Zwickau University ‘c28x Development Board

This document outlines the ‘c28x adaptor board developed by Zwickau University

Description

The Zwickau University adptor board is designed to be used with the Spectrum Digital TMS320F2812 ‘eZdsp’ board. The peripheral expansion sockets on the eZdsp board can be fitted with header plugs which allow it to be connected to the Zwickau board. The adaptor includes the following features…

- 8x LED’s connected to GPIOB7..B0
- 8x DIP switches connected to GPIOB15..B8
- 2x momentary pushbuttons connected to GPIOD6 & D1
- Loudspeaker connected to T1PWM output
- 2x potentiometers allowing 0-3V to be applied to ADC channels A0 & B0
- CAN port: link selectable between high-speed (SN65HVD230D) and low speed (TJA1054A) transceivers, each with separate connector
- SCI-A port connected to RS232 transceiver and 9-pin ‘D’ socket
- SPI output connected to serial EEPROM (M95080) (Note : chip select GPIO-D5) and serial DAC (TLV5617A) (Note: chip select by GPIOD0 pin)
- I2C temperature sensor connected to GPIOG5 & G4 pins

The adaptor board was designed by Dr. Frank Bormann of the University of Zwickau. Boards can be obtained by

University of Applied Sciences Zwickau
Department of Electrical Engineering
Mr. Frank Bormann
Dr. – Friedrichs – Ring 2A
08056 Zwickau
Germany

The board is supplied with a description , a hardware configuration file and sample programs to test all parts of the peripherals. The cost per adaptor board will be 299 Euro.

DSK (eZdsp) Starter Kit Information

U.S. Part number: TMDX3P761128
European Part number: TMDX3P761128E
TI price: $305.00
Web link: TMS320F2812 eZdsp Kit (DSK)