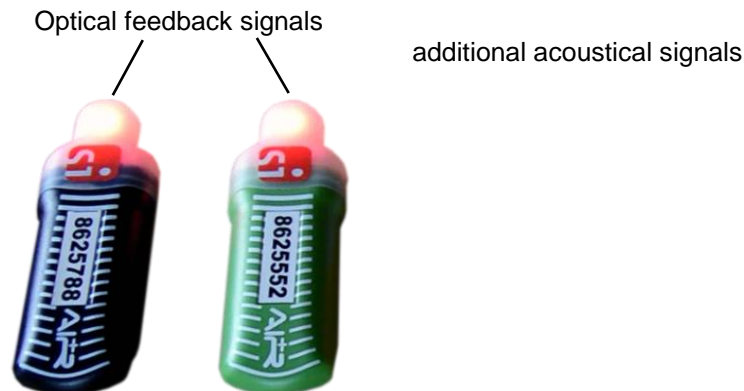


### 1. General information

The SPORTident-ActiveCard "SIAC1" is a combined active/passive transponder card. It works in the classical SPORTident direct punching mode, as well as for contactless punching, when the SPORTident AIR+ system configuration is used.



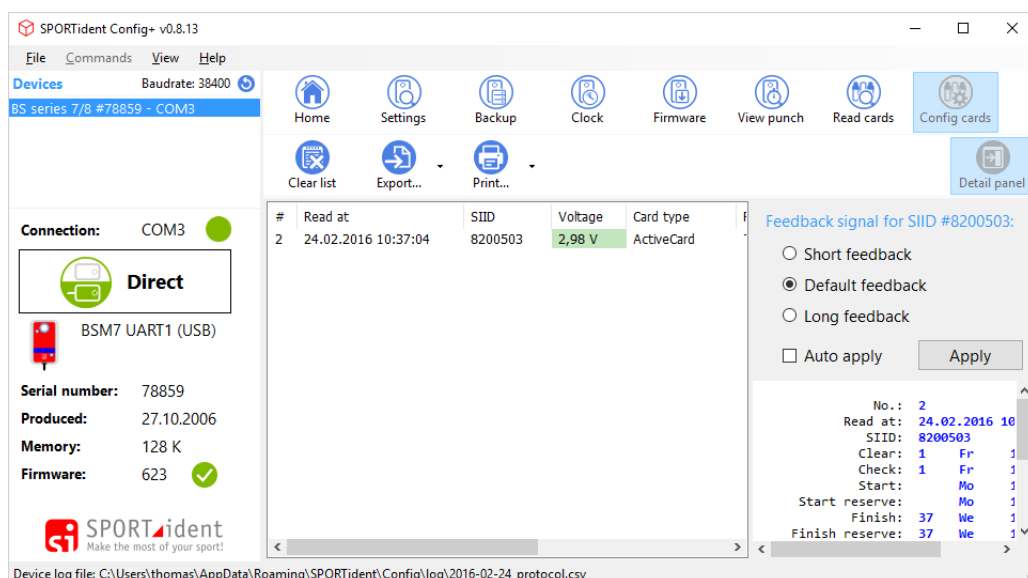
SIAC contains a battery and will always work in direct punching mode even if the battery is empty. Direct punching provides a fall-back option to register at controls. In contactless punching mode the SIAC's optical and acoustic feedback signals confirm that a control code and timestamp have been successfully written to the card.

SIAC features extremely low power consumption. The estimated battery life time is about 4 years if the card is used about 40 times a year in orienteering events. SIAC's battery can be replaced in a qualified service process.

SIAC and the AIR+ configuration meet the latest IOF specification for contactless punching in orienteering. The IOF specification gives different working distances for the disciplines of the sport but there is no difference in the user experience offered by AIR+.

### 2. Basic setup

SIAC can be personalised according to user's requirements. A record of athlete's personal data can be stored in SIAC's memory. In addition, SIAC's feedback signals can be configured by using SPORTident Config+.



In general, it is recommended to use a longer feedback cycle for applications in Ski-O and MTBO and a shorter feedback cycle for Foot-Micro-O.

## SPORTident AIR+

### How to prepare and use the SIAC – Information for athletes

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SIAC is delivered with a balanced setting of the feedback signals to meet best the requirements of typical orienteering events.

#### 3. Preparation before the race

It is very important to ensure that the battery in the SIAC has sufficient power before it is used at an event. The station "SIAC Battery Test" can be used to perform a straightforward test.



The station indicates sufficient battery reserve with a normal beep and a warning message if the battery is low. The battery check should be carried out in the event centre and not immediately before the start. SIAC's AIR+ features are not always active so that power consumption is reduced. AIR+ functionality is enabled at an event by the CHECK-process after the chip has been cleared.



The CHECK-process is mandatory for all SPORTident AIR+ applications. AIR+ functionality is switched off by the FINISH-punch.

#### 4. During the race

During the race, the SIAC in AIR+ mode registers the time and station's code number when in proximity of the station. The feedback signals from the SIAC confirm that the athlete has successfully recorded a visit to the control. While the SIAC is inside the station's working range, feedback signals are sent out continuously.

BSF7/8 stations also work in direct punching mode and the SIAC can be directly punched as a fall back option.

#### 5. How to carry the SIAC

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There is no generally recommended best way to attach and carry a SIAC. However it is important that the athlete should be able to detect the SIAC's feedback signals.

For Foot-Orienteeing the SIAC carried as a finger stick is a good solution.



SPORTident also offers a mounting holder for MTBO.



Mounting holder "Bike" for SIAC

SPORTident AIR+ mode can be compromised by disturbances caused by third party equipment. The active antenna of some GPS-watches can significantly reduce the SIAC's sensitivity. As a general rule a GPS-watch and SIAC shall not be carried on the same arm.



**WRONG** – Do NOT wear a GPS watch and the SIAC at the same arm

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Advanced LED-lamps use a switching circuitry to modulate the lamp's brightness. Some lamp models are not properly protected against emission of these signals. Even the battery leads of these lamps can act as an antenna. The LED-lamp shall not be mounted next to the SIAC and battery leads should not be positioned near the SIAC.



**WRONG** –

Do NOT mount the SIAC next to a LED-lamp



**WRONG** –

Battery leads shall not be positioned near the SIAC