

DLP-D

USB-BASED SECURITY DONGLE

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 App Development

Applications:

- Access Control
- Copy Protection

3rd-Party Software Developer's Kit
Available From:



- Attach Software to an Individual
- Attach Software to a PC
- Do Periodic Check for Dongle

Refer to Section 5 for More Details...

1.0 INTRODUCTION

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.

2.0 USING THE DLP-D

The serial number in the DLP-D Dongle is readable over USB, but it cannot be modified. To read the serial number, USB drivers need to be installed on the PC.

In addition to utilizing the DLP-D Dongle to directly tie hardware to application software, the serial number can be encrypted and then stored in the "User Area" of the DLP-D. The data stored in the integrated EEPROM User Area can contain information in addition to the serial number such as date

and time information or the name of the person the device is registered to. The EEPROM User Area is accessible using the USB driver's EEPROM User Area functions: FT_EE_UASize, FT_EE_UAWrite, and FT_EE_UARead.

For example, the serial number can be read and combined with date and time data, perhaps to represent a registration or license expiration date. All of this information can then be encrypted and stored within the EEPROM User Area. Application software can then decrypt this information to determine the date stored in the EEPROM and can compare the decrypted serial number with the unchangeable serial number to confirm that an end user has not modified the EEPROM User Area.

3.0 EEPROM USER AREA SIZE

The integrated EEPROM is 1024 bits (128 bytes) in size. The length of the serial number and description strings programmed into the EEPROM determine the amount of the EEPROM User Area available for use by user application software. If these strings are long, there may not be enough User Area available in which to store the encrypted data required. (The USB driver function FT_EE_UASize returns the size of the User Area in bytes and can be used to determine if the required space is available before attempting to write data to the EEPROM.)

A remaining User Area of 40 bytes is typical for the DLP-D as shipped from DLP Design.

4.0 DEMONSTRATION SOFTWARE

Demonstration software written in both Visual C++ and Visual Basic are available for free download with purchase of the DLP-D Dongle. They demonstrate how to read the serial number, read from and write to the User Area, and determine the User Area's size.

5.0 3RD-PARTY DEVELOPMENT KIT FROM TIMELINES INDUSTRIES

DLP Design is pleased to announce the availability of the Software Guardian line of Toolkits from Timelines industries. With Software Guardian, a developer can:

- Attach software to a specific individual
- Attach software to a specific PC
- Validate user identity without a network or internet connection*
- Attach software to a LAN, WAN, or corporate network*
- Detect software tampering*
- Determine software features by user USB dongle*
- Perform software usage metering*
- Enforce periodic software renewals*
- Reactivate expired software licenses*

*Available in the Professional Toolkit only.

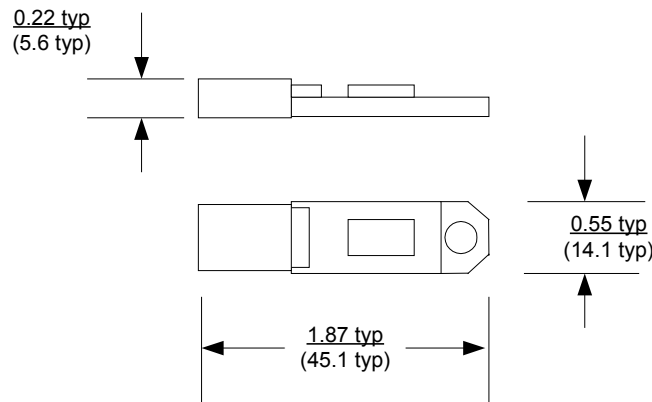
With Software Guardian, you can do all this and more. Software Guardian contains a library of functions that can be used with any Windows-based software language that can import ActiveX controls.

The first time your software is executed, simply call the Initialize function to attach the software to a chosen entity. Afterwards, a call to the Validate function when the program starts will determine whether the machine or user is authorized to use the software and the active feature set selected.

If the DLP-D Security Dongle has been tampered with, a message will be displayed to the user, and you can choose whether to exit the software, call for support, etc. If the user wishes to remove the software, a single call to the Wipe function will remove licensing and (optionally) reformat the USB device so that the software can be moved to a different location...all without a support call or any network or Internet connection required.

For additional information on Software Guardian products, availability, distributors, and pricing, please visit us at www.time-lines.com/swguardian or at www.dlpdesign.com.

6.0 MECHANICAL DIMENSIONS IN INCHES (MM): PRELIMINARY



7.0 DISCLAIMER

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

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