

Skinplex

Detection and near field communication over the skin

Skinplex is the key to Ambient Intelligence and covers two basic functions :

- **Active communication**
of data over the skin
- **Passive sensing**
the change of an electrical field by man

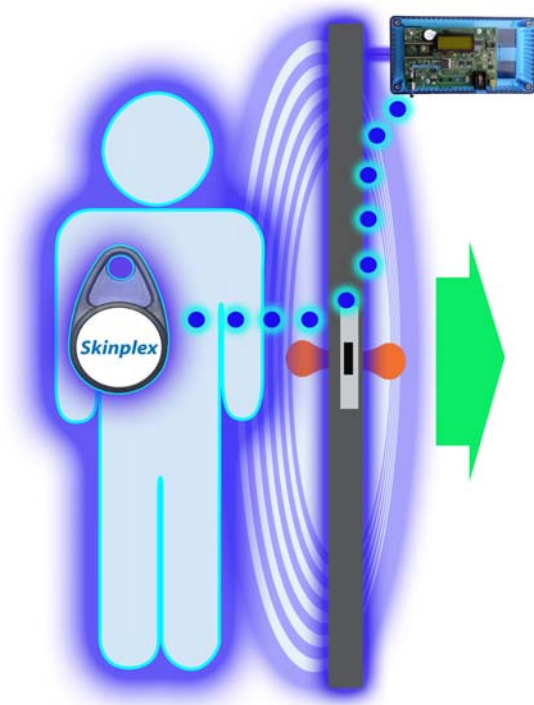
Skinplex is an enabling technology of future near field man-machine communication.

A base technology providing new possibilities in all areas of daily life. It can both, support existing applications and offer solutions for new products.

An ID-Tag or badge which is carried at or near the body serves as identification media. Already during the approach the ID-code can be evaluated.

The door lock is activated if the person touches the handle. The reading distance higher then with RFID, depending on the capacitive area of the Skinplex receiver. No expensive and complicated antenna and strong power supplies.

A Touch-Panel recognizes the person and the Skinplex transmitter over the capacitive near-field. It reads the information already ahead of being touched.



Skinplex Access Control

Skinplex detects approach and touch of humans. This sensor function can be used for jamming protection or as a switch. The sensor ability and communication can be combined.

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Detection

All you need to use Skinplex as a human sensor is a Skinplex receiver and a capacitive area. The approach or touch can quantitatively and qualitatively be registered and processed. Skinplex converts these elementary human actions in practical applications:

- Jamming Protection and Anti-Trapping
- Burgler Alarm
- Intelligent Switches
- Human Sensor



Communication

For the next step, the communication, you need a Skinplex transmitter and a receiver. The transmitter has a unique ID, just like a RFID-transponder. The data is transmitted if you approach or touch a Skinplex receiver or the connected capacitive area. The Skinplex Technology can be used in automotive, automation, telecommunication, security and data-collection. Skinplex provides new solutions and products :

- Security Management and Access Control
- Data-Collection
- Ambient Intelligence
- Operator Authentication



Skinplex is the new way of near field data communication and intelligence ambient. Develop new or improve your existing products.