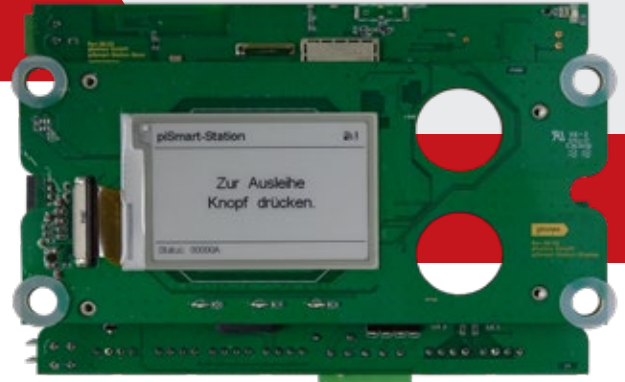




## piSmart-Station



### Features

- customizable multifunction terminal
- acts as a control and display system
- 2.8 " e-paper display with colored side lighting
- RFID reader
- Mobile module 2G/3G/LTE
- internet-based tracking via GPS and GLONASS
- CAN, RS485, Bluetooth LE, WLAN
- 5,5-60V power supply
- digital inputs
- digital outputs
- passepourtout in individual design on request

### Overview

The extremely energy-efficient control and display system "piSmart-Station" can be easily integrated into self-service machines, rental and charging stations, information terminals or kiosk systems.

In addition to a graphic e-paper display, this station controller has a RFID reader, mobile data module as well as various data interfaces such as Bluetooth Low Energy.

The graphic display enables dialogue with the user and convinces with its optical quality without disturbing reflection.

Thanks to the integrated RFID reader, access control takes place quickly and with a high degree of security. piSmart-Station can read RFID cards with a working frequency of 13.56 MHz.

The graphical user interface of the 2.8 "e-paper display ensures easy operation.

The available interfaces, such as CAN, RS485, Bluetooth LE and WLAN, allow quick and easy connection to existing control or management systems.

### Details

#### Basics

Supply voltage (internal)	5,5-60V DC max. 600mA
Battery pack	Rechargeable backup battery Lithium-Polymer
Cooling	Passive cooling
Temperature range	-10 to +60°C (optional extended temperature range)
Display	2,8" e-paper display with colored side lighting
Antennas	GSM antenna (internal / external) GPS antenna (internal / external) BT antenna (internal) WLAN (internal)

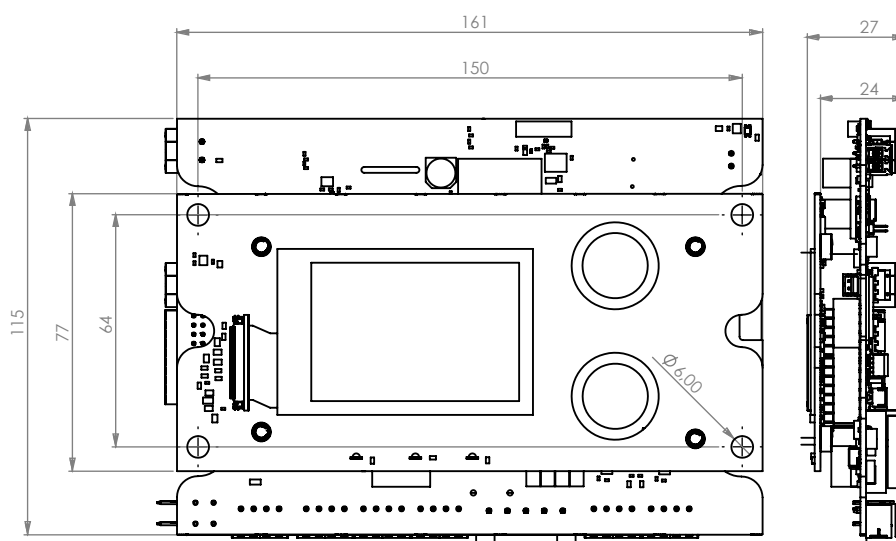
## Interfaces

Inputs	up to 8 digital inputs for e.g. pushbuttons and manipulation detectors
Outputs	up to 7 digital outputs for e.g. door interlocks, signal LEDs, fans, or stepper motor
GSM	850, 900, 1800 und 1900 MHz nanoSIM / SIM-Chip data contract (optional)
CAN	1 x CAN supports up to 1Mbps data rate
RS485	1 x Full Duplex, 20 Mbps
Bluetooth	Bluetooth 4.2 Low Energy
WLAN	Transfer rate: 150 Mbps Frequency: 2.4 GHz Standard: IEEE 802.11 b/g/n internal antenna
RFID	Frequency: 13.56MHz integrated PCB antenna (supports ISO 14443 & 15693) optional external antenna

## Other characteristics

Power supply	Activation of two voltage sources for the external periphery max. 2x 6A
RTC	Real-time clock with backup supply
Acoustic signal transmitter	100dB Piezo Buzzer
Motion sensor	3-axis accelerometer 3-axis magnetic sensor

## Schematic Drawing



## Software

Updates via „OTA“ (over-the-air updates)