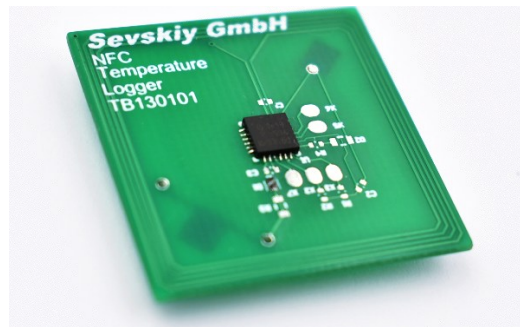


NFC Temperature Logger Kit



General information

The TB130101-01 Temperature Logger Kit is a compact NFC-enabled module designed for precise temperature monitoring and long-term data logging. It is based on the NXS3100 chip, featuring an integrated temperature sensor, NFC antenna, and programmable memory.

Typical applications

The TB130101-01 is versatile and can be employed in various systems, including:

- Cold-chain monitoring
- Medical and pharmaceutical storage
- Industrial temperature control
- IoT and smart packaging
- Environmental and agricultural sensing

Electrical data

Chip	NXS3100
Power supply	CR2032 coin cell or NFC field
Logging memory capacity	11,300 records
Logging interval	Configurable via software
Battery life @ 22°C	≥ 5 years (1 log/hour)
Temperature accuracy (absolute) ¹⁾	±0.5°C between -40 and 0°C
	±0.3°C between 0 and +45°C
	±0.5°C between +45 and +85°C

Mechanical data

PCB dimensions	29x 29 x 0.8 mm
Overall thickness (with CR2032)	5.5 mm
Weight (with CR2032)	5 g
PCB material	FR4

Environmental data

Operating temperature [°C]	-40...+85
Storage temperature [°C]	-40...+85
Ambient relative humidity [%]	0...85 (non-condensing)
RoHS / REACH compliant	yes / yes

Additional information

¹⁾ According to the chip manufacturer's datasheet.

Performance was measured in free space and at normal conditions.

Further customization, electromagnetic simulations and measurements can be offered on request.

The Kit can be additionally equipped with 3D-printed housing.

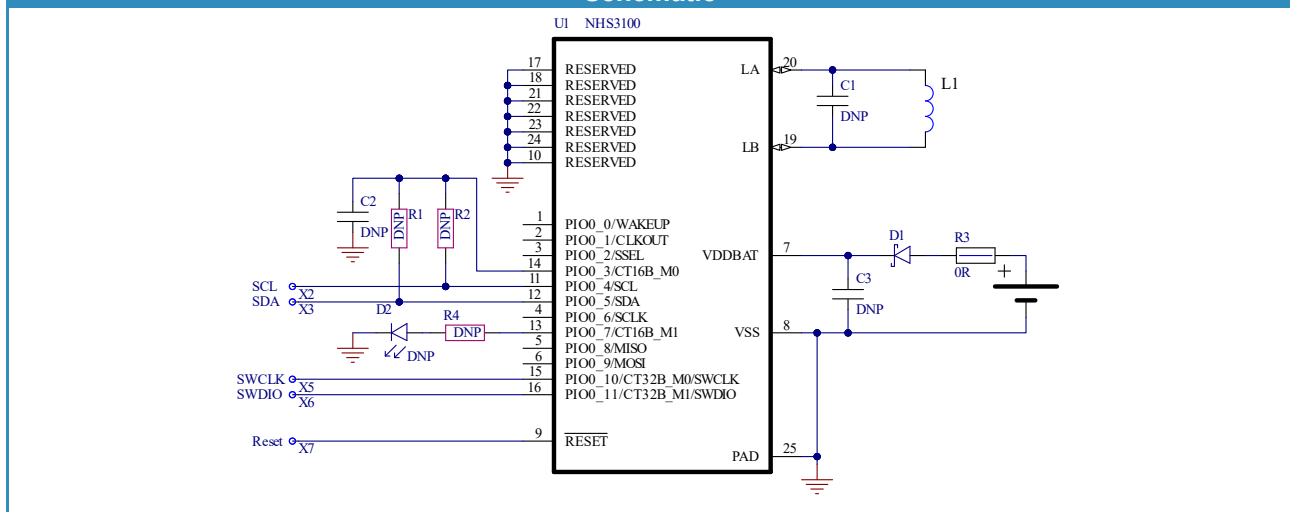
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NFC Temperature Logger Kit

The TB130101-01 Temperature Logger Kit can operate as a passive temperature sensor powered only by the NFC field, without the need for a battery. In this configuration, the thickness is reduced to approximately 1.65 mm. Software for configuration, reading, and data download is available from the manufacturer's website. Users can program this Kit via SWD using industry-wide standard solutions for ARM Cortex-M0+ processors, or via NFC and the freely provided NFC program downloader. Programming via NFC can only be done once.

Sevskiy GmbH reserves the right to make cosmetic changes that do not affect the declared performance parameters.

Schematic



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