STM 550 Multisensor Module

STM 550 enables the realization of energy harvesting wireless sensors communicating according to EnOcean Alliance radio standard. Key applications are wall-mounted or equipment-mounted sensor solutions for the measurement of temperature, humidity, illumination or acceleration / orientation.

STM 550 integrates dedicated sensors for temperature, humidity, illumination, acceleration and magnet contact. These sensors measure and transmit the current status every 60 seconds. The transmission is indicated using a dedicated LED.

STM 550 will immediately wake-up and transmit an update if an acceleration event occurs (e.g. due to being moved or shaken) after a period without such change.

STM 550 contains an integrated solar cell optimized to generate the required energy based on available ambient lighting. Under typical indoor lighting scenarios (200 lux for 6 hours per day) they operate fully self-supplied.

Features overview

For use cases with insufficient available light, it is possible to mount a dedicated backup battery.

STM 550 provides an integrated NFC interface that can be used for device configuration and device commissioning. In addition, it contains an LRN button that can be used for simple commissioning tasks.

STM 550 is available as module in PTM 21x form factor for integration into OEM customer designs. Alternatively, the white label product (WLP) variant EMSIA includes wall mount and front cover.

Order information

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<th>Type</th>
<th>Frequency</th>
<th>Variant</th>
<th>Order Code</th>
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<td>Module</td>
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<td>EMSIA</td>
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<td>WLP</td>
<td>E6201-K516</td>
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Note 1: Sensor measurement range is dependent on the selected EEP
STM 550 should only be used in the operating conditions (temperature / humidity) specified above