

FW03-BCD2ASC: Routine For BCD to ASCII Conversion

Description

BCD2ASC is a routine we wrote to convert a BCD format number to its ASCII equivalent. It is useful for displaying BCD data into a user readable format for display on a LCD or for serial transmission.

What's Included

BCD2ASC.INC	The conversion routine
BIN2BCD.INC	Binary to BCD conversion routine
B2A_DEMO.ASM	Demo program
P16F84.INC	PIC16F84 definitions
BCD2ASC.PDF	This file

Operation/Usage

BCD2ASC takes a 0-9 input in the W register and adds it to the PCL and jumps to the appropriate RETLW command to return the ASCII code for the BCD input.

To use this routine, move a BCD format number into the W register and call **BCD2ASC**. The ASCII equivalent to the BCD input is outputted back into the W register.

Testing

B2A_DEMO.ASM is a program that demonstrates the **BCD2ASC** routine. It sets the W register to 08h (8d) then calls the **BCD2ASC** routine.

We simulated the program using MPLAB and watched the W register. Upon completion, the W register contained 38h (00111000b) which is the ASCII code for "8." It was also tested for other numbers with equal success.

Contact Us

We maintain a website where you can get information on our products, obtain literature, and download support files. Visit us online at:

www.dhmicro.com

Email your technical support questions to **support@dhmicro.com**. We try to respond to your questions within an hour if it is received Monday through Friday between the hours of 8am to 5pm (Mountain Time).

For sales questions or to place an order, direct your emails to **sales@dhmicro.com**. Refer to the order form and price list available on our website for product pricing, shipping rates, payment instructions, and for other info we need to complete your order.

Our mailing address:

DH MicroSystems, Inc.
P.O. Box 2272
Pocatello, ID 83206-2272

Disclaimer: DH MicroSystems, Inc. reserves the right to modify its products or literature, or to discontinue any product at any time without prior notice. The customer is responsible for determining the suitability of any device for any application developed using DH MicroSystems, Inc. components.

Copyright © 2003 DH MicroSystems, Inc.

All trademarks mentioned in this document are the property of their respective companies.