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DLP DESIGN RFID and ZigBee™ Modules

Products may be RoHS compliant. Check mouser.com for RoHS status.



DLP-RFID1 RFID READER AND WRITER

The DLP-RFID1 is a low-cost, USB-powered module for reading from and writing to ISO 15693, ISO 18000-3, and Tag-it™ intelligent RFID transponder tags. It has the ability to both read and write up to 256 bytes of data in addition to reading the unique identifier (UID/SID). All of the DLP-RFID1's electronics and antenna reside within the compact unit, and all operational power is taken from the host PC via the USB interface. The range of the internal antenna is up to 4 inches depending upon the size of the tag being read.

Features:

- ISO 15693, 18000-3, Tag-it™ HF-I Compatible Read UID/SID of Up to 15 Tags Simultaneously
- 13.56MHz Reader/Writer
- Built-in Antenna: Up to 4-Inch Read Range
- FCC/IC/CE Modular Approval in Place Permanent Unique Serial Number Accessible Via USB Integrated Pass/Fail Beeper

- USB Port Powered from Host PC (USB 1.1/2.0 Compatible)
 USB Drivers Provided for Windows XP, XPx64, Server2003, 2000, 98, ME
- Software Development Library Support for Visual C++/Visual Basic

Design Applications:

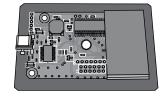
- Real-Time Securityv
 Personal Identification
- · Pharmaceutical Tracking
- Inventory/Asset Management & Tracking . Library/Book Management & Tracking
- Baggage Tagging
 Sports Event Timing

Specifications:

- Reader Frequency: 13.56MHz Output Power: 200mW MAX

- Range (Integral Antenna): 4 Inches MAX
 Tags/Protocols Supported: Tag-It*, ISO18000-3, ISO15693
 Communications Interface: USB 1.1/2.0 Compatible, Mini-B 5-Pin Connector
- Operational Power Active: 120mA Operational Power Idle: 15mA
- Antenna: On-Board Antenna, SMA Position Available**
- Attentia: Orl-board Artentia, Swin Position Available
 USB Driver Support: Windows XP, XPx64, Server2003, 2000, 98, ME
 Physical Dimensions OEM PCB: .20x2.17x3.12" typ. (5.1x55.1x79.3mm)
 Physical Dimensions Retail Enclosure: .83x2.3x3.25" typ. (21.1x58.4x82.6mm)
- Operating Temperature: 0-70°C





OEM Version

For quantities of 10 and up, call for quote

MOUSER	DLP	Description		Price Each	
STOCK NO.	Part No.			10	
626-DLP-RFID1-RG	DLP-RFID1-RG	Includes reader, retractable USB cable and an assortment of tags			
626-DLP-RFID1-OG	DLP-RFID1-OG	OEM Board Only		I	
626-DLP-RFIDTAG	DLP-RFIDTAG	10 Pack of RFID Peel and Stick Tags		I	
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DLP-RFID-LP8C 8-CHANNEL RFID READER/WRITER

The DLP-RFID-LP8C is a low-cost, USB-powered module for reading from and writing to ISO 15693, ISO 18000-3 and Tag-it™ intelligent RFID transponder tags via up to eight external antennas. It has the ability to both read and write up to 256 bytes of data in addition to reading the unique identifier (UID/SID). All of the DLP-RFID-LP8C's electronics reside on a single, compact PCB; and all operational power is taken from the host Windows/Windows CE/Linux PC via the USB interface. Up to eight external antennas can be connected via standard SMA connectors.

Features:

- ISO 15693, 18000-3, 14443, Tag-it™ HF-I Compatible Can read the UID/SID of up to 15 Tags Simultaneously
- 13.56MHz Reader/Writer
- 8 Channels for External Antenna Connections
 FCC/IC/CE Modular Approvals in Place
- USB Port Powered from Windows, CE or Linux PC
 Both USB and RS232 Interfaces Provided
- USB Interface; No Driver Development Required for Windows, CE or Linux PC
 Operating Temperatures: 0°C to 70°C
 Dimensions: (L x W x H) 4.36" x 3.32" x 0.6

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DLP-RFID-ANT

For quantities greater than listed, call for quote

DLP-RF2 (TTL Serial Interface)

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DLP-RF1-Z-G (Host Interface)

MOUSER	DLP	Description	
STOCK NO.	Part No.		
626-DLP-RFID-LP8C	DLP-RFID-LP8C	8-channel RFID reader	
626-DLP-RFID-ANT	DLP-RFID-ANT	Round Antenna w/Coax, with 15-foot cable	
626-DLP-FANT	DLP-FANT	Ferrite Antenna, DLP-COAX1 needed	
626-DLP-COAX1	DLP-COAX1	Coax w/RPSMA connector	
626-DLP-COAX1	DLP-COAX1	Coax w/RPSMA connector	

DLP 802.15.4/ZIGBEE™ READY MODULES

The DLP-RF1 and DLP-RF2 OEM Modules are short-range, low-power, 2.4GHz, unlicensed worldwide ISM band transceivers designed around the IEEE 802.15.4 Wireless Standard. Both support point-to-point and star network configuration using preprogrammed firmware

DLP-RF2 - 2.4 GHZ OEM RF Transceiver Module

The DLP-RF2 combines a Freescale™ MC13192 2.4GHz Direct-Sequence, Spread-Spectrum RF Transceiver IC and Freescale MC9S08GT60 microcontroller to form an IEEE 802.15.4 compliant, ZigBee n ready, short-range transceiver module. The DLP-RF2 connects to user electronics via a standard, 20-pin male header.

The MC9S08GT60 microcontroller is preprogrammed with DLP Design's Serial Interface Packet Processor (SIPP™ firmware) for accessing the transceiver functions via simple serial calls. Interface to an external serial host microcontroller/DSP/FPGA, etc. is accomplished via a simple 2-wire (RX, TX, and ground) interface.



For quantities of 500 and up, call for quote

MOUSER STOCK NO.	DLP Part No.	Price Each			
		1	10	100	250
626-DLP-RF2-Z-G	DLP-RF2-Z-G				

DLP-RF1 - 2.4 GHZ OEM RF USB Transceiver Module With USB Interface

The DLP-RF1 combines a USB interface, Freescale™ MC13192 2.4GHz Direct-Sequence Spread Spectrum RF Transceiver IC and Freescale MC9S08GT60 microcontroller to form an IEEE 802.15.4 compliant, ZigBee™ ready, short-range transceiver module.

The MC9S08GT60 microcontroller is preprogrammed with DLP Design's Serial Interface Packet Processor (SIPP™ firmware) for accessing the transceiver functions via simple serial calls. The application programming required for accessing the module via USB is functionally identical to that used to access the RS232C ports on a standard WindowsLinux/Mac PC via the use of royalty-free Virtual COM Port (VCP) drivers. (No USB driver development is required for most applications.) The SIPP firmware in the DLP-RF1 resides at the application layer and is based on Freescale's SMAC. The SIPP firmware provides basic access to DLP-RF1 functionality: packet receive and transmit, transceiver settings, EEPROM access, etc.



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MOUSER	DLP Part No.	Description	Price Each		
STOCK NO.			1	10	25
626-DLP-RF1-Z-G	DLP-RF1-Z-G	DLP-RF1-Z-G USB Transceiver Module for Computer Control Functions			
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