

STM 550J KIT Easyfit Multisensor

STM 550J 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 550J integrates dedicated sensors for temperature, humidity, illumination, acceleration and magnet contact. These sensors measure and transmit the current status every 60 seconds.

STM 550J 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 550J 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. For use cases with insufficient available light, it is possible to mount a dedicated backup battery.



STM 550J provides an integrated NFC interface that can be used for device configuration and device commissioning and an LRN button that can be used for simple commissioning tasks.

STM 550J can either be delivered as module in PTM 21x form factor for integration into OEM designs or as product kit which additionally contains wall mount, front cover, magnet and adhesive tape.

Order information

Туре	Frequency	Variant	Order Code
STM 550J KIT	928.350	Kit	B6261-K516
STM 550J	MHz	Module	S6261-K516

Features overview

Transmission Frequency / Data Rate	928.350 MHz / 125 kbps	
Transmission Power	0 dBm	
Transmission Range (for guidance only)	typ. 150 m free field / 20 m indoor environment	
Temperature Measurement Range / Accuracy	-20 °C +60 °C $^{(NOTE\ 1)}$ / $\pm\ 0.3$ K	
Humidity Measurement Range / Accuracy	0 100 % r.h. $^{(NOTE 1)}$ / \pm 3% r.h.	
Illumination Measurement Range / Accuracy	0 65000 Lux $^{(NOTE \ 1)}$ / \pm 10 %	
Acceleration Measurement Range / Accuracy	± 2 g / ± 0.03 g	
Acceleration Wake Threshold	0.03 g (default, configurable via NFC)	
Update Rate (excl. random offset)	Every 60 seconds (configurable via NFC)	
Device Configuration	NFC (ISO 14443)	
	D2-14-41 (default)	
Supported EEP (selectable via NFC)	D2-14-40, A5-02-05, A5-04-01, A5-04-03	
	A5-06-02, A5-06-03, A5-14-05, D5-00-01	
Power Supply	Integrated solar cell	
Operating Time In Darkness (at 25°C)	4 days (after full charge)	
Backup Power Supply (optional)	CR1632	
Dimensions (EMSIJ)	49 mm x 49 mm x 13 mm	
Operating Temperature / Humidity	-5°C +45°C / 0 90% r.h. (non-condensing)	

Note 1: Sensor measurement range is dependent on the selected EEP

EMSIJ should only be used in the operating conditions (temperature / humidity) specified above