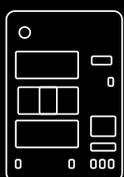


IoT Shortcut Technical Brief

Overview

The IoT Shortcut is a comprehensive, end-to-end platform designed to accelerate the development and deployment of cellular IoT products. The solution integrates all necessary components: a compact (20 x 25 mm), ultra-low-power hardware module, global cellular connectivity with an included SIM, a cloud data platform with API access, and a customizable white-label mobile app.

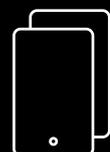
At its core, the pre-certified System-on-Module (SoM) is built on the Nordic Semiconductor nRF9151 SiP, providing global LTE-M and NB-IoT connectivity while consuming as little as 8 μ A in deep sleep mode, enabling multi-year battery life for typical IoT use cases. Complemented by an easy-to-use firmware SDK, the IoT Shortcut provides a complete, scalable solution for bringing connected products to market quickly and reliably.



Hardware

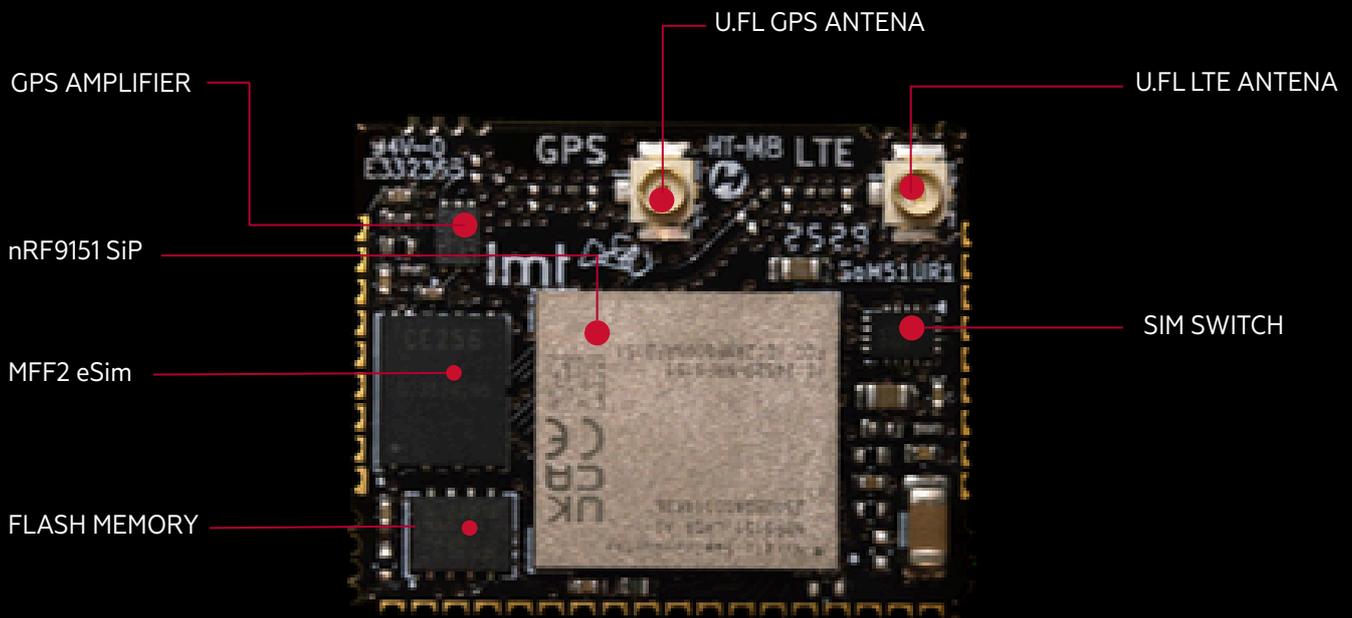


Cloud Data Storage



Whitelabel app

Hardware



Technical details

Dimensions	20 x 25 mm
Weight	Approx. 4 g
Operating voltage	3.0 to 3.6 V
Deep sleep current cons.	< 8 μ A at 3.6 V supply
Single upload energy cons.	90 mJ or 25 μ Wh (100 B payload, excellent signal)
Application processor	64 MHz ARM Cortex-M33
Processor memory	1 MB flash and 256 KB RAM *
RF output power	Up to +23 dBm (Power Class 3) and +20 dBm (Power Class 5)
Digital peripherals	I2C, SPI, UART, I2S
Analog peripherals	7x 12-bit 200 ksps , 4x PWM units
External memory	4 MB flash

