



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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TW-DIY-5134

The aim of this kit is to show how to use a 16x2 alphanumeric Liquid Crystal Display (LCD) with a PC. First we show how to connect it to the parallel port and echo and handle keyboard input. Then we show how to use the LCD to display temperature from a DS1620 Digital Thermometer/Thermostat chip and set the HI & LO triggerpoints in it. All C source code is provided.



[zoom photo](#)

Introduction to LCD's Kit - DIY

Learn how to connect a 2x16 LCD to a PC parallel port. First this kit will show you how to write keystrokes from the PC keyboard to display on the LCD. It will show you how to process this data (rotate the string left and right.) All the code is provided. Second, there is an on-board DS1620 to measure temperature. The temperature is displayed in F or C. Just press a button to display either. With the DS1620 you may set breakpoints to turn a thermostat on/off. We provide all the code to do this. Once the DS1620 is programmed it may be removed and placed in another device for temperature control. Many web references are provided.

- PARTS LIST - KIT 134

- Resistors (0.25W carbon)

- 10K.....R1-4 4

- 10K trimpot.....VR1..... 1

- Capacitors

- 100nF monoblocC3..... 1

- 10uF electrolytic...C2..... 1 25V

- 100uF electrolytic..C1..... 1 16V

- Semiconductors

- 1N4004.....D2..... 1

- 1N4148.....D1..... 1

- 78L05.....IC2 1

- +5V regulator, TO-92 package

- DS1620IC11

- Digital Thermometer and Thermostat Liquid Crystal Display..LCD 16 x 2, no b/l .. 1

- Miscellaneous 2.5mm DC jackX2..... 1

- PCB mounting D25 connector.....X1..... 1

- PCB mounting, right-angle, male 5-pin SIL header.....X3..... 1

- 8-pin IC socketfor IC1..... 1

- 14-pin SIL socketfor LCD..... 1

- 14-pin SIL header... ..for LCD..... 1

- Screw, 2.6mm x 18mm long2 Nut, 2.6mm . 6

- PCB, K134..... 1