

Sentry Hardware Lock – Standalone Version

Need of Sentry Hardware Lock :-

Sentry Hardware Lock – Standalone Version is the perfect solution for software developers those who want to protect their Standalone application and prevent software piracy and revenue drain.

Functionality of Sentry Hardware Lock :-

Sentry Hardware Lock – Standalone Version fits on parallel port or USB port of a personal computer and the protected software check's the presence of this device at pre-defined time intervals as specified by software developer. Absence of the device halts the execution of the software.

It negotiates successfully with all variations of parallel ports and printers to be interfaced, making it a 'no-worries' hardware lock.

Implementation of Sentry Hardware Lock :-

Sentry Hardware Lock is supported with the APIs designed for all 16 bit and 32 bit language environment, therefore to implement Sentry into your application, you will have to incorporate these API calls given by us in the form of a DLL / LIB, depending on the response you get from the lock, you will have to navigate the program accordingly. (In short, if lock not found, exit the code). This being API based approach, you may insert call for Lock interrogation anywhere and whenever you need in your application.

Technical Specifications - Hardware Features:-

Specification for Sentry USB port Lock:-

- ✓ USB connectivity for true plug & play.
- ✓ Complaint with USB specification version 1.1
- ✓ Data transferring rate upto 1.5Mbit per Second.
- ✓ USB bus powered. No external power required.
- ✓ Powered by a8-bit micro-controller Engine.
- ✓ Stand by current consumption =25 microA approx.
- ✓ Real time clock (implemented without battery)
- ✓ User Non-volatile memory of 30 words (60 bytes) to store sensitive information. Expandable upto 4054 words (8108 bytes)
- ✓ Unique inscribed 32 bit ID in the lock for different Developers.
- ✓ Every lock uniquely inscribed in the lock for production serial number.
- ✓ 10 Million Write operations permitted on each non-volatile memory cell with 10 years of Data Retention.
- ✓ Write cycle to any of the location = 10 ms max
- ✓ Estimated MTBF(Mean Time Between Failure) 15000 hours.
- ✓ Zero level of EMI/RFI
- ✓ Operating Systems support Win 98(SE) / ME / 2000 / XP.

Specification for Sentry Parallel port Lock:-

- ✓ Powered by a 16 bit RISC micro-controller Engine.
- ✓ Ultra Low Power consumption (400 micro ampere in active mode)
- ✓ Conforms to standards IEEE-1284 Level I and IEEE-1284 Level II for PC Printer port.
- ✓ Real Time Clock in every product (implemented without battery) for Time based Software Renting.
- ✓ Control on Number of Execution for Count based Software Renting.
- ✓ Cascading of Sentry on Sentry(different Batch), and with lock of another vendor.
- ✓ User Non-volatile memory of 42 words (84 bytes) to store sensitive information.
- ✓ Uniquely inscribed 32 bit ID in the lock for different Developers.
- ✓ Every lock uniquely inscribed in the lock for production serial number.
- ✓ 10 Million Write operations permitted on each non-volatile memory cell with 10 years of Data Retention.
- ✓ Improved handling of the peripheral devices like scanner, ZIP, JAZZ, CDROM drives.
- ✓ Encryption algorithms in Hardware design.
- ✓ Write cycle to any of the location = 10 ms max
- ✓ Estimated MTBF(Mean Time Between Failure) 15000 hours.
- ✓ Zero level of EMI/RFI

Software Features:

- ✓ Supports Win 3.X/95/98/ME/NT/2000/XP, Linux and DOS.
- ✓ Programming support available to virtually any programming languages through well defined APIs.
(Example :- PB, C, C++, VC, VC++, VB, Delphi, Foxpro, Clipper , JAVA etc..)
- ✓ APIs for 16bit, Win 16, Win32s & Win 32.
- ✓ API based device driver installer.
- ✓ Device Driver installer utility.
- ✓ Memory editing utility.
- ✓ Utility for .EXE file protection feature available.