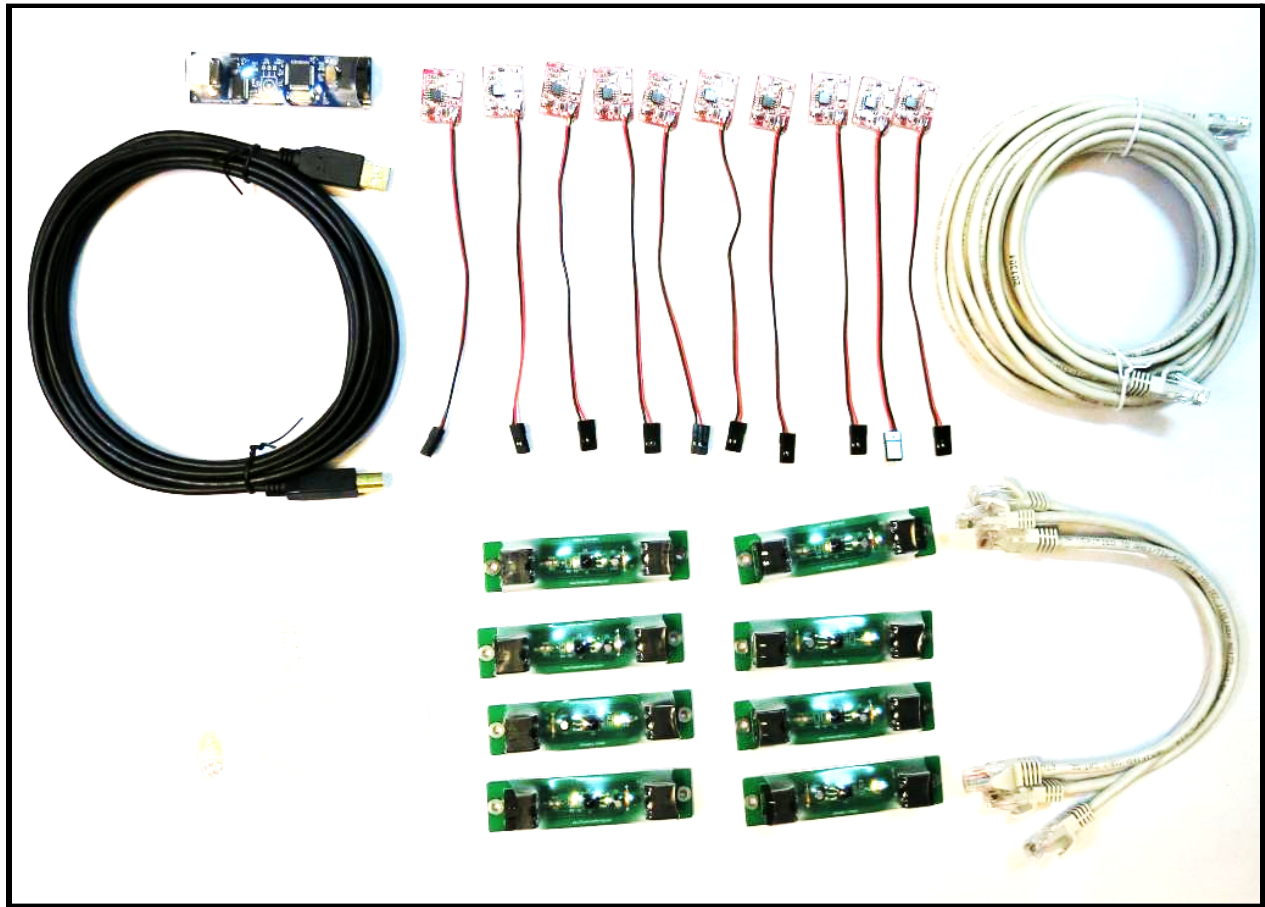# RC Lap Counter

HARDWARE GUIDE
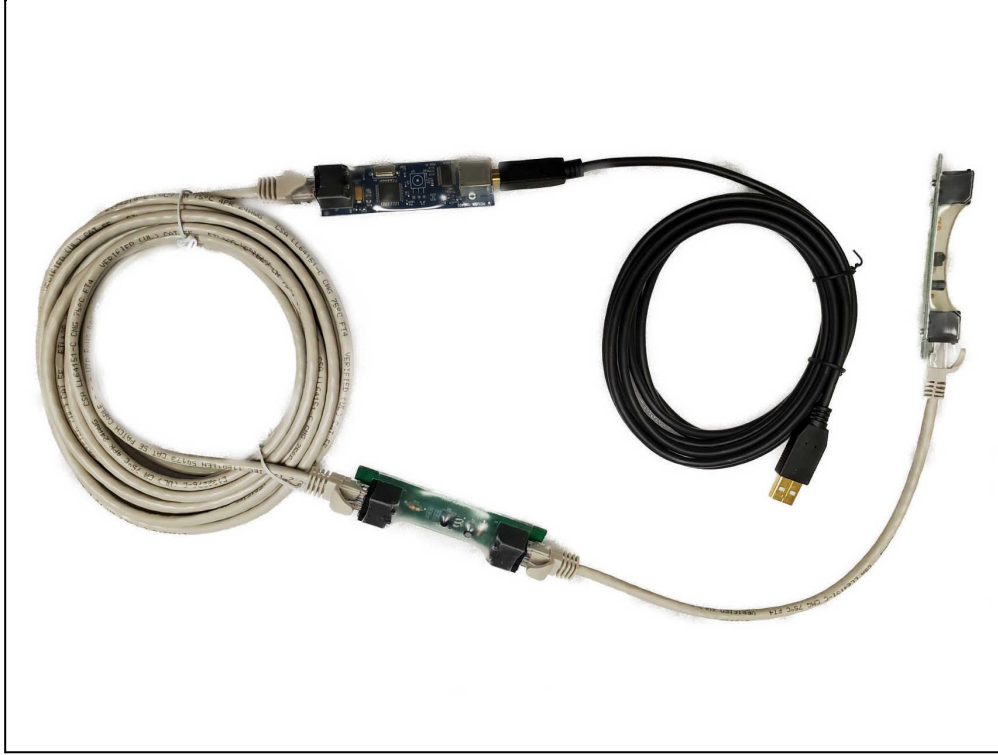
Trackmate RC Lap Counter

Features

- Supports Practice, Qualifying, Timed, Qualifying Laps, Race Timed, Race Laps
- Auto detect ID and display name. No names to enter before race; just click GO
- View all lap times - you can also sort lap times
- View race summary - number of laps, best lap, median, number of crashes and crash percentage etc.
- Print laps
- Print summary
- Save data to disk - as text or "Lap" and "Summary" files
- Open and view saved data
- Instant Start or Formula One start
- Reset best lap time for any racer - just click on it , useful in practice
- Sounds - Get ready, Go, White flag, Checkered flag, Race over, 10 seconds left
- Displays green flag, yellow flag, checkered flag and race over during race
- At end of race, waits for everyone to complete current lap
- Updated help file
- Track length and scale in settings
- Start race with lap 0 or 1 in settings
- Display MPH
- Display Median (a median of 4.5 seconds means 50% of your lap times are below 4.5 and 50% above 4.5
- Configure data to display; Lag behind, lag First, median, or MPH by clicking on column heading even on the fly during a race
- Demo mode - you can test all the features with no hardware attached
- Com port and Interface Auto detect; for easy Installations
- Merge several saved summaries together and sort on any field, useful when qualifying more than 14 racers
- Auto Save Data
- Auto Print
- Hot keys

