

## **Easy dsPIC Development Kit – dsPIC 30F2010**



### **Product Features:**

- *Easy dsPIC Development Kit provides a head start to programming Microchip dsPIC 30F2010 – 28 Pin DSP Microcontroller.*
- *All the 16 Bit Controller functions of the dsPIC 30F2010 are used in this design.*
- *The dsPIC on board can be programmed directly from the MPLAB application with the Boot loader software provided.*
- *Peripheral interfaces like LED, LCD, 7 segment LED, Key switches are wired on the Board itself for easy programming and development. All pins are available externally as well by jumper selection.*
- *This Kit is supported with example programs in C language codes for easy understanding of the dsPIC architecture. MPLAB IDE, MICROCHIP PIC C30 - dsPIC C compiler Demo version software with dsPIC 30F2010 Data Sheet and programming instructions are provided in the CD-ROM.*
- *A Soft copy of the user manual is also included in the CD.*
- *Full working code examples in dsPIC C for interfacing dsPIC30F2010 with LED, Switch, Buzzer, Relay, 7 Segment LED, 16X2 LCD, on-chip 10 bit ADC, USART (RS232), I2C (24LC256) and SPI (MCP41050) devices are provided in the CD.*
- *This is a complete Easy to use Starter & Development Kit for Training, Experiments, Design and Development of products using the advanced DSP Microchip - dsPIC 30F2010 microcontroller.*

### **Contents of Easy dsPIC Development Kit-dsPIC 30F2010:**

*The product kit consists of the following:*

- *Easy dsPIC Starter Development Board*
- *DC Power supply*
- *RS232 cable*
- *Software CD with user manual & Codes*

### **Specifications:**

- ❖ *On Board Regulated Power supply 5V, 12V*
- ❖ *dsPIC 30F2010 microcontroller with Boot loader firmware*
- ❖ *Built in RS232 connector & Max 232 Interface*
- ❖ *16x2 Line LCD Display*
- ❖ *3x 7 Segment Display*
- ❖ *3x Key Switches*
- ❖ *1x Pot for Analog Input (10 Bit)*
- ❖ *6x Port B LED indications*
- ❖ *Boot Load / Reset Switch*
- ❖ *Jumper Selectable LCD/7SEG*
- ❖ *Jumper selectable KeySwitch/7SEG*
- ❖ *1x Digital pot MCP41050 with SPI interface*
- ❖ *1x External 256K Serial EEPROM - 24LC256*
- ❖ *2x External Analog Inputs (10 Bit on chip)*
- ❖ *6x External PWM Port*
- ❖ *1x External SPI Port*
- ❖ *1x External I2C Port*
- ❖ *1x Relay Output (C, No, NC outputs)*
- ❖ *1x Buzzer for Signaling*
- ❖ *Access to all Port pins external connections*
- ❖ *5V & 12V Power output for external circuits*

### **Manufactured & Marketed By:**



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