

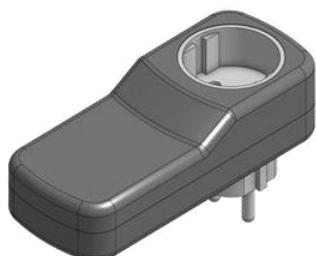
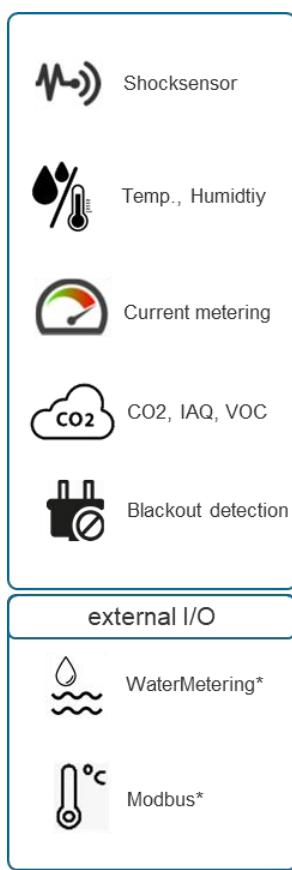
SMARTsocket

IoT Gateway for supervising facility

SMARTsocket is a cellular gateway supporting power supply blackout detection, environmental sensors. It is the ideal solution for companies looking for supervising and managing decentralized facility to prevent unneeded service trips. SMARTsocket leverages the IoT Cloud of Cumulocity and Cloud of Things enabling customers who need to monitor large number of assets to easily integrate that data in one platform.

Ready2Use – Key parameters

- ✓ Blackout detection
- ✓ OnBoard CO2 Monitor
- ✓ External Sensor: Waterleak, temperature
- ✓ Telekom Cloud of Things for easy management
- ✓ LTE-M cellular technology
- ✓ SIM - free selection



Industry

Commercial



Facility Management



Supermarket



Specification

| | |
|-----------------|--|
| | Radio |
| 4G LTE | M1 & NB1 B1 (2100), B2 (1900), B3 (1800), B4 (AWS 1700), B5 (850), B8 (900), B12 (700), B13 (700), B18 (800), B19 (800), B20 (800), B26 (850), B28 (700) |
| 2G | GSM GPRS B2 (1900) B3 (1800) B5 (850) B8 (900) |
| LTE Cat1 | optional |
| Regions | WorldWide |

| | |
|---------------|---|
| | OnBoard Sensors |
| Motion | <p>3-axis accelerometer, $\pm 2g/\pm 4g/\pm 8g/\pm 16g$</p> <ul style="list-style-type: none"> ✓ Continuous Mode ✓ Data Rate 1hz (up to 5300 Hz possible) ✓ Shock detection |

| | |
|-------------------|---|
| Temperatur | <p>Temperature Accuracy</p> <ul style="list-style-type: none"> ✓ -0.5 between 15°C and 40°C ✓ -1 from 0°C to 15°C and from 40°C to 60°C ✓ -2 from -40°C to 0°C and from 60°C to 85°C |
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| Humidity | Humidity accuracy: $\pm 3.5\%$ rH, 20 to +80% rH |
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| Current | <ul style="list-style-type: none"> ✓ Current measuring ✓ 0..1610 Watt (Optional 0..3600Watt) ✓ Current measuring includes active and reactive current ✓ Accuracy: +/-1.5 Watt |
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| Airpressure | <p>Pressure sensor:300-1100 hPa</p> <ul style="list-style-type: none"> ✓ The logging interval of the sensor Readout is selectable from 10sec to 3hours, max. 96 logs for intermediate buffering, until sending to Cloud |
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| AirQuality | <ul style="list-style-type: none"> ✓ Index Air Quality (IAQ): 0..500 according to guidelines issued by German federal environmental agency (Umweltbundesamt). See also here: ✓ https://www.umweltbundesamt.de/daten/luft/luftdaten | | | |
| | IAQ Index | Air Quality | Impact (long-term exposure) | Suggested action |
| | 0 – 50 | Excellent | Pure air; best for well-being | No measures needed |
| | 51 – 100 | Good | No irritation or impact on well-being | No measures needed |
| | 101 – 150 | Lightly polluted | Reduction of well-being possible | Ventilation suggested |
| | 151 – 200 | Moderately polluted | More significant irritation possible | Increase ventilation with clean air |
| | 201 – 250 ^a | Heavily polluted | Exposition might lead to effects like headache depending on type of VOCs | optimize ventilation |
| | 251 – 350 | Severely polluted | More severe health issue possible if harmful VOC present | Contamination should be identified if level is reached even w/o presence of people; maximize ventilation & reduce attendance |
| | > 351 | Extremely polluted | Headaches, additional neurotoxic effects possible | Contamination needs to be identified; avoid presence in room and maximize ventilation |
| | <ul style="list-style-type: none"> ✓ The logging interval of the sensor Readout is selectable from 10sec to 3hours, max. 96 logs for intermediate buffering, until sending to Cloud | | | |

