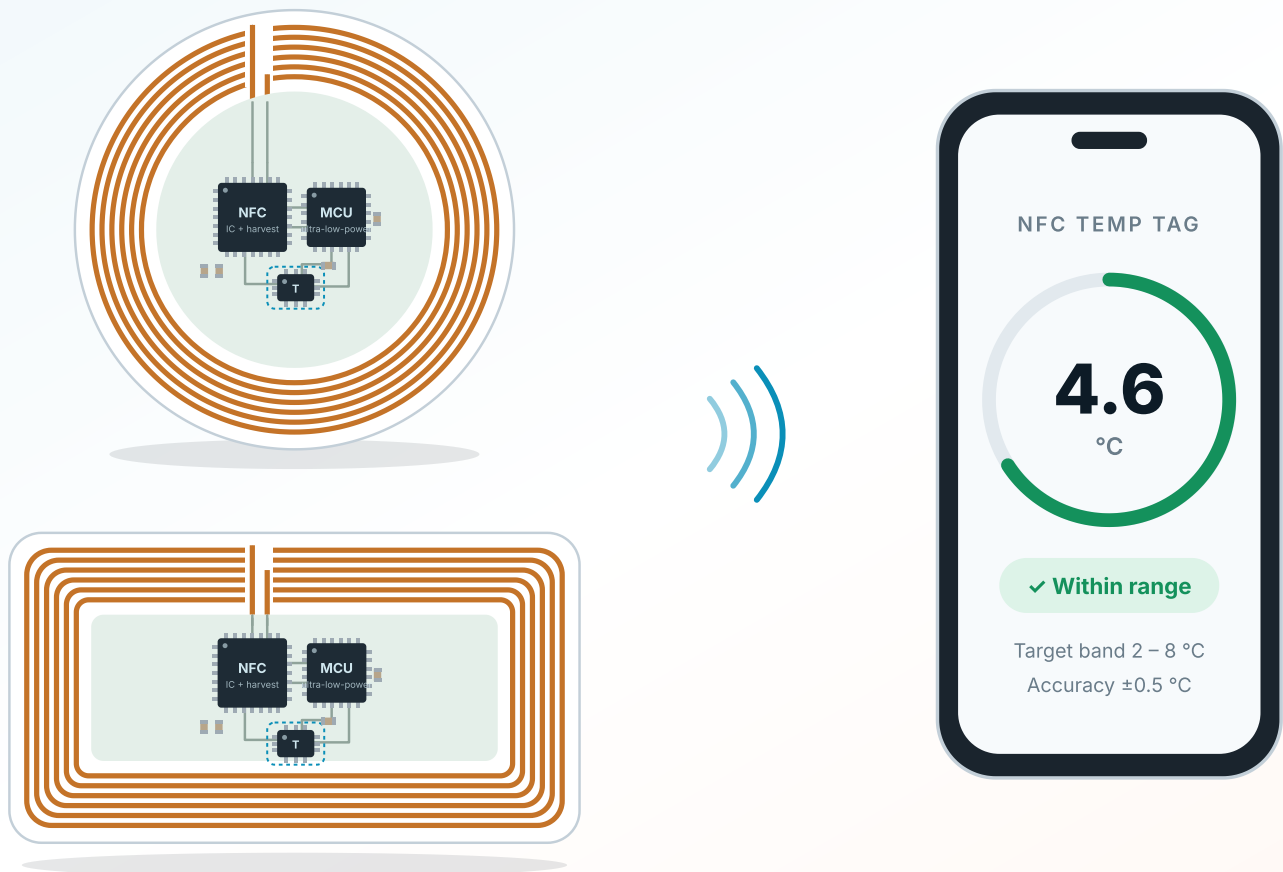


Know the temperature with a tap.

The Creatronix NFC Temperature Tag lets anyone check the temperature of a pharma shipment or frozen-food consignment at the moment it changes hands — just bring an NFC-enabled smartphone close to the tag.



±0.5 °C

Measurement accuracy

Tap

Read with any NFC-enabled smartphone

0

Extra readers or equipment needed

2

Form factors: circular & rectangular

WHY IT MATTERS

The weakest link in a cold chain is the handover.

