



Michael Peshkin <michaelpeshkin@gmail.com>

Debug Express

1 message

Carol.Popovich@microchip.com <Carol.Popovich@microchip.com>

Tue, Jan 23, 2007 at 9:31 AM

To: michaelpeshkin@gmail.com

Michael,

I got more technical details on the Debug Express from Keith Curtis, an engineer who works on the development of this tool.

Let me know if I can be of further assistance. Let me know how your evaluation goes, too.

Ms. Carol Popovich
Microchip Technology Inc.
University Program
480-792-7938
email: carol.popovich@microchip.com

----- Forwarded by Carol Popovich/PIC-SDP Marketing/US/Microchip on 01/23/2007 08:29 AM -----

Keith Curtis

01/23/2007 08:22 AM

To: Carol Popovich/PIC-SDP Marketing/US/Microchip@Microchip

cc:

Subject: Re: Debug ExpressLink

Carol,

The Debug express allows 1 break point, single step, run/halt, and the ability to view and modify both the SFR memory and the data EEPROM. It also works with source level debug in a supported C compiler.

The Debug express supports the following parts

PIC12F683	8-pin with PWM/ADC/Timer0&1/Timer1Gate/voltage comparator/EEPROM
PIC16F684	14-pin with PWM/ADC/Timer0&1/Timer1Gate/dual comparator/EEPROM
PIC16F685, 687, 688, 690	20-pin family with MSSP+address masking/EUSART/ADC/Timer0-1&2/dual comparator/CCP/PWM+output steering/EEPROM
PIC16F883, 884, 886, 887	28/40-pin family with MSSP+address masking/EUSART/ADC/Timer0-1&2/1-2CCP/dual comparator/PWM+output steering/EEPROM
PIC16F913, 914, 916, 917, 946	28/40/64-pin family with SSP/AUSART/ADC/Timer0-1&2/1-2CCP/dual comparator/EEPROM/LCD

Note: The PIC12F683, PIC16F684, and PIC16F6XX parts require a ICD processor adaptor to do debugging through the Debug Express.

The PIC16F88X and PIC16F9XX have the ICD interface built into the chip.

Also: Older PICKit 2s require the addition of two pull down resistors (1.5K), one on the ICSPCLK and one on the ICSPDAT for debug operation. Other than this one

modification, older PICKit 2s can be upgraded to Debug Express by downloading the new firmware.

Not bad for a \$25 programmer/debugger.

There is a free, GNU C compiler at:

<http://sourceforge.net/projects/sdcc/>

that supports some of the parts and provides tools for building support files for unsupported parts.

and Hitech has a lite version at:

<http://www.htsoft.com/products/PICClite.php>

that supports some of the parts.

Regards,
Keith Curtis
Principal Applications Engineer
PICMicro Products; SMTD
Microchip Technology inc.

Carol Popovich

01/22/2007 02:37 PM

To: Keith Curtis/SMAD/US/Microchip@Microchip

cc:

Subject: Debug Express

Keith,

What can I tell this professor about the parts that work with the Debug Express?

Thanks,

Ms. Carol Popovich
Microchip Technology Inc.
University Program
480-792-7938
email: carol.popovich@microchip.com

----- Forwarded by Carol Popovich/PIC-SDP Marketing/US/Microchip on 01/22/2007 02:36 PM -----

"Michael Peshkin"

<michaelpeshkin@gmail.com>

01/22/2007 02:34 PM

Please respond to peshkin

To: "Carol.Popovich@microchip.com"

<Carol.Popovich@microchip.com>

cc:

Subject: Re: Northwestern University-Discount Coupon

Carol,

Thanks for your help. I've ordered the Debug Express to try out. Meanwhile, it would be very helpful to have a list of the "selected PIC microcontrollers" that it works with, and if available also the ones we can expect in the foreseeable future.

Thanks