Main features:

With LTE-M (Cat-M1) and NB-IoT (Cat-NB1/NB2) modem

Offers GPS location services

Supports satellite (NTN) connectivity as a backup when cellular connectivity is lost

Includes MFF2 SIM card with global connectivity out-of-the-box

SIM switch for using external SIM card

Zephyr-based firmware SDK

Simple integration with our cloud service

Secure and power-optimized protocol stack: UDP + CoAP + DTLS

Application notes:

- Features RF matching circuitry for best connectivity and power savings
- Two uFL connections for external antennas (GPS and cellular)
- An alternative version with an integrated GPS/cellular chip antenna is available for added flexibility
- Available in Tape-and-Reel packaging for SMT assembly
- Castellated pin configuration is provided for hand soldering or the SMT reflow process
- Other PCB implementations (M.2 connector, pin headers) and packaging available upon request

Integrated with our firmware SDK or easy data upload with minimal firmware development required

Manage devices (activation/deactivation), client subscriptions and their data consumption

Roll out device firmware-over-the-air upgrades

Role-based access control for security

Data visualization dashboards and data export

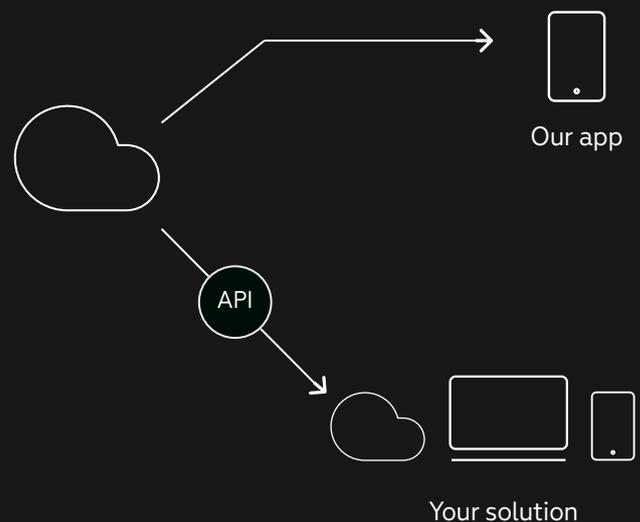
SMS alerts for data events (e.g. sensor measurement exceeds threshold)

REST API and Webhooks integrations available for cloud-to-cloud integrations or your custom mobile app development

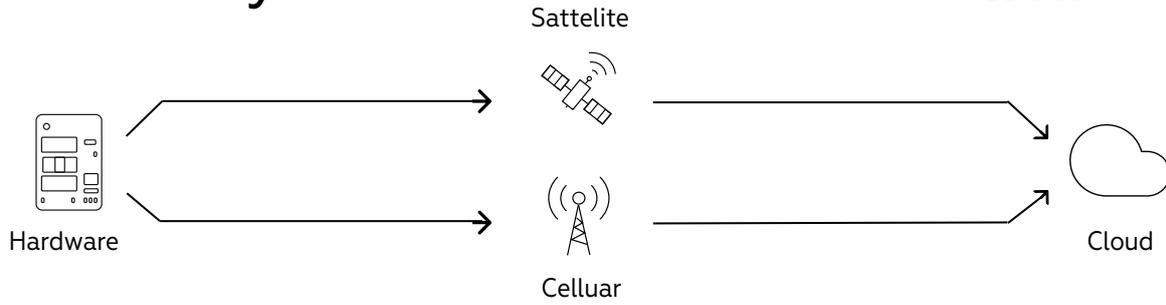
GDPR-compliant, and meets ISO 9001, ISO 14001, and ISO 27001 standards

White-label options available

Hosted in EU datacenters



Connectivity



Hardware includes MFF2 SIM card with global CAT-M1, CAT-NB1/NB2 (NB-IoT) connectivity out-of-the box

Outright deals for hardware+data or monthly/yearly consumption-based subscription deals available

Skip our provided connectivity altogether and use external SIM card if necessary (hardware features built-in SIM switch)

White Label App

Data history browsing, charts, and notifications for data events

Implemented using Flutter framework for rapid and seamless multi-platform delivery

White-label options with store deployment managed either by us or the client

