

Sentry Hardware cLock (Real Time Clock)

We know how it feels when someone snatches your rights and continues to do so. Yes, we are talking about unbridled software piracy. Inevitably the software developers biggest thorny issue is software piracy which turns into the revenue drain. Since the software industry began, there is a strong need to eliminate the dodgy market seller making pirated copies of the software.

Did you ever thought of renting or leasing your software and could not find a way to limit the use of your software or way to expire it after a specified time limit?

Were you looking for a solution which would secure your DEMO/Real Time software and the lock provided is not hacked?

Were you looking for an option, which will allow you to update your clients remotely and give them different modules depending on the status?

Sentry Hardware cLock (Real Time Clock) breaks this deadlock of software pirates and gives you the most reliable solution to protect your DEMO software and allows you to rent/lease software without any kind of worries.

Sentry Timer Lock gives you option of storing the date, months and year which allows you to distribute the software with pre-defined usage. It has Built in Real Time Clock with battery backup, which is independent of the PC Clock and can be successfully used to protect any Real time applications, which are prone to attacks.

Sentry Hardware cLock is available for both Standalone and Network applications.

Sentry Hardware cLock can protect your Network applications on your client-server application and allows you to control the number of concurrent users.

Sentry Hardware cLock Standalone functionality:

Sentry Hardware cLock fits on the parallel port of a personal computer, perfectly. The protected software then checks the presence of Sentry at pre-defined time intervals as specified by the software developer. And if the hardware lock is missing, then the software ceases to function, immediately.

Apart from this, with access to built in, non-volatile memory and Real time Clock, you can control number of execution of protected software, store variables, control the number of features along with other exiting security features.

Sentry Hardware cLock Network functionality:

Sentry Network Version is the extension of standalone model for controlling the execution of protected software under Network environment. This Hardware Lock is meant for any application working in any Windows or Novell NetWare based network. Under this scheme, a hardware lock is fitted on a machine, on which the Sentry Server

application is installed. This server program signals the presence of Sentry to all the nodes, thus allowing the nodes on the Network to access the lock with well-defined API. The nodes can then access the lock by means of APIs, which are in the form of protocol DLLs/libraries.

With this scheme, you get all features of the Standalone version and most importantly, you can control the number of users concurrently using the protected application.

The communication executed in this process under Windows platform is primarily based on Windows Sockets 1.1 and is compatible with Windows Sockets 2.0. It must have the TCP / IP installed on every node as the basic backbone. Under Novell NetWare based solution the NLM acts as a Lock Server and IPX /SPX communication protocol is used.

Specification:

- Built-in Real Time Clock (with 3V, 230mAH battery) for Time based Software Renting.
- Built-in Real Time Clock uses less than 300nAH at 2V.
- Built-in Real Time Clock totally nonvolatile with over 10 years of operation in the absence of power.
- Tolerance == +- 3 Seconds / day.
- 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.
- 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

Sentry Hardware cLock Features:

1. The Real Time clock(RTC) provides seconds, minutes, hours, day, date, month, and year information.
TIME FORMAT -- HH:MM:SS DATE FORMAT DD:MM:YY
2. The end of the month date is automatically adjusted for months with fewer than 31

days.

3. Including corrections for leap year valid up to 2100.
4. The clock operates in 24-hour mode.
5. Inbuilt password known only to the software developer.
6. 24 bytes long signature.
7. Inbuilt Lock identity that distinguishes one Lock from the other.(No two Locks can ever be same even if their signatures and passwords match).
8. Ultra low software overheads.
9. Can be interfaced to high level languages like VC++, VB & VFP through linkable object modules or DLL.
10. Envelop Protection in case of no source code available.
11. Runs under DOS, Windows 3.XX/95/98/NT/2000/XP.
12. Software provided with Lock cannot be used with any other Lock.
13. Keep track of number of executions.
14. Keep track on the specified time limit in days, the best solution for Try Before You Buy(TBYB).
15. Field programmable. Developer can create own signature.
16. With Sentry Remote Upgrade Feature Customer can easily get his Software upgraded right from his place.
17. Totally reliable in operation over the years.
18. Guaranteed Hacker-Proof.
19. The user may keep back-up copies of the package on many PCs, but only the PC on which the Sentry Hardware Lock is connected will execute the package.