nuvoTon

NPCT42x Trusted Platform Module (TPM)

General Description

The NPCT42x single-chip Trusted Platform Module (TPM) is a family of third-generation, Nuvoton Environment schema for devices. The devices implement the Trusted Computing Group (TCG) version 1.2 specifications for PC-Client TPM.

The NPCT42x devices are designed to reduce system boot time and Trusted OS loading time. They provide a solution for PC security for a wide range of PC applications.

The NPCT42x family of devices are Microsoft® Windows® compliant and are supported by Linux kernel v2.6.19 and higher.

Features

General

- Single-chip TPM solution
- ...
- ... Specification Version 1.2 ... TPM interface Specification
- Host Interface
  - TPM 1.2 standard interface
  - Supports legacy locality by using TIS and ... I/O mapped registers
- Secure General Purpose I/O (SGPIO)
  - Five GPIO pins
  - I/O pins individually configured as input or output
  - Configurable internal pull-up resistors
  - TCG 1.2 defined interface
  - Dedicated Physical Presence (PP) pin with configurable pull-up or pull-down resistor
- Tick Counter

Bus Interface

- LPC Bus Interface
  - Based on Intel's LPC Interface Specification, Revision 1.1, August 2002
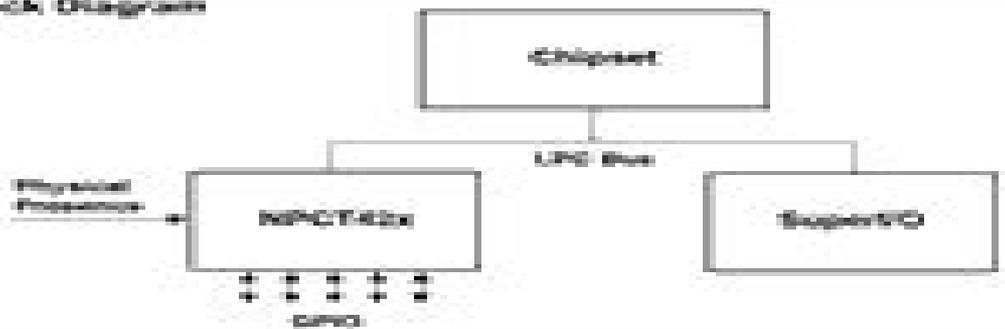 - TPM 1.2 Interface (TIS)

Clocking and Supply

- On-Chip Clock Generator
- Power Supply
  - 3.3V supply operation
  - Separate pins for main (V_{CC}) and standby (V_{BB}) power supplies
  - Low standby power consumption

Software

- TPM BIOS drivers: Memory Absent (MA) and Memory Present (MP)
- TPM Device Driver for Microsoft Windows
- ... Cryptographic Service Provider (CSP) ...

System Block Diagram

[Nuvoton Datasheet](#)

Scorpion King Jr

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Microcontroller Exploits Travis Goodspeed,2024-09-10 Microcontroller Exploits is a deep dive into advanced hardware hacking with detailed examples of real world techniques and a comprehensive survey of vulnerabilities In this advanced guide to hardware hacking you ll learn how to read the software out of single chip computers especially when they are configured not to allow the firmware to be extracted This book documents a very wide variety of microchip hacking techniques it s not a beginner s first introduction You ll start off by exploring detailed techniques for hacking real world chips such as how the STM32F0 allows for one word to be dumped after every reset You ll see how the STM32F1 s exception handling can slowly leak the firmware out over an hour and how the Texas Instruments MSP430 firmware can be extracted by a camera flash For each exploit you ll learn how to reproduce the results dumping a chip in your own lab In the second half of the book you ll find an encyclopedic survey of vulnerabilities indexed and cross referenced for use in practicing hardware security *Laptop Service Training : A Pre Training Material* Scorpion King Jr,2018-06-16 A pre training material for 2 laptop repairing courses or laptop service training Diploma in Card Level and Advanced Diploma in Chip Level Laptop Service Basic card level servicing is removal amp Services Thane Basic Advanced Laptop Servicing 5 Prizm Institute Mumbai Advanced Laptop Servicing 6 IICMT Delhi Basic Advanced Laptop Servicing 7 Prakash Cellular Service Bangalore Basic Advanced Laptop Servicing 8 Robozz Lab Indore 9 Green Chip Institute Bangalore

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1. This book is structured into several chapters, namely:

   - Chapter 1: Introduction to Nuvoton Datasheet
   - Chapter 2: Essential Elements of Nuvoton Datasheet
   - Chapter 3: Nuvoton Datasheet in Everyday Life
   - Chapter 4: Nuvoton Datasheet in Specific Contexts
   - Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Nuvoton Datasheet. The first chapter will explore what Nuvoton Datasheet is, why Nuvoton Datasheet is vital, and how to effectively learn about Nuvoton Datasheet.
3. In chapter 2, the author will delve into the foundational concepts of Nuvoton Datasheet. The second chapter will elucidate the essential principles that must be understood to grasp Nuvoton Datasheet in its entirety.
4. In chapter 3, this book will examine the practical applications of Nuvoton Datasheet in daily life. This chapter will showcase real-world examples of how Nuvoton Datasheet can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Nuvoton Datasheet in specific contexts. This chapter will explore how Nuvoton Datasheet is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Nuvoton Datasheet. This chapter will summarize the key points that have been discussed throughout the book.
   The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Nuvoton Datasheet.

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