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Gwen datasheet

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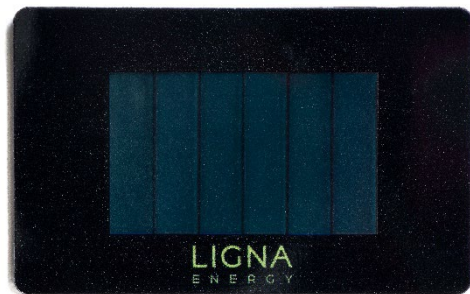
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Gwen

Gwen is a sensor device that harvests energy from indoor light and stores it in our supercapacitor called S-Power 2S. It measures temperature & humidity and sends data using Bluetooth Low Energy (BLE).

Features

- No batteries - self-powered by indoor light
- Temperature & humidity sensor
- Very compact and thin



Specifications

Physical

Parameter	Denotation	Typical value	Unit
Width	A	86	mm
Height	G	54	mm
Thickness		2.55	mm
Mass	m	10.25	g

TABLE 1 PHYSICAL DATA

Environmental

Parameter	Conditions	Min	Typical	Max	Unit
Operating temperature	Charge Discharge	-20	25	60	°C
Operating rel. humidity	Noncondensing	0	45	85	%

TABLE 2 OPERATING AND STORAGE ENVIRONMENT

Sensor

Parameter	Details	Value	Unit
Interval	Temp & Humidity	60	seconds
Minimum voltage		2.2	V

TABLE 3 SENSOR SPECIFICATIONS.

BLE Communication

Parameter	Details	Value	Unit
Advertise interval		60	seconds
Advertise duration		3	seconds
BLE voltage		2.2	V

TABLE 4 BLE COMMUNICATION SPECIFICATIONS.

Energy storage

Parameter	Details	Value	Unit
Voltage range		0-2.6	V
Total energy storage		1.127	mWh
Available energy	(1.0 – 2.6V)	0.96	mWh

TABLE 5 ENERGY STORAGE SPECIFICATIONS.

Charge time

Parameter	Details	Value	Unit
50 lux	(0-1V)	420	Min
200 lux	(0-1V)	100	Min
500 lux	(0-1V)	37	Min