

# DLP DESIGN RFID and ZigBee™ Modules



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## DLP-RFID1 RFID READER AND WRITER

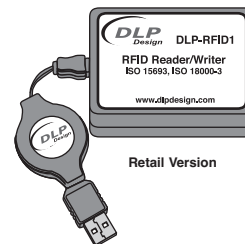
The DLP-RFID1 is a low-cost, USB-powered module for reading from and writing to ISO 15693, ISO 18000-3, and Tag-it™ intelligent RFID transponder tags. It has the ability to both read and write up to 256 bytes of data in addition to reading the unique identifier (UID/SID). All of the DLP-RFID1's electronics 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:

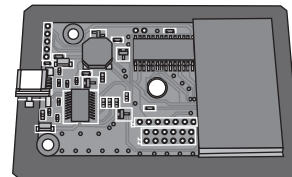
- ISO 15693, 18000-3, Tag-it™ HF-1 Compatible
- Read UID/SID of Up to 15 Tags Simultaneously
- 13.56MHz Reader/Writer
- Built-in Antenna: Up to 4-Inch Read Range
- FCC/IC/CE Modular Approval in Place
- Permanent Unique Serial Number Accessible Via USB
- Integrated Pass/Fail Beeper
- USB Port Powered 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

### 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\*\*
- 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



Retail Version



OEM Version

For quantities of 10 and up, call for quote.

MOUSER STOCK NO.	DLP Part No.	Description	Price Each	
			1	10
626-DLP-RFID1-RG	DLP-RFID1-RG	Includes reader, retractable USB cable and an assortment of tags	119.95	117.00
626-DLP-RFID1-OG	DLP-RFID1-OG	OEM Board Only	94.50	89.50
626-DLP-RFIDTAG	DLP-RFIDTAG	10 Pack of RFID Peel and Stick Tags	29.50	27.50

## 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-1 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



DLP-RFID-LP8C



DLP-RFID-ANT

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	DLP Part No.	Description	Price Each
626-DLP-RFID-LP8C	DLP-RFID-LP8C	8-channel RFID reader	199.95
626-DLP-RFID-ANT	DLP-RFID-ANT	Round Antenna w/Coax, with 15-foot cable	39.95
626-DLP-FANT	DLP-FANT	Ferrite Antenna, DLP-COAX1 needed	19.95
626-DLP-COAX1	DLP-COAX1	Coax w/RPSMA connector	16.95

## 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™ 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.

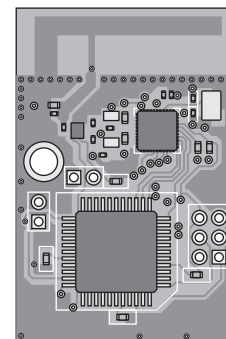


RoHS Compliant

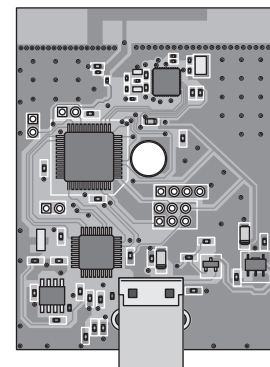
For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	DLP Part No.	Price Each			
		1	10	100	250
626-DLP-RF2-Z-G	DLP-RF2-Z-G	35.00	32.00	27.00	25.00

DLP-RF2 (TTL Serial Interface)



DLP-RF1-Z-G (Host Interface)



### 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 Windows/Linux/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.



RoHS Compliant

For quantities of 50 and up, call for quote.

MOUSER STOCK NO.	DLP Part No.	Description	Price Each		
			1	10	25
626-DLP-RF1-Z-G	DLP-RF1-Z-G	DLP-RF1-Z-G USB Transceiver Module for Computer Control Functions	54.99	54.00	52.50