

DLP DESIGN USB Interface Products



This product is RoHS compliant.

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

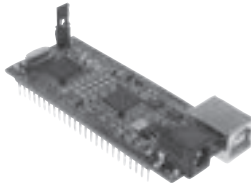
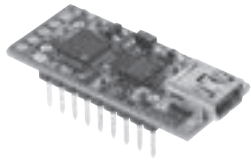
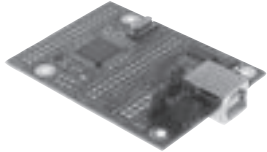
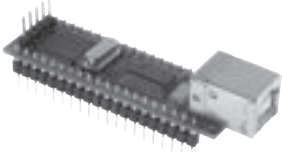
DLP Design's USB Interface products provide a high-speed, hot-swappable, user-friendly connection between your electronic device and a host PC. The USB interface will provide up to 500mA at 5 volts of power for your electronics. These boards make the extremely complex USB Interface easy for just about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



Embedded Modules

DLP Design

USB MICROCONTROLLER DEVELOPMENT BOARDS

<p>DLP-2232MSP</p> <p>PRODUCT NEW</p> <p>The DLP-2232MSP combines the same USB interface used in the DLP-2232H and the DLP-1232H modules with a Texas Instruments microcontroller to form a rapid development tool. The MSP430F2618 microcontroller is preprogrammed with basic functionality for accessing the port pins and can be reprogrammed with user firmware via a 10-pin header using a device programmer (purchased separately).</p> 	<p>DLP-232PC</p> <ul style="list-style-type: none"> • Single byte commands to all functions • Designed to fit into a standard 18 pin, 0.3-inch wide DIP footprint providing 14 I/O channels • PIC18F2410 Microcontroller can be reprogrammed with user firmware • Microcontroller communicates with host PC at up to 460,800 baud data rate • USB 1.1/2.0 Compatible • Rev 3 silicon from FTDI • No in-depth knowledge of USB required <p>Measuring in at only 1.375x0.6 inches, this new module is our lowest cost and smallest USB to Microcontroller module to date. The DLP-232PC uses single byte commands and FTDI's Virtual COM Port (VCP) drivers to provide an easy to use USB interface to a PIC 18F2410 microcontroller. Features include 14 I/O channels (8 can be used for analog inputs measuring 0-5 volts), a standard 0.3 inch wide DIP footprint and preprogrammed firmware for easy access to the I/Os and external digital temperature sensors (purchased separately).</p> 
<p>DLP-245PL-G</p> <ul style="list-style-type: none"> • Simple USB-FIFO interface to PIC Microchip 18F8722 microcontroller • 50 I/O pins (including A/D inputs) plus 8-bit data bus • Example source code provided for Token firmware feature • Up to 2 megabit per second data rate to host computer • USB 1.1/2.0 compatible • Rev 2 silicon from FTDI • No in-depth knowledge of USB required • RoHS Compliant <p>The DLP-245PL is a powerful integrated module based on the DLP-USB245M USB-FIFO adapter coupled with a PIC 18F8722 MPU and royalty free USB drivers. The 18F8722 microcontroller is preprogrammed with basic functionality for accessing the port pins and can be reprogrammed with user hex code via a 5-pin header that is compatible with Microchip's MPLAB ICD2 device programmer/debugger (purchased separately). Refer to the datasheet for full details.</p> 	<p>DLP-245PB-G</p> <ul style="list-style-type: none"> • Simple USB-FIFO interface to PIC Microchip 16F877A microcontroller • Plugs into a standard 40-pin, 0.6in wide DIP socket • Example source code provided for Token firmware feature • Up to 2 megabit per second data rate to host computer • USB 1.1/2.0 Compatible • Rev 2 silicon from FTDI • No in-depth knowledge of USB required <p>The DLP-245-PB-G is a powerful integrated module based on the DLP-USB245M USB-FIFO adapter coupled with a PIC 16F877 MPU and royalty free USB drivers. It plugs into a standard 40 pin 0.6in wide DIP socket and is ideal for rapid prototyping and development of USB / PIC based designs. Token I/O code pre-programmed into the 16F877's ROM for basic port pin input/output capability including access to the A/D, EEPROM, and external digital temperature sensors. The 16F877's Flash ROM can be easily erased and reprogrammed if required using the optional DLP-Flash Programmer. Refer to the datasheet for full details.</p> 

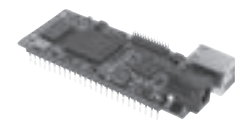
MOUSER STOCK NO.	DLP Part No.	Description	Price Each		
			1	25	100
626-DLP-2232MSP	DLP-2232MSP	DLP-2232MSP MSP430F2618 Microcontroller module	69.96	67.08	64.43
626-DLP-232PC	DLP-232PC	DLP-232PC USB to PIC18F2410 Microcontroller Module	29.95	29.00	28.75
626-DLP-245PL-G	DLP-245PL-G	DLP-245PL USB/Microcontroller PCB	65.00	62.50	59.15
626-DLP-245PL-G-CCS	DLP-245PL-G-CCS	DLP-245PLA-G Module and CCS Compiler	125.00	125.00	119.99
626-DLP-245PB-G	DLP-245PB-G	USB to PIC16F877A Microcontroller Module	40.00	37.11	36.40
626-DLP-245PB-G-CCS	DLP-245PB-G-CCS	DLP-245PB-G Board +CCS Compiler	100.00	100.00	98.50

For quantities greater than listed, call for quote.

FPGA MODULES

Features:

- Xilinx XC3S400A-4FTG256C FPGA
- Micron 32M x 8 DDR2 SDRAM Memory
- Built-In Configuration Loader; Writes the Bit File Directly to SPI Flash via High-Speed USB 2.0 Interface
- 63 User I/O Channels: 24 Differential Pairs and 8 Global Clocks
- 66 MHz Oscillator
- 133 MHz DDR2 Interface Reference Design Provided
- USB Port Powered or 5V External Power Barrel Jack
- USB 1.1 and 2.0 Compatible Interface
- Small Footprint: 3.0 x 1.2-Inch PCB and Standard 50-Pin, 0.9-Inch DIP Interface



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	DLP Part No.	Description	Price Each	
			1	5
626-DLP-HS-FPGA2	DLP-HS-FPGA2	FPGA Prototyping Module	179.97	167.96

DLP-D USB BASED SECURITY DONGLE

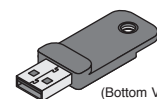
The DLP-D Security Dongle is pre-programmed with a unique identification number (Serial Number) that is readable over USB but cannot be altered by any means. Since each serial number is unique, this device provides a way of linking application software to a specific hardware dongle with a high level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

Features:

- 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:

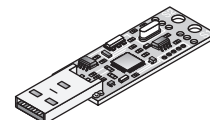
- Access control
- Copy protection



MOUSER STOCK NO.	DLP Part No.	Description	Price Each
626-DLP-D-G	DLP-D-G	USB Security Dongle	14.99

USB DATA ACQUISITION BOARDS

Schematics available on-line. USB 1.1 Compliant. The onboard PIC12F629 microcontroller can be reprogrammed with user code (requires programmer). Drivers and test applications can be downloaded from the website



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	DLP Part No.	Description	Price Each			
			1	10	50	100
626-DLP-TEMP-G	DLP-TEMP-G	2 - Channel	25.00	23.00	22.00	21.00
626-DLP-IO20	DLP-IO20	20 - Channel	49.95	49.05	48.50	47.25