The problem

Medicines, vaccines and frozen foods change hands many times — warehouse, transporter, distributor, pharmacy, retailer. At each handover the receiver has to decide, on the spot, whether the goods are still at a safe temperature. Probe thermometers are slow, need opening the pack, and are often not at hand.

The Creatronix answer

A thin, self-adhesive tag stays on the product or carton. Anyone with a phone can tap it and see the current temperature in about a second, accurate to $\pm 0.5^{\circ}\text{C}$ — no data logger, no reader, no cables. Where continuous logging isn't required but a trustworthy check is, this is the simplest tool for the job.

HOW IT WORKS

1


Stick

Peel the liner and press the tag onto the carton, vial tray or pack — any clean, non-metallic surface.

2


Tap

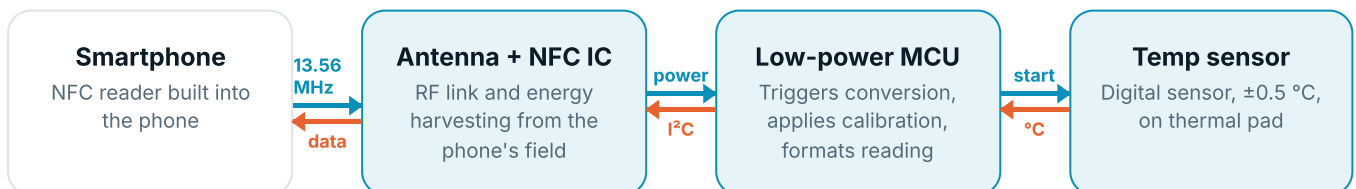
Hold an NFC-enabled smartphone near the tag. The phone's field wakes the tag and powers the measurement.

3


Decide

The temperature appears on the phone instantly. Accept the goods, or flag them before signing for delivery.

INSIDE THE TAG — SIGNAL PATH



Discrete by design

Rather than a single all-in-one chip, the tag uses three dedicated parts — NFC front-end, microcontroller and precision sensor — each chosen for its job.

Better accuracy

A dedicated digital sensor on its own thermal pad delivers $\pm 0.5^{\circ}\text{C}$, tighter than the on-die sensors in typical single-chip NFC tags.

Room to grow

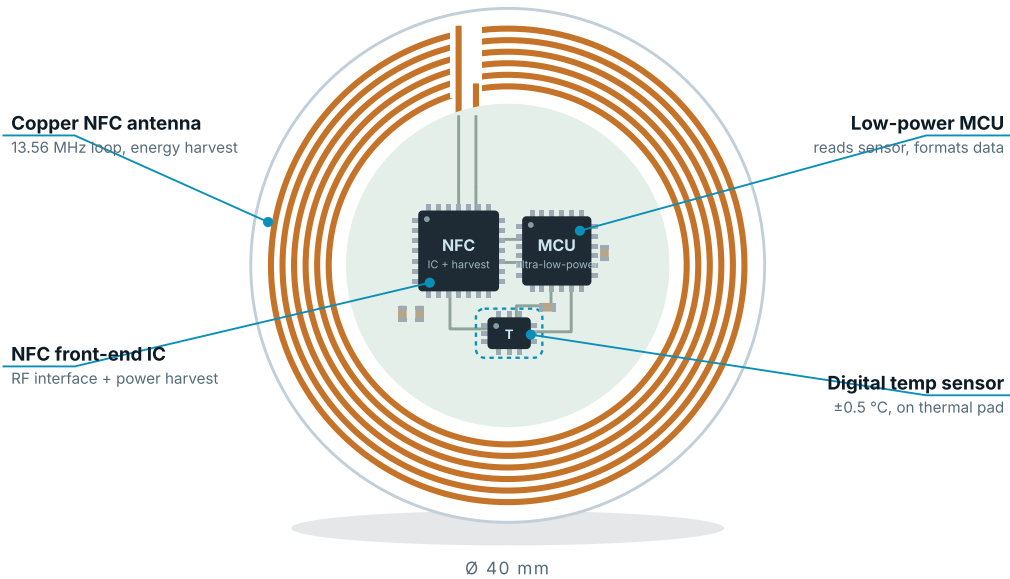
The MCU lets us add per-tag calibration, threshold alerts and custom data formats in firmware without redesigning the hardware.

