

SPORTident SRR-Dongle



April 2016

The SPORTident short range radio (SRR) enables wireless transmission of SPORTident data records over distances of up to 8 metres. The radio is working in the licence free 2.4 GHz radio band and can be used worldwide. The following SPORTident products are enabled for SRR:

Data sources

- BSF8-SRR
- SIAC

Data receivers

- SRR radio dongle (connects to a PC)
- SIGSM-DN (GSM modem)

SI-SRR uses two radio channels (named “red” and “blue”) to achieve a robust data transmission with a low error rate. While the data sources use the two channels simultaneously, the data receivers always work at one and the same channel.



The SRR dongle receives data records sent from BS8-SRR or SIAC. The device features an USB interface for easy connection with PC, laptop or other standard communication equipment.

Because the SRR dongle works at one radio channel permanently this channel has to be configured by Config+. To profit from the frequency agility of the SI-SRR, two receivers are required, operating at the red and blue channel, respectively. For correct functionality it is important to check that the receivers do not work at the same radio channel.

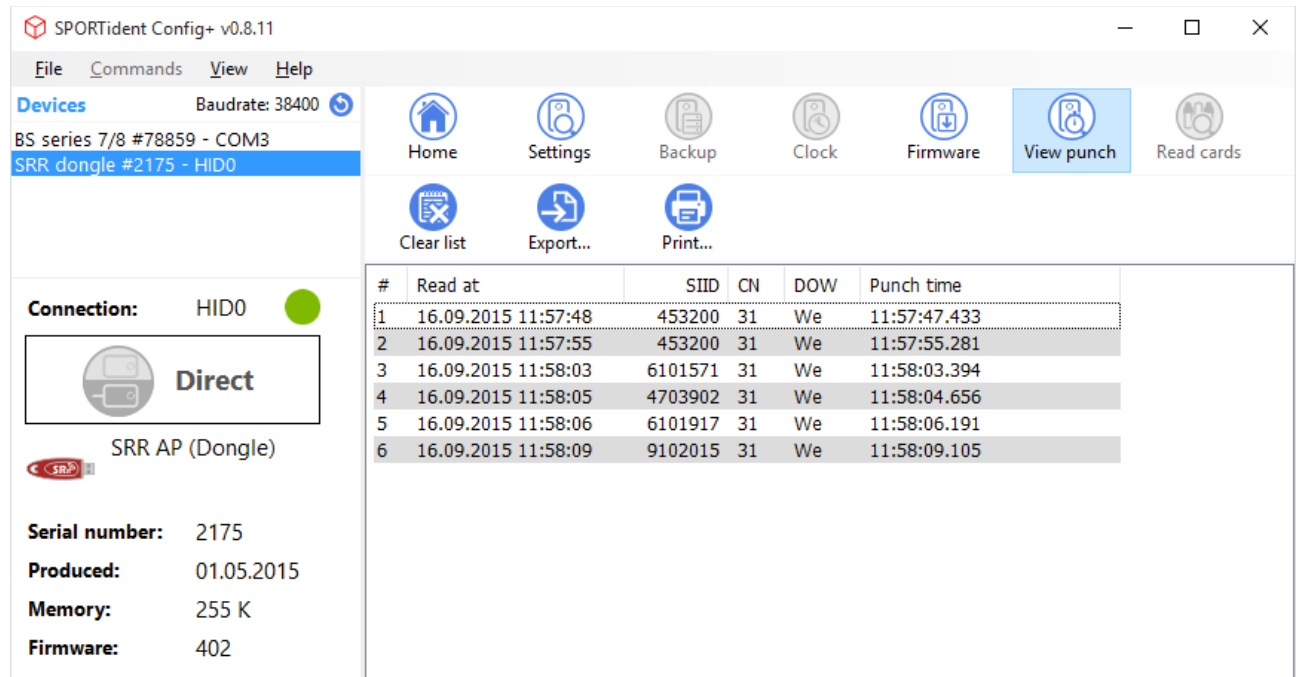
The screenshot shows the SPORTident Config+ v0.8.11 application window. The interface includes a menu bar (File, Commands, View, Help) and a toolbar with icons for Home, Settings, Backup, Clock, Firmware, View punch, and Read cards. Below the toolbar are buttons for Switch off, Read, Revert, and Apply. The main area displays the configuration for the SRR AP (Dongle). The 'Connection' is set to HID0. The 'Radio channel' is set to '1 - Blue' (highlighted in red), and the 'Protocol' is set to 'Air+ protocol (enhanced mode)'. The device details are listed below:

| | |
|----------------|------------|
| Serial number: | 2175 |
| Produced: | 01.05.2015 |
| Memory: | 255 K |
| Firmware: | 402 |

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The SRR dongle is able to manage up to eight logical radio links. There is no upper limit for data sources working in ad-hoc mode. SIAC always works in this mode.

Data received by the device can be computed by standard event software. Also Config+ features a simple monitor function to visualise the SRR functionality. Select the SRR Dongle as your target device and choose the feature 'View punch'. This will bring up the following view, the dongle is ready to receive data now.



SPORTident Config+ v0.8.11

File Commands View Help

Devices Baudrate: 38400

BS series 7/8 #78859 - COM3
SRR dongle #2175 - HID0

Home Settings Backup Clock Firmware View punch Read cards

Clear list Export... Print...

Connection: HID0

Direct

SRR AP (Dongle)

Serial number: 2175
Produced: 01.05.2015
Memory: 255 K
Firmware: 402

| # | Read at | SIID | CN | DOW | Punch time |
|---|---------------------|---------|----|-----|--------------|
| 1 | 16.09.2015 11:57:48 | 453200 | 31 | We | 11:57:47.433 |
| 2 | 16.09.2015 11:57:55 | 453200 | 31 | We | 11:57:55.281 |
| 3 | 16.09.2015 11:58:03 | 6101571 | 31 | We | 11:58:03.394 |
| 4 | 16.09.2015 11:58:05 | 4703902 | 31 | We | 11:58:04.656 |
| 5 | 16.09.2015 11:58:06 | 6101917 | 31 | We | 11:58:06.191 |
| 6 | 16.09.2015 11:58:09 | 9102015 | 31 | We | 11:58:09.105 |

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Specification

| | SIAC |
|-----------------------------|--|
| Model type | USB-Dongle |
| Typical application | Orienteering, MTB, Enduro, Triathlon, Trail and other outdoor sports |
| Radio frequency | 2.4 GHz band (2.400...2.483GHz) |
| Radio channels | “red”, “blue” |
| User feedback signal | Optical (red, green and yellow LED) |
| AIR+ ON | by CHECK or SIAC-ON, slowly flashing green LED indicates ON state |
| Internal record buffer | 30 |
| Firmware | V4.0 and higher, no user upgrade |
| SI-System compatibility | BS8-SRR, all firmware versions SIAC, all firmware versions |
| Operating temperature range | -20°C ... +50°C |
| Protection class | IP 40 (DIN EN 60529) – not water proofed |
| Battery | No battery, powered by USB |
| Current consumption | 30 mA |
| Warranty | 2 years, |
| Weight | 15 g |
| Dimensions | 65 mm x 20 mm x 12 mm |
| Colours | red |

Notes:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the

interference by one or more of the following measures:

- Reorient or relocate the receiving antenna. -- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.