directly to the SAB9 as daughter cards.

Another feature of the SAB9 is support for the 5V P89V52xxA. Even though the P89V52xxA is part of NXP's standard 80C51 family, it is the first 80C51 variant that shares the same ICP programming interface as the LPC9xx.

## **Highlights**

- **USB-ICP-SAB9 REQUIRES** Future Designs' USB In-Circuit Programmer for NXP LPC9xx
  - FDI PN: USB-ICP-LPC9xx
- Plugs directly into USB-ICP-LPC9xx
- Program devices outside of the user's target board
- Program devices before prototype boards are available
- Prototype with fine pitch parts like HVSON10 & HQVFN28
- On board LED for testing

# Technical Details

SAB9 Supported Devices	
Device	Package
P89LPC93xFHN	HQVFN28
P89LPC92xFN	DIP
P89LPC93xFN	
P89LPC91xFDH	TSSOP
P89LPC92xFDH	
P89LPC93xFDH	
P89LPC9107FDH	
P89LPC9102FTK	HVSON10
P89LPC9103FTK	
P89V52xxA	PLCC44



USB-ICP-SAB9 shown with USB-ICP-LPC9xx  
(USB-ICP-LPC9xx Sold Separately)

## Ordering Information

Part Number: USB-ICP-SAB9  
Suggested Resale Price: \$169.00 (USD)  
Order Online Now at:  
[www.digikey.com](http://www.digikey.com)  
[www.mouser.com](http://www.mouser.com)

Warranty: 30-day money back guarantee  
Availability: Stock

(256) 883-1240 Phone  
(256) 883-1241 FAX  
E-mail: [sales@teamfdi.com](mailto:sales@teamfdi.com)  
[www.teamfdi.com](http://www.teamfdi.com)

Other USB-ICP Products	
Part Number	Supports
USB-ICP-LPC9xx	NXP LPC9xx
USB-ICP-80C51ISP	NXP P89C51 Flash
USB-ICP-LPC2K	NXP ARM7 LPC2xxx

All brand names and product names are trademarks or registered trademarks of their respective holders.

**FDI** *Future Designs, Inc.*  
Your Development Partner