

Sentry Hardware Lock – Network Version (50 Users) :-

Need for sentry Hardware Lock – Network Version:-

Sentry Hardware – Network Version is the perfect solution for the software developers those who want to protect their high valued Network based application, to prevent piracy and revenue drain.

Functionality of Sentry Hardware Lock :-

On any Windows or Novell Netware based network, Sentry is to be fitted on the parallel or USB port of one of the network node and the other nodes can access the lock by means of the protocol DLLs and server provided.

The node on which the Sentry is installed acts as a Lock server by executing the server program. Under Novell Netware, NLM provided acts as a Lock Server. This server program announces the presence of Sentry Lock to all the nodes, thereby allowing the nodes on the Network to access the lock with well defined API.

The other nodes communicate with the Lock server by means of a functions provided in DLL/LIB, and execute the suitable action. Absence of the device on the Server will return relevant status, and according exit the software from server .

The communication executed in this process 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 back-bone. In case of Novell Netware IPX/ SPX communication protocol is used.

Implementation of Sentry Hardware – Network Version :-

Sentry Hardware Lock is supported with the APIs designed for all 32 bit language environment, therefore to implement Sentry into your application, you will have to incorporate some 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.

Novell Netware based solution offers support for 16 bit and 32 bit languages.

Software developers can also control the number of users by using Sentry Hardware Lock – Network Version (No. 50 of Users as a default setting) .

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 95/98/ME/NT/2000/XP and Novell Netware 3.xx & above.
- ✓ Supports IPX/SPX, TCP/IP NetBuel network protocols
- ✓ Supported with 50 Users with Single Sentry Hardware Lock – Network Version.
- ✓ Programming support available to virtually any programming languages through well defined APIs.
(Example :- 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.