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| CO2, VOC | <ul style="list-style-type: none"> ✓ eCO2. The equivalent CO2 (eCO2) output ✓ eTVOC. The equivalent Total Volatile Organic Compound (eTVOC) output ✓ The logging interval of the sensor Readout is selectable from 10sec to 3hours, max. 96 logs for intermediate buffering, until sending to Cloud |
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| LED | <p>Signal LED:</p> <ul style="list-style-type: none"> ✓ Off – the device is in sleep Mode |
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| | ✓ Slow flashing – The device is waked up and in low Power mode |
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| USB | ✓ USB 2.0 HS - programming, Logging and Trace the device |
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| | External Sensors |
| Waterleak | <ul style="list-style-type: none"> ✓ Flooding detection ✓ Functions: Sicherung von Zuläufen, Abflüssen, z.B. an Badewannen, Waschmaschinen, Heizkesseln, Wasserspeichern etc. |

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|-------------------|--|
| Temperatur | Temperature accuracy: ± 0.5 °C,-15 to +40 °C |
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| | Management Platform |
| Platform | Telekom Cloud der Dinge Cumulocity IoT |

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|-----------------|------------------------------|
| Protocol | HTTPS over TLS1.2 |
| Access | Bi-directional communication |
| OTA | yes |

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|--------------------|---|
| | General |
| Dimension | 99,7 x 55,2 x 28 |
| Ext. Sensor | External Sensor 1,5m cable |
| Weight | 89g |
| LTE Ant. | OnBoard |
| SIM Card | microSim / eSim option |
| Operate T/H | -40..85°C / Max. 85% |
| Storage T | -40..85°C / Max. 85% |
| IP Class | IP20 |
| Approvals | |
| Conformity | 2014/53/EU (Radio Equipment Directive - RED) Radio EN301511 v12.5.1 EN301908 v13.1.1 EMC EN 301489-1 v2.2.0 General Part EN 301489-52 v1.1.0 DIN EN 61326-1 - 2018-09 Safety DIN EN 61010-1:2020-03;VDE 0411-1:2020-03 |
| Warranty | 2 years |

Remote Manager

Capabilities

Fleetmanagement:

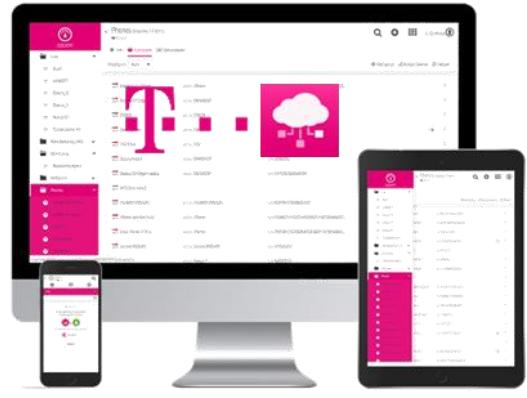
- ✓ Activate, monitor and diagnose your mission-critical devices from a single point — on your desktop or mobile app – Telekom Cloud of Things
- ✓ Monitor the health of your connected facility by taking graphs from a repository of different widgets

Cockpit:

- ✓ Creating threshold monitoring, events, critical alarms ,warnings and reports

Open API:

- ✓ Create Notifications or simply use the REST API from the Cloud platform to feed your third party system with all the data



Platforms

| | | |
|-------------------------|--|----------------|
| Telekom Cloud of Things | | |
| Cumulocity IoT | | CUMULOCITY IoT |
| Siemens Mindsphere | | MindSphere |
| Telia IoT Hub | | |
| A1 Digital | | |
| Ooredoo IoT Hub | | |

Ordering Codes

| IoT Gateway | Ordercode | | | | | | |
|-------------|-------------|------------------------|---|--|---|--|---|
| SMARTsocket | SB410A006XX | 230/110 VAC 50/60Hz | Accelerometer, Current sensor 10A, PowerLoss detection | | LTE CatM, 2G Fallback (opt. NB-IOT) | | Pressure sensor, Temp sensor optional |
| SMARTsocket | SB410A026XX | 230/110 VAC 50/60Hz | Accelerometer, Current sensor 10A, PowerLoss detection | | LTE CatM, 2G Fallback (opt. NB-IOT) | | Temperature external 1,5m cable NTC10K |
| SMARTsocket | SB460A006XX | 230/110 VAC 50/60Hz | Accelerometer, Current sensor 10A, PowerLoss detection, Temperature, Humidity | | LTE CatM, 2G Fallback (opt. NB-IOT) | | Pressure sensor, Temp sensor optional |
| SMARTsocket | SB4C0A006XX | 230/110 VAC 50/60Hz | Accelerometer, Current sensor 10A, PowerLoss detection, CO2, Temperature, Humidity | | LTE CatM, 2G Fallback (opt. NB-IOT) | | Pressure sensor, Temp sensor optional |