

No race information is official until the results have been approved by the race stewards. iCard® information is not official and final results may change from that which is broadcast during or after a race.

NOTE: Make certain that your computer settings are such that your computer does NOT automatically go into hibernation, shutdown, or otherwise engage a screensaver. If your computer is setup with any of these options your iCard®USB will be disabled when the screensaver or hibernation is engaged.

NOTE: For best signal reception position the iCard®USB unit so that the antenna is either pointed up. This may only be important when reception is weak.

NOTE: The completeness and accuracy of the information displayed on the iCard® system is largely determined by the completeness and accuracy of the information generated from the T&S system.

In order to display up-to-date information, your iCard® receiver must be receiving the broadcast signal. Signal quality depends on how far the receiver is from the transmitting antenna, whether or not there are structures between the receiver and antenna, and the orientation of the iCard®USB unit itself.

The T&S computer then calculates the time, matches the transponder signal with a competitor name and car number, and records the results. The T&S computer, as a normal part of its operating function, generates an output stream of messages that the iCard® computer program receives and then passes on to your iCard®USB.

The iCard® system must be connected to an automated Timing and Scoring (T&S) system to receive information for transmission to your iCard®USB.

NOTE: Power for your iCard®USB receiver comes from your computer. There are no batteries to replace in your iCard®USB receiver.

- The iCard® software program that receives the Timing and Scoring information and prepares it for broadcast
- iCard® transmitter and antenna that sends the iCard® broadcast
- iCard® receivers that receive and decipher the iCard® broadcast for display on a Nintendo® GameBoy® or a PC

HOW iCard® WORKS

iCard®USB OPERATING INSTRUCTIONS

Congratulations on the purchase of your iCard® Real-Time Race Information USB receiver. iCard® is the first handheld wireless system designed for distribution of race timing and scoring information that provides up-to-date race information and priced for everyday use by race fans and competitors. iCard®USB allows the user to view unofficial, real-time Timing and Scoring information on a computer platform.

Under normal use, your iCard®USB receiver will deliver fun, enjoyment, and convenient access to unofficial but accurate and timely scoring information race after race.

NOTE: Information originates with the Timing and Scoring system and is upstream and separate from the iCard® system.

The iCard®USB works with any Windows-based personal computer with a USB port (iCard®USB is compliant with both 1.0 and 2.0 USB) including personal, laptop, and pocket computers.

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and will be easier to read if the selected font is Andale Mono. "Font" under the "Settings" tab at the top of the program. The columns will line up better at a single moment in time. The size and style of the text can be changed by clicking on **Scoreboard Screen:** This is the screen displays a list of each competitor's times at This view is helpful in determining whether your iCard®USB is receiving all the data.

iCardSim Screen: This screen replicates what would be seen on a GameBoy receiver. The column on the left shows all the available GameBoy "pages". By clicking on a line on the left column, the corresponding GameBoy "page" is shown on the right column. After connecting the receiver to a USB port. Open the iView software. Once opened, related with the session information.

will take a few minutes before all the information is received, but once the receiver has received it's setup instructions (from the local iCard® broadcast) the displays will be populated with the session information. After connecting the receiver to a USB port. Open the iView software. Once opened, the software will automatically detect the iCard receiver and begin downloading data. It will take a few minutes before all the information is received, but once the receiver has received it's setup instructions (from the local iCard® broadcast) the displays will be populated with the session information.

iView Software for transponder-scored racing

use - the differences in the function of each are considerably different. Once your iCard®USB is installed on your computer and drivers in place, open the installed application. Follow the instructions below for the software you have elected to use - the differences in the function of each are considerably different.

Insert the iCard®USB installation CD and double click on the setup icon iCardRX, iView, or both: for use with drag racing choose iCardRX, for all other racing choose iView.

Installation of iCard®USB software on your computer

Attach the antenna to the top of your iCard®USB receiver, plug the USB cable into both the iCard®USB on one end and your PC's USB port on the other. Mount the iCardUSB assembly using the enclosed Velcro if appropriate. Insert the iCard®USB installation CD and connect your iCard®USB receiver to an unused USB port on your PC with the enclosed cable. When the "Add New Hardware" wizard opens, direct the wizard to install the drivers from the "Cygnet Drivers" folder on the iCard®USB installation CD.

Attaching your iCard®USB receiver to your computer

TROUBLESHOOTING		
Trouble	Possible Cause	Remedy
iCard®USB software is not receiving data	iCard®USB is not on	Check to see that the red LED on the receiver is lit. If not, check the cable connections at both the receiver end and the PC end to ensure good contact.
	iCard®USB software is not CONNECTed	Close and reopen the software.
	Receiver is not "hearing" the iCard broadcast.	Check the "Carrier Detect" LED on the receiver (the middle LED) If the LED is not lit, then the iCard is not receiving the broadcast. It is possible that the broadcast has been interrupted.
Computer shuts down & lap times not recorded	Receiver buffer is full (BUF box is red)	This may be caused by host computer's inability to integrate data as fast as the receiver is collecting it. Close other programs as necessary to speed your computer's process speed.
	Computer setup is halting reception	Disengage settings that activate hibernation mode or screensaver (Control panel\Display then "Screen saver" panel).
When CONNECT button selected an error message appears "USB Receiver not found"	Receiver is not connected to the computer	Connect receiver to computer
	iCard®USB drivers have not been installed on your computer	Install drivers
Data jumbled in spreadsheet	Data not sorted	Select the information to be viewed from within the spreadsheet package and, following the procedure for that software, define the database and sort.
Times in spreadsheet are nonsense	Numeric format for the columns are incorrect	Reformat numeric for the cells (MM:SS.000)

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Database Screen: Displays how the data is being logged into the database log file. To enable logging, select "Log Laps" under the "Settings" tab. A dialog box appears allowing entry to of a name and location for a log file. The file created will be a "comma-separated-value (csv)" file, which can be opened with most spreadsheet (Excel, Lotus 123, Microsoft Works, etc...).

