

# SPORTident ActiveCard – SIAC1



March 2016



The SPORTident ActiveCard SIAC belongs to the third generation of SI-Cards. The SIAC is a very powerful device for meeting all the different timekeeping and identification needs in outdoor sports. It is compatible and integrated into the classic SPORTident system and comes in a compact and smart form.

SIAC features an integrated powerful and efficient electronic module. The successful timekeeping and registration of the checkpoints is indicated by an optical and acoustical feedback signal emitted by the SIAC. The SIAC features high recording speed and a large memory size. It completes the identification cycle in 60 ms and registers up to 128 intermediate times. All full set of card owners personal data can be stored in the chip.

The SIAC features the AIR+ functionality. Intermediate and finish times are recorded in a proximity range of several meters when passing the checkpoint with a maximum speed of 40 km/h. The device can be used in two different identification modes called **punching mode** and **timing mode** which enables the adaption to specific application needs.

SIAC also features a built-in short range radio. Most typical application is the transmission of time records for online data presentation. There are three different radio modes possible when passing a checkpoint.

March 2016

**Specification**

	<b>SIAC</b>
Model type	Finger stick
Number range	8 000 001 ... 8 999 999
Typical application	Orienteering, MTB, Enduro, Triathlon, Trail and other outdoor sports
Data exchange time	60 ms direct punching 50 ms contactless punching (AIR+ mode)
Passing speed AIR+	maximal 40 km/h, depending on antenna configuration
Time resolution	4 ms / 50 ms depending on operation mode
Time format	24h-format, day of week
RFID frequency	125 kHz
Radio frequency	2.4 GHz (Short range radio - SRR)
Data Readout time	RFID < 4 s, SRR < 1 s
Clear time	< 0.5 s
User feedback signal	Optical (red LED) and acoustical (piezo buzzer) signals, configurable
AIR+ ON	by CHECK or SIAC-ON, slowly flashing green LED indicates ON state
AIR+ OFF	by FINISH or SIAC-OFF
Intermediate time records	128
Special records	CLEAR, CHECK, START, FINISH
Firmware Card	RFID V4.0 and higher, SRR V4.0 and higher, no user upgrade
SI-System compatibility + Firmware stations	SI-Stations BSx7/8, firmware V6.00 and higher SI-Stations BS11, firmware V3.12 and higher
Operating temperature range	-20°C ... +50°C
Protection class	IP 67 (DIN EN 60529) – Protection against penetration of dust – Protection against the ingress of water during short-term immersion
Battery life time	Up to 4 years
Battery exchange	yes, by SPORTident
Warranty	2 years, except battery
Weight	11 g
Dimensions	68 mm x 21 mm x 12 mm
Colours	5 basic colours for body, white tip with logo

**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.