

NPCT42x Trusted Platform Module (TPM)

General Description

The NPCT42x single-chip Trusted Platform Module (TPM) is a family of high-performance, NuvoTon ChipKeeper™ technology devices. The devices implement the Trusted Computing Group (TCG) version 1.2 specifications for PC-Client TPM.

The NPCT42x devices are designed as feature-rich system boot time and trusted OS loading devices. 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 v2.6.18 and higher.

Features

General

- PC-Client TPM solution
 - TPM 1.2 compliant
 - No BIOS update required
 - Supports TCG version 1.2
 - Supports TPM interface
- Host Interface
 - TPM 1.2 standard interface
 - Supports legacy flexibility by using TIS protocol
 - I2C mapped registers
- Secure General Purpose I/O (GPIO)
 - 4x8-bit GPIO pins
 - I/O pins individually configured as input or output
 - Configurable internal pull-up resistor
 - TCG 1.2-defined interface
 - Dedicated Physical Presence (PP) pin with configurable pull-up or pull-down resistor
- Clock Generator

Bus Interface

- LPC Bus Interface
 - Based on Intel's LPC Interface Specification, Rev. 4.0 (v4.0), August 2000
 - TPM 1.2 interface (TIS)

Clocking and Supply

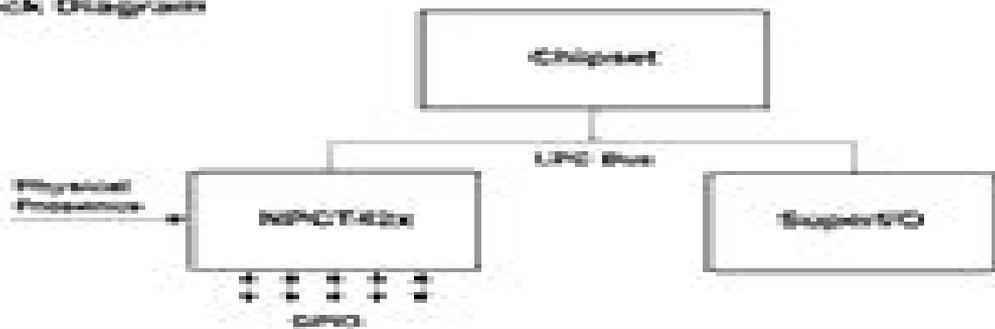
- On-Chip Clock Generator
- Power Supply
 - 3.3V supply operation
 - Separate pins for main (VDD) and standby (VDD) power supplies
 - Low standby power consumption

Software

- TPM BIOS, Secure Memory Access (SMA) and Memory Protect (MP)
- TPM Device Driver for Microsoft Windows
- TPM Cryptosystems (supported by Security Intel®)
 - Intel® Key Storage (KST)
 - Intel® Key Management Driver (KMD)
 - Intel® Key Management Software (KMS)
- TPM 1.2 compliant

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System Block Diagram



Nuvoton Datasheet

JL Elias



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