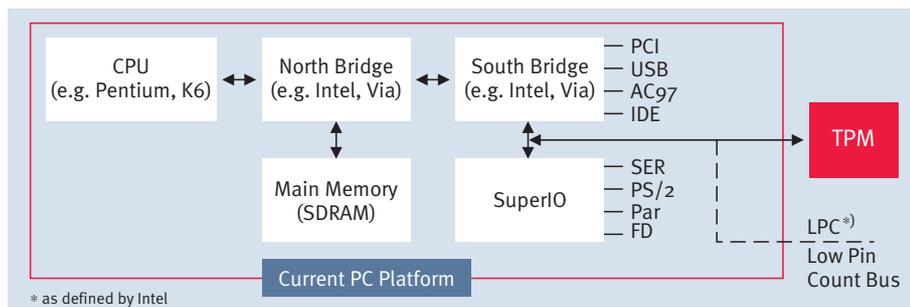
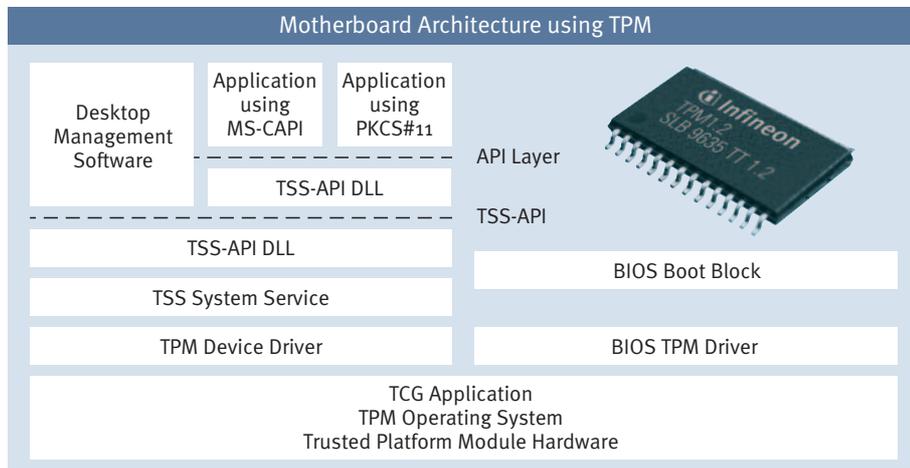


Hardware Features of the TPM 1.2

- TCG 1.2 compliant trusted platform module (TPM)
- Security architecture based on Infineon SLE66CXxxPE security controller family
- 16-bit microcontroller in 0.22 µm CMOS technology
- TCG 1.2 compliant embedded software
- EEPROM for TCG firmware enhancements and for user data and keys
- Advanced Crypto Engine (ACE) with RSA support up to 2048 bit key length
- Hardware accelerator for SHA-1 hash algorithm
- True Random Number Generator (TRNG)
- Tick counter with tamper detection
- Protection against Dictionary Attack
- Infineon's TPM 1.2 will be certified at Evaluation Assurance Level (EAL) 4 Medium at TÜViT Labs in Germany
- General Purpose Input/Output
- Intel® Trusted Execution Technology Support
- AMD® Secure Virtual Machine Architecture Support
- Microsoft's recommended GPIO included
- Full personalization with Endorsement Key (EK) and EK certificate
- Power saving sleep mode
- 3.3 V power supply
- WHQL dual mode 1.1b + 1.2 TPM Windows Kernel Mode Driver
- Operating temperature range: 0°C to +70°C



Note:
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 GemSafe for TPM is a registered trademark of Gemalto.

Interfaces

- Low Pin Count (LPC) interface to allow easy system integration
- Operates from a single 33 MHz clock
- Support of power down signal to enter low-power standby mode
- Support of dynamic clock shutdown (CLKRUN)

Package

- Small Low profile TSSOP-28 package
- Green package

Security Features

- Over/Under voltage Detection
- Low frequency sensor
- High frequency filter
- Reset filter
- Memory Encryption (MED)
- Additional security features

Software Features

- Embedded secure operating system
- Embedded TCG application
- Reference implementation for PC-BIOS integration
- TPM Professional Package (supporting Windows 2000, Windows XP Home, Windows® XP Professional, Windows XP Tablet, Windows 2000/2003 Server Windows Vista, Linux driver)
 - TSS software stack compliant to TCG specifications
 - TPM Cryptographic Service Provider (CSP)
 - Infineon's desktop management software for policy enforcement and security feature management

Support of MS-CAPI and PKCS#11 Applications

- Microsoft Outlook® and Outlook Express®
- Microsoft Office 2000, Office XP and Office 2003
- Microsoft Internet Explorer®
- Netscape Communicator®
- Microsoft Encrypted File System
- RSA Secure ID®
- Check Point™ SecuRemote/SecureClient
- Check Point™ VPN-1®/FireWall-1 NG®
- Entrust™ Desktop Manager Solutions
- GemSafe for TPM /Smart Card



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