### **▼ PREV**

# DLP DESIGNUSB Interface Products Products may be RoHS compliant.

Check mouser.com for RoHS status.



#### "Add USB to your next project--it's easier than you might think!"

DLP Design's USB Interface products provide a high-speed, hot-swappable, user-friendly connection between your electronic device and a host PC. The USB interface will provide up to 500mA at 5 volts of power for your electronics. These boards make the extremely complex USB Interface easy for just about anyone to start using, without requiring any in-depth prior knowledge

#### DUAL CHANNEL USB ADAPTERS

#### 626-DLP2232M-G

The DLP-2232M uses FTDI's FT2232C 3RD generation Dual Channel USB-FIFO/UART and offers a simple solution for interfacing ASIC/MCU/FPGA/DSP based designs to a host computer via USB. Each channel can be configured for either USB-UART or USB-FIFO via the on-board setup EEPROM. Rev 3 silicon from FTDI. No in-depth knowledge of USB required!

#### 626-DLP2232ML-G

Same functional design as the DLP-2232M, the DLP-2232ML is perfect for space constrained designs.

- Dual channel, each can be configured for USB-FIFO or USB-UART Up to 8 megabit per second data rate
   USB 1.1/2.0 Compatible

#### 626-DLP2232PB-G / 626-DLP2232PB-CCS

The DLP-2232PB uses FTDI's 3RD generation FT2232C USB IC and a PIC Microchip 16F877A to form a rapid prototyping development tool. On-board firmware uploader included - no device programmer required!

#### 626-DLP-USB232R

The DLP-USB232R is DLP Design's smallest USB-to-serial UART interface module, and it utilizes the popular FT232R IC with the FTDIChip-ID™ feature from FTDI. In addition to enabling standard USB-to-serial designs, both asynchronous and synchronous bit-bang interface modes are available

#### 626-DLP-USB1232H

The DLP-USB1232H is DLP Design's premier USB-to-UART/FIFO interface module based upon FTDl's fifth-generation USB 2.0 High Speed (480Mb/s) silicon. The DLP-USB1232H is available in a lead-free, RoHS-compliant, compact, 18-pin, 0.1-inch spaced standard DIP footprint.

# 626-DLP2232M-G









626-DLP-USB1232H

626-DLP-USB232R



#### **Embedded Modules**

For quantities of 250 and up, call for quote

MOUSER	DLP		Price	Each	
STOCK NO.	Part No.	1	10	50	100
626-DLP2232M-G	DLP-2232M-G				
626-DLP2232ML-G	DLP-2232ML-G				
626-DLP-2232PB-G	DLP-2232PB-G				
626-DLP-USB1232H	DLP-USB1232H				
626-DLP-USB232R	DLP-USB232R				

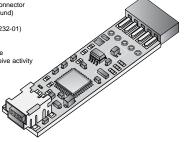
#### **USB TO SERIAL ADAPTER**

This USB-to-serial adapter is designed to easily connect a microcontroller/DSP/FPGA/etc to a host PC or upgrade a legacy RS232 device to USB with minimal design effort. Virtual Com Port (VCP) drivers are provided royalty-free that make the DLP-TXRX look like a standard Windows/Linux/Mac RS232 port to the users host program. An attractive quantity discount structure makes this module suitable for incorporation into low- and medium-volume finished products

#### Features:

- Connection to host PC/Mac made via mini USB connector
   As few as 2 wire serial interface (RX, TX and ground)
- Standard baud rates from 300 to 921,600 baud
- Support for non-standard baud rates (ApNote AN232-01)
   Open-collector output available for resetting
- microcontroller under software control (DTR)
  Input provided for user-selectable interface voltage
- Red and green LEDs to indicate transmit and receive activity





For quantities of 250 and up, call for quote

MOUSER	DLP	Price	Each
STOCK NO.	Part No.	1	100
626-DLP-TXRX-G	DLP-TXRX-G		

## **DLP-D USB BASED SECURITY DONGLE**

The DLP-D Security Dongle is pre-programmed with a unique identification number (Serial Number) that is readable over USB but cannot be altered by any means. Since each serial number is unique, this device provides a way of linking application software to a specific hardware dongle with a high level of security.

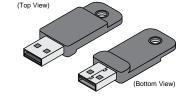
- Hard-coded, unique serial number
- USB 1.1 and 2.0 compatible interface
   Small size; easily fits on key chain
- · 3rd-Party support for application development

#### Applications:

- Access control
- Copy protection

**DLP-FLASH 2** 



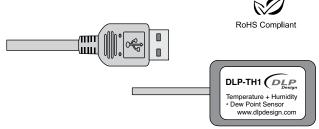


MOUSER STOCK NO.	DLP Part No.	Description	Price Each
626-DLP-D-G	DLP-D-G	USB Security Dongle	

MOUSER	DLP Part No.	Price	Price Each		
STOCK NO.	Part No.	1	100		
626-DLP-TXRX-G	DLP-TXRX-G				

#### **DLP-TH1 TEMPERATURE AND HUMIDITY SENSOR**

The DLP-TH1 is shipped with Windows 98/ME/2000/XP compatible software and USB drivers. Additionally, the most recent versions of the application software and USB drivers for the DLP-TH1 are available as a free download from www.dlpdesign.com/usb/th1.html



MOUSER	DLP	LP Description		Price Each		
STOCK NO. Part No.		Description		25	100	
626-DLP-TH1B	DLP-TH1-B	Temperature and Humidity Sensor				

This is a complete in-circuit debugging and programmable solution for Microchip's PIC16Fxx and PIC18Fxx PIC® MCU's. The device debugs all PIC16 and PIC16 targets that support debug mode and proides In-Circuit Serial Programming (ICSP) support for FLASH-based PIC microcontrollers. The DLP-FLASH2 is compatible with over 200 PIC MCUs and takes all its power from the host USB port so no external cables or power source is required. Compatible with the CCS PCW debugger or stand-alone ICD contol software.
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#### Features:

- Device Programmer In-circuit Debugger

- CCS C Compiler for 16F88 w/IDE (2K limit)
  Detachable Taget PCB featuring a PIC16F8 Microcontroller and LED
- More than 200 PIC devices are supported by the DLP-Flash 2

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	DLP Part No.	Description	Price Each
626-DLP-FLASH2	DLP-FLASH2	Pic Microcontroller Programmer Debuggers Device Prog/ Incirct Debugr W/ C Compiler	
626-DLP-UCF917	DLP-UCF917	Pic Microcontroller Programmer Debuggers Flash2 Target Board 16F917 W/lde 2K Ltd	
626-DLP-UCF4420	DLP-UCF4420	Pic Microcontroller Programmer Debuggers Flash2 Target Board 18F4420 W/lde 2K Ltd	
626-DLP-UCF2321	DLP-UCF2321	Pic Microcontroller Programmer Debuggers Flash2 Target Board 18F2321 W/lde 2K Ltd	

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