

Impinj R2000 □ UHF RFID □□□ □□□ □□□



For timing system, mainly have three solution as below:

• Solution 1:

Start line and finish line at the same point, runner just run around the circular road for many times.



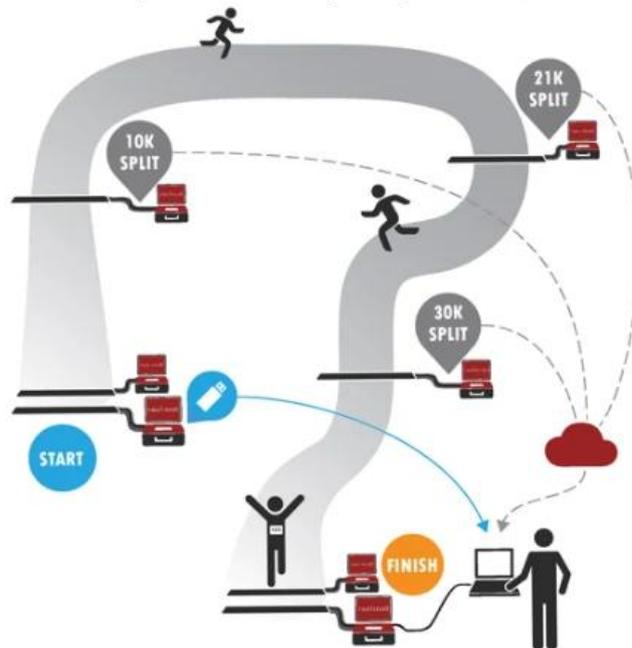
• Solution 2:

Start line and finish line at the same point, but there is one check point in the middle of the running road, runner also run around the circular road.



• Solution 3:

Start line and finish line at different point, there are many check points in the middle of the running road.



System description for different solution:

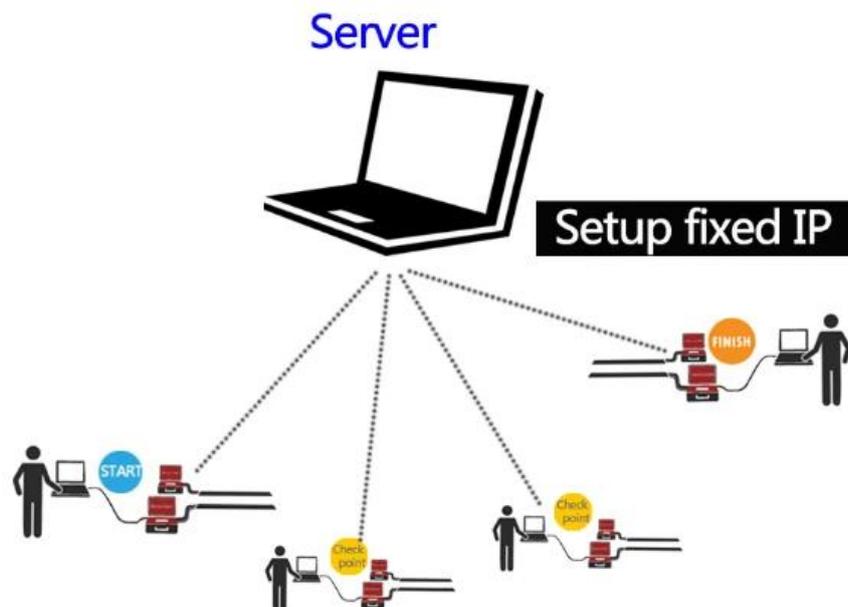
- Solution one:

Just need use one computer connect with reader at the start/finish line, install system on the computer, when reader detect tag, tag information can transfer to system directly.

- Solution two and three:

Can put the server in your company, set one fixed IP or same domain name, install many computer at different point (start /finish line, check point), install client server in the computer, after reader detect the tag, the information can transfer to head server, also can set tag information synchronization every 5s or 10s, then can check the runner information at different point.

We can provide those system



Follow are relative products can use for running race timing system:

Use our UHF RFID R2000 fixed reader connect with UHF floor mat antenna, install at start/finish line, check point, let runner fixed the sports tag on bib number or shoes, when runner pass the line, tag can be detected, then transfer to system, can use UHF desktop reader/writer to program runner information into tags.

Follow are related products specification:



UHF RFID R2000 fixed reader with four antenna ports

Frequency:UHF(865~868MHz/902~928MHz)

Protocol:ISO18000-6C(EPC GEN2)

Interface:RS232/RS485/RJ45

Antenna Port:4 antenna ports

With Impinj R2000 engine

Size:310*210*41mm



UHF RFID USB desktop reader/writer

Frequency:UHF(865~868MHz/902~928MHz)

Protocol:ISO18000-6C(EPC GEN2)

Work mode: read and write

Interface: USB



UHF floor mat antenna

Frequency;UHF(860~868MHz/902~928MHz)

Gain(dBi):6

Polarization: Vertical

Size:1100*550*30mm

Material: rubber



UHF 9dbi panel antenna

Frequency:902-928MHz,865~868MHz

Gain(dbi):9

Polarization:circular

Connector:N-female

Size:257*257*25mm



UHF PVC sports tag

Frequency:UHF

Chip type:UHF Alien H3

Material: Foam

Size:103*30*5mm

Stick on bib number



UHF foam sports tag

Frequency:UHF

Chip type:UHF Alien H3

Material: Foam

Size:103*30*5mm

Stick on bib number



UHF ABS ankle tag

Frequency:UHF

Chip type:UHF Alien H3

Size:55*45*12mm

Material:ABS

Wear on ankle



SCENE APPLICATION



RFID Unmanned Supermarket Management

This application features a central image of a supermarket produce section. To the left, there are four icons: a yellow RFID tag, a black square, a roll of white tape, and a light blue square.



RFID Vehicle Tracking Management

This application features a central image of a car at a toll booth. To the right, there are four icons: a white square, a white square with a black dot, a black square with a white logo, and a roll of white tape.



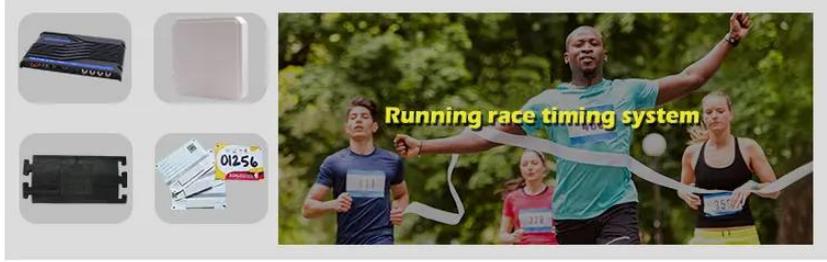
Trash Can management system

This application features a central image of a yellow autonomous refuse truck. To the left, there are four icons: a white rectangular device, a white square, a white rectangular device, and a green rectangular device.



RFID books management

This application features a central image of a library. To the right, there are four icons: a black square, a smartphone with a tag, a white rectangular device, and a white cylindrical container.



Running race timing system

This application features a central image of runners crossing a finish line. To the left, there are four icons: a blue tag, a white square, a black rectangular device, and a race bib with the number 01256.



RFID laundry management

This application features a central image of a laundry worker. To the right, there are four icons: a black rectangular device, a white square, a smartphone with a tag, and a white fan-like object.



RFID Warehouse Inventory Management

This application features a central image of a warehouse with a forklift. To the left, there are four icons: a black keyboard, a monitor displaying a grid, a white square, and a roll of white tape.