New Version 7.0

Installing Sensors in Bridge

For 1:10 scale make a bridge to hold the sensors about 22" above. For 1:24 scale like mini-z the bridge can be as low as 7" for small indoor tracks. The end sensors should be about 6 inches from the edge of the lane. Use the 12 inch cables to interconnect the sensors. Do not recess overhead detectors.
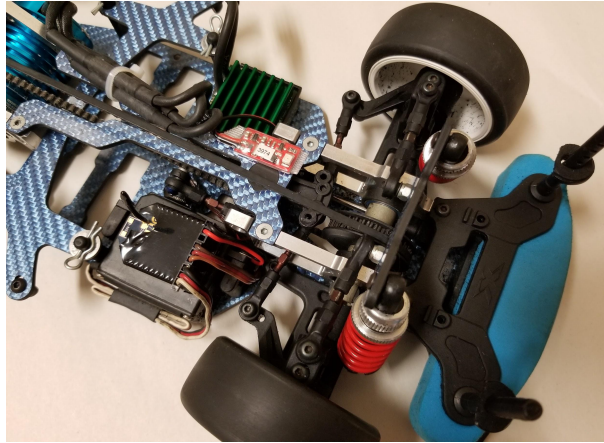

Installing Software

Software can be downloaded from the website; www.Trackmateracing.com click Support on the Top menu and follow the download and installing instructions.

Installing Transponders

The transponders should be under the windshield, with nothing obstructing the infrared LED (The small white square). The transponder's red or blue LED will blink about every 7 seconds when it is powered on. The green LED on the controller lights up when it is powered on. The yellow LED will light up when it detects a transponder.

Half Scale

Mini-z

On a Mini-z 1:24 scale you can mount the transponder with sided tape.

Transponder wired for mini-z with 2.4ghz radio

If your Mini-z has a 3 pin connector, then plug your transponder into the 3 pin connector.

If your Mini-z has a 3 pin connector and a 4 pin connector then plug the transponder in the 4 pin connector. The transponder will be powered only when the power switch is on. Note that the Mini-z sports series no longer has 5 volts on the white connector so a connector adapter with small eyelets are used to connect the transponder to battery.

Traxxas

If there's no clear windshield...
Create a small hole in the body and place the white square on the transponder aligned with hole. Diameter of hole should be roughly equal to the distance the transponder is from the body.   So try to mount the transponder up close to the body if you want a small hole. Hole should align with the white square on the transponder. It does not have to be a hole, removal of paint will work also.

Large Scale
Personally, I like using a zip tie to secure the transponder. The white square on the transponder is the infrared LED, so ensure that you don't cover that. Velcro is not recommended.

FAQ - Frequently Asked Questions

Remove it out of DEMO mode

Go to "Settings>Installation Settings" and select Iridium.
For Version 7.0+ Go to settings and uncheck demo

It won't count laps

Is the green LED ON, on the controller? If not, check the power plug. Does the yellow LED come on when the transponder is in range? If not check overhead detector cables.
Did you click the start button on the main screen to start Race? Clock must be counting to count laps. Ensure that you have the correct com-port selected.

It only counts every other lap

Check the minimum lap time setting. It should be set lower than the best possible lap time.

ID shows up on screen instead of name

Go to Racers and verify that the correct ID number was entered.

Transponder LED is blinking rapidly

This can be caused by very low battery voltage or it could be plugged in backwards or in the wrong port.

Troubleshooting

Laps are counted when the transponder leaves the sensor bridge, not upon entering it. Remember this while testing, as it may give the impression that the transponder is not working properly. The Yellow LED will light up on the controller when the transponder is within range of the overhead detectors. This is very useful as you can roll your car through the bridge and expect to have the transponder in range about one foot before and one foot past the bridge.

Warranty and Return

Trackmate system hardware carries a one year warranty from the date of original purchase. In the event that the hardware requires to be returned please contact us first for an authorization and return instructions. Please note shipments returned to us without an authorization will be refused.

Trackmate Products

More Interesting Products from Trackmate Racing
- ➢ Power Supplies
- ➢ Slot car driver stations
- ➢ Slot car mini relay panel
- ➢ Slot car controllers
- ➢ Sell Time
- ➢ Drag Racing Timing for slot cars, R/C cars, Cars, ATVs etc.
- ➢ RC transponders / Lap Counters (for radio controlled cars)
- ➢ Sports Timers
- ➢ Custom Timing Solutions

For more information on these products, visit www.TrackmateRacing.com

Trackmate Racing

Web: www.trackmateracing.com
Support: support@trackmateracing.com
Sales: sales@trackmateracing.com

Call: 877-756-8227 Toll Free USA and Canada