



DLP-RFID2



FEATURES:

- ISO 15693, 18000-3, Tag-it™ HF-I Compatible
- Read the UID/SID of Up To 15 Tags Simultaneously
- 13.56MHz Reader/Writer
- U.FL external antenna connector
- On-board internal antenna
- FCC/IC Modular Approvals Pending
- Powered by 3.0 to 5.0 Volt Supply
- TTL Serial Interface at 115200 baud
- Operating Temperatures: 0°C to 70°C
- Dimensions: (L x W x H) 1.65" x 0.735" x 0.17"

APPLICATIONS:

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

1.0 INTRODUCTION

The DLP-RFID2 is a low-cost, compact module for reading from and writing to ISO 15693, ISO 18000-3, and Tag-it™ intelligent RFID transponder tags via an internal or an external antenna. 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-RFID2's electronics reside on a single compact PCB, and all operational power is taken from a single 3.0 to 5.0 volt supply. An external antenna can be connected via standard u.fl connector.

2.0 APPLICATION DEVELOPMENT

Demonstration "C" source code is available (upon purchase) that demonstrates the communications protocol as developed for a microcontroller.

3.0 REGULATORY AGENCY CONSIDERATIONS

3.1 AGENCY IDENTIFICATION NUMBERS

Compliance with the appropriate regulatory agencies is essential in the deployment of all transceiver devices. DLP Design is in the process of obtaining modular approval for this RF product such that an OEM need only meet a few basic requirements in order to utilize their end product under this approval. Corresponding agency identification numbers are listed below:

<u>Part Number</u>	<u>US/FCC</u>	<u>CAN/IC</u>
DLP-RFID2	SX9RFID2	5675A-RFID2

3.2 EXTERNAL ANTENNAS

The DLP-RFID2 is approved for use with an external antenna.

3.3 FCC/IC REQUIREMENTS FOR MODULAR APPROVAL

Any changes or modifications to the DLP-RFID2's printed circuit board could void the user's authority to operate the equipment. Operation of an unapproved antenna could void the user's authority to operate the equipment.

3.4 WARNINGS

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesirable operation.

This device is intended for use under the following conditions:

1. The transmitter module may not be co-located with any other transmitter or antenna.
2. The module is approved using the FCC "unlicensed modular transmitter approval" method.

As long as these two conditions are met, further transmitter testing will not be required. However, the OEM integrator is still responsible for testing their end product for any additional compliance measures necessitated by the installation of this module (i.e. digital device emissions, PC peripheral requirements, etc.).

Note: In the event that these conditions cannot be met (i.e. co-location with another transmitter), then the FCC authorization is no longer valid and the corresponding FCC ID may *not* be used on the final product. Under these circumstances, the OEM integrator will be

responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

3.5 OEM PRODUCT LABELING

The final end product must be labeled in a visible area with the following text:

“Contains TX FCC ID: SX9RFID2”

3.6 RF EXPOSURE

In order to comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

3.7 ADDITIONAL INFORMATION FOR OEM INTEGRATORS

The end user should NOT be provided with any instructions on how to remove or install the DLP-RFID2.

4.0 DISCLAIMER

Neither the whole nor any part of the information contained herein nor the product described in this datasheet may be adapted or reproduced in any material or electronic form without the prior written consent of the copyright holder.

This product and its documentation are supplied on an as-is basis, and no warranty as to their suitability for any particular purpose is either made or implied. DLP Design will not accept any claim for damages whatsoever arising as a result of use or failure of this product. Your statutory rights are not affected.

This product or any variant of it is not intended for use in any medical appliance, device, or system in which the failure of the product might reasonably be expected to result in personal injury.

This document provides preliminary information that may be subject to change without notice.

5.0 CONTACT INFORMATION

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