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## **Instructions for Radio Systems' Computer Timebase Synch Kit.**

### **Requirements:**

Radio Systems CT-6 Master or GPS Master Clock  
Radio Systems CT-6 Computer Synch Kit  
Windows 95/98 – equipped PC with an available DB-9 serial port

### **Contents of Radio Systems CT-6 Computer Synch Kit:**

Software diskette  
RJ-45 Patchcord  
RJ-45 Converter Box w/Power Supply

Note: Before starting the installation, create a backup disk of the software installation disk. Store the original diskette in a safe place and use the backup disk to install the software.

### **Installation**

Copy the file TimeSynch.exe to a folder on your hard drive. You may do this by simply 'dropping and dragging' the file to a folder, or using the following command line prompt:

Copy a:\timbase.exe c:\clock (where the directory 'clock' is where you wish to place the program)

If you wish to run the program automatically when you start your PC, add the following line to your win.ini file:

Load=c:\clock\TimeSynch.exe (where the directory 'clock' is where you wish to place the program)

Connect the clock side of the RJ-45 Converter Box to the Master Clock using the Serial Data Out + - terminals. Observe proper polarity. Connect the PC side of the converter box to an available DB-9 serial port. If you only have a DB-25 port available, you will need to purchase a DB-9 to DB-25 converter.

Finally, ensure that your PC's clock is set to approximately the correct time (specifically, make sure that the hour is correct)

### **Running the Program**

Double-click the TimeSynch.exe icon to start the program.

Click the pop-down Options window and choose "Set Mode Of Operation" Choose "Master Clock Data"

Choose "Set Comm Port" to the proper available Comm port on your PC

Choose "Set Baud Rate" to 9600

Plug the power supply into a 110 V AC power source.

That's it. Every minute, your PC RTC (real time clock) will be updated at the top of the minute with the data from the CT-6 Clock. You can view your PC's clock or the remote data by clicking on "Options" and choosing "View Remote (clock) Time" or "View PC Time" You can minimize the program by choosing "File"->"Minimize" . Do NOT exit the program, as this will stop the synchronization process.

### **Frequently Asked Questions**

Q. My CT-6 clock and PC are displaying different times after I ran the program. Why?

A. The Computer Synch software will only update at the top of the minute. If you JUST started the program, it may take up to one minute for the two displays to synchronize. Also, make sure that the hour on your PC clock is correct.

Q. It's been more than a minute. The two clocks are still different.

A. Double-check all of your wiring connections and ensure that the power supply is plugged in. Make sure that you have chosen "Master Clock Data" as your mode of operation, that your Comm port is working properly, and that 9600 Baud has been selected.

Q. I am using a Radio Systems GPS system for my clock database. Why don't I choose GPS Data under Mode of Operation?

A. That mode is reserved for special applications where a GPS antenna is connected directly into the PC, without using a CT-6 Master clock.

Q. What does Port mode do under "Select Mode of Operation"

A. That is used in conjunction with a third-party data I/O card for synchronizing the PC to an external reference, such as an automation system or satellite receiver. We recommend the model CIO-DIO 24 from Computer Boards, Inc., (508-261-1123) for such applications.

Q. I still need help. What do I do?

A. Contact Radio Systems at 609-467-8000 and ask for technical support.