TWO PHYSICAL LAYOUTS

Same electronics, two shapes.

Circular tag

ROUND · Ø 40 mm

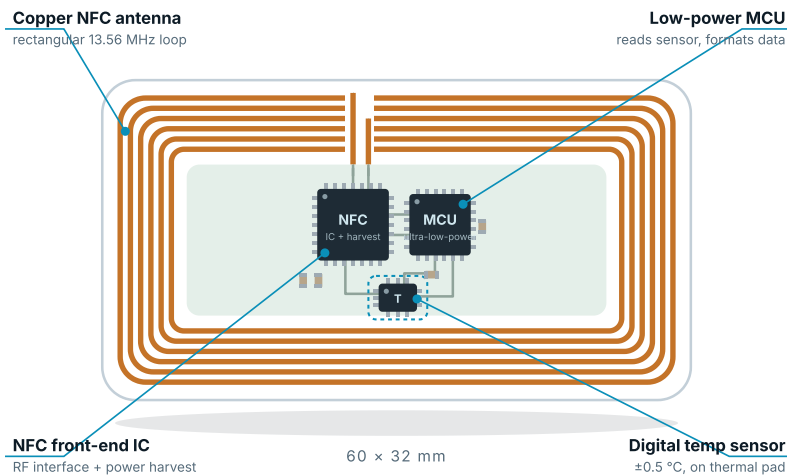


Fits caps, jar lids, vial trays and small cartons. The round antenna gives an even read response regardless of how the phone is rotated.

Sensor sits near the centre on a thermal pad that couples it to the surface through the adhesive layer.

Rectangular tag

RECTANGLE · 60 × 32 mm



Sits neatly beside shipping labels on cartons, pallets and insulated boxes. The larger antenna area makes it quick to find with the phone.

Face stock has room for product ID, batch number and a QR code alongside the NFC area.

WHERE IT'S USED

Built for handover checks.



Pharmaceuticals

Check 2–8 °C medicines at the distributor, chemist and hospital store.



Vaccines & biologics

Confirm cold-box contents before last-mile handover.



Frozen food

Verify that frozen stock is still frozen at receiving docks and retail.



Cold-chain logistics

Give drivers and receivers a shared, objective reading at each stop.



Labs & diagnostics

Spot-check sample boxes and reagent kits on arrival.



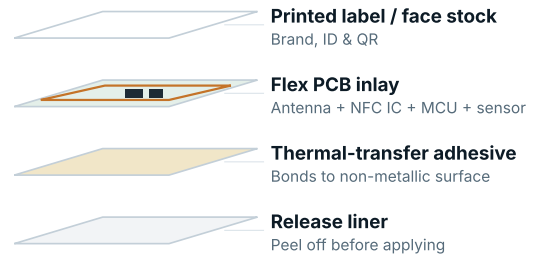
Dairy & perishables

Quick checks for chilled goods where a full logger is overkill.

SPECIFICATIONS

Temperature accuracy	±0.5 °C
Operating range	–25 °C to +70 °C
Display resolution	0.1 °C
Interface	NFC, 13.56 MHz (ISO/IEC 14443 / NFC Forum)
Reader	Any NFC-enabled smartphone
Read distance	Up to ~3 cm (phone dependent)
Power	Battery-free; powered by the phone's NFC field
Architecture	Discrete: NFC IC + MCU + digital sensor
Form factors	Circular Ø 40 mm · Rectangular 60 × 32 mm
Mounting	Self-adhesive, non-metallic surfaces
Data logging	Not required — on-demand spot reading

TAG CONSTRUCTION



Not for direct mounting on metal: metal detunes the antenna. Use a ferrite spacer or apply to the carton instead.

Pilot it in your cold chain

Samples, custom sizes, branding and firmware thresholds available on request.

creatronix.in