

Authentication Library

Overview

This software is an authentication library developed exclusively for TLCS-870/C series. It can perform, without using any dedicated hardware, an infinitely safer authentication by embedding this library.

Features

- ◆ The software size is compact.
- ◆ Program to use and key length are selectable according to cipher strength.
- ◆ It ensures a high safety, adopting the challenge-response system.
- ◆ The process time of cryptography is one sixth of that of old cryptographic technology (for the key length of 96 bits, a regular version).

Specifications

- ◆ Cipher Algorithm Secret key cryptography (Toshiba proprietary)
- ◆ Authentication System Challenge-response authentication (ISO/IEC 9798-2 compliance)
- ◆ Key Length 96, 192 bits (regular version)/128, 256 bits (sophisticated version)

Operating Conditions

- ◆ Target MCU TLCS-870/C series
- ◆ Resource Consumption ROM 1.1 Kbytes / RAM 30 bytes (regular version)
ROM 2.3 Kbytes / RAM 55 bytes (sophisticated version)

Resource consumption may differ according to use conditions.

Package Contents

Object code, software manual

Application Products

Keyless entry system, immobilizers, authentication of a main unit and accessories, entrance and exit keys

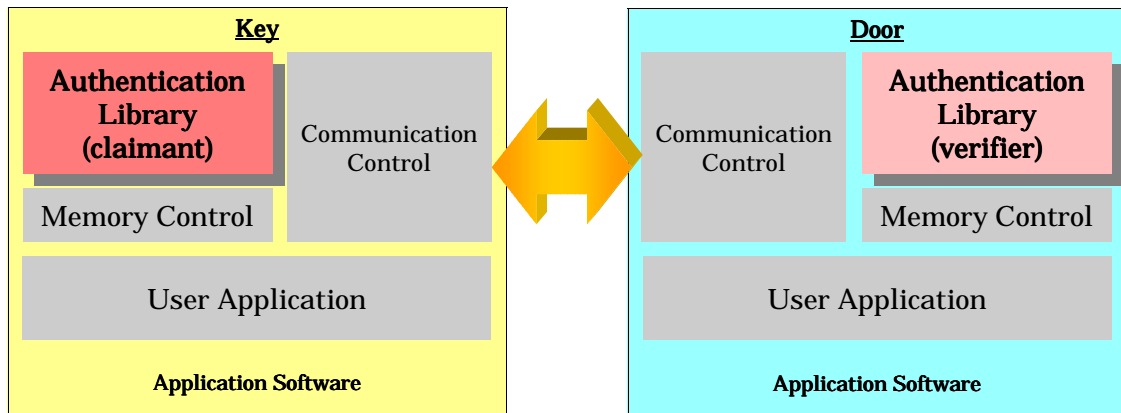
Recommended MCUs

all the TLCS-870/C series

*For details, please contact your local Toshiba office.

Software Configuration (Example)

Example: keyless entry system



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