Other Features

Channel Selection - Your **iCard®USB** receiver is capable of operating on two different channels. Click on "Channel" under that tab will cause the receiver to change channels. The number of the channel being monitored displayed beside the word "Channel".

Status indicators - In the upper left hand corner is a group of colored boxes labeled "Buf", "CD", and "x%". These indicate the following:

- BUF box: this box changes color as the iCardUSB receiver's buffered memory is filled and emptied
 - Green: buffer is completely empty. This is significant because the buffer will not be empty if information is being received.
 - Yellow: there is data in the buffer. Under normal circumstances, the color will flicker between yellow and green as data is loaded into the buffer from the radio, and emptied by the software.
 - Red: buffer is completely full. When this happens, the first green LED on the USB receiver will not light and the receiver will overwrite data in the buffer.
- CD box: this box will turn green when the incoming signal is strong enough to be detected by your **iCard®USB**. When the center LED on your **iCard®USB** is lit, this box will be green, otherwise, it will turn red. Reposition the receiver antenna to get a stronger signal.
- x% box: this indicates the relative signal strength of the radio signal.
 - Square to right of % box - Indicates track flag condition (green, yellow, or red).
 - Rectangle to right of Session - this changes color depending on the track condition of the session, as well.
- File menu - The following options appear under the "File" tab:
 - Clear All - Clears all data stored in the program.
 - Clear Session - Clears the last session data.
 - New Logfile - Starts a new log file.
 - Exit - Closes the program.

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Time Slip - Clicking on this icon will display a box that shows timeslip information for the two competitors on the track only.

Every five minutes while the program is running, a log file automatically updates. This file is located at C:\Program Files\iCard\iCardRX\[filename].csv. Manually clicking on the "Save Log" icon will cause an identical file to be created in a specified location (but not automatically updated by your **iCard®USB**). The field definitions for either log file are as follows (from left to right):

- A - run number, odd numbers are left lane, even numbers are right lane
- B - Date/Time Stamp
- C - Session Name
- D - Car Class
- E - Car Number
- F - Driver Name
- G - Lane
- H - Bump Time (Blank if N/A)
- I - Dial Index (Blank if N/A)
- J - Reaction Time
- K - 60 ft. ET
- L - 330 ft ET
- M - 660 ft ET
- N - 660 ft MPH
- O - 1000 ft ET
- P - 1000 ft MPH (Blank if N/A)
- Q - 1320 ft ET
- R - 1320 ft MPH
- S - Margin of Victory (Blank if N/A)
- T - Over/Under Index (Blank if N/A)
- U - Win (Blank if lost, or N/A)

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iView Software (cont.)

Settings menu - The following options appear under the "Settings" tab:

- o Log Laps - If checked, the program will log all data into the selected logfile.
- o Calculate Lag - Causes the program to calculate a time interval between competitors..
- o Class Available - If checked, it indicated that Class information is being sent from the transmitter.
- o Driver Info - If checked, it indicates that Driver information is being sent from the transmitter.
- o Channel [x] - Selects which radio channel is being used to receive the data.
- o Output - Enables an RMON-compatible data stream to be broadcast from the selected port number over TCPIP.
- o Font - Allows the user to select Scoreboard font style and size.

Commands menu - The following options appear under the "Commands" tab:

- o DISCONNECT - Clicking this option will cause the program to disconnect from your iCard®USB and stops the reception of information.
- o Refresh - Clicking this option, or hitting the "F2" key on the keyboard will refresh all screens.
- o Initialize - Clicking this option will initialize the receiver.
- o ClearDB - Clicking this option will clear all data from the database.

iCardRX Software for Drag Racing

Open the **iCardRX** software. Once opened, **iCardRX** automatically detects **iCard®USB** and once the broadcasted instruction set is received (this can take a few minutes), **iCard®USB** begins downloading data.

Save Log - Clicking on this icon will cause all data to be logged into the specified file.

Race Log - Clicking on this icon will open a "Race Log" screen, which will display timeslip information for all competitors in the current session. Right-click on this screen and selecting "View" in the dialog box that appears will allow selection of the information display options.

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LIMITED WARRANTY

SPP Services, LLC ("SPP") warrants this Product against defects in material or workmanship as follows:

LABOR: For a period of one (1) year from the date of purchase, if this Product is determined to be defective, SPP will repair or replace the Product, at its option, at no charge. After the Warranty Period, you must pay for all repair or replacement.

PARTS: In addition, SPP will supply, at no charge, new or rebuilt replacements in exchange for defective parts for a period of one (1) year. After the warranty period, you must pay for all parts costs.

To obtain warranty service, you must send the Product, or deliver the Product freight prepaid, in packaging affording a reasonable degree of protection to:

SPP Services, LLC
3470 Haddon Hall Drive
Bruford, GA 30519

This warranty does not cover customer instruction, installation, set up adjustments or signal reception problems.

This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of the Product, including the antenna. This warranty does not cover damage due to improper operation or maintenance, connection to improper power supply, or attempted repair by anyone other than SPP. This warranty does not cover Products sold AS IS or With ALL FAULTS, or display hardware (such as Nintendo® GameBoy®s). This warranty is valid only in the United States.

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.

This warranty is invalid if the serial number has been altered or removed from the Product.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. SPP SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

For services assistance or resolution of a service problem, or for product information or operation, contact SPP at www.iCardUS.com.

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