

Design Blocks

- Cellular IoT made easy

Small. Low Power. Reliable. Rugged.

Product Summary

The 'design blocks' hardware platform was developed with the latest LTE technologies (CAT-M & NB-IoT) and provides accessibility to wide range of applications and use cases. The system is designed to take full advantage of the energy efficiency possibilities associated with the new standards. Offering an unparalleled, optimized low power cIoT solution.

The design brings flexibility, reliability and scalability to your next cellular IoT product. The unique customizable application space (CAS) allows the team at Swift Labs to rapidly build a custom embedded design, specific to our client's requests.

Supporting 17 bands for global coverage, the antennas are tunable to provide increased coverage and band selection. This is critical to achieve appropriate cellular performance.

Integrated security features such as ARM's TrustZone and Cryptocell 310 technology ensures security is a top priority for your data.

Pre-certified in most tier 1 markets, Swift Labs experts will also ensure that your system-level certifications are complete.

Get Started on your next IoT Project

The 'Bolt' product will be available for purchase. 'Ex' and 'Lite' are intended to be used as a baseline for customization. Swift Labs are the premier design experts in embedded cellular solutions, Let's discuss your IoT challenge, and how we can get you to market faster.

Key Platforms

- 'Lite' - For size constrained designs
- 'Ex' – UL 60079 Intrinsically-Safe design PCB for extreme environments
- 'Bolt' – End Product certified
 - Maximum flexibility
 - Can be purchased through distributors

Solutions are customizable

- Our experts will design custom solutions, derived from our platform.
- Multiple Powering Options (5V, 24V DC_In, Non-Rechargeable)
- Custom housing design

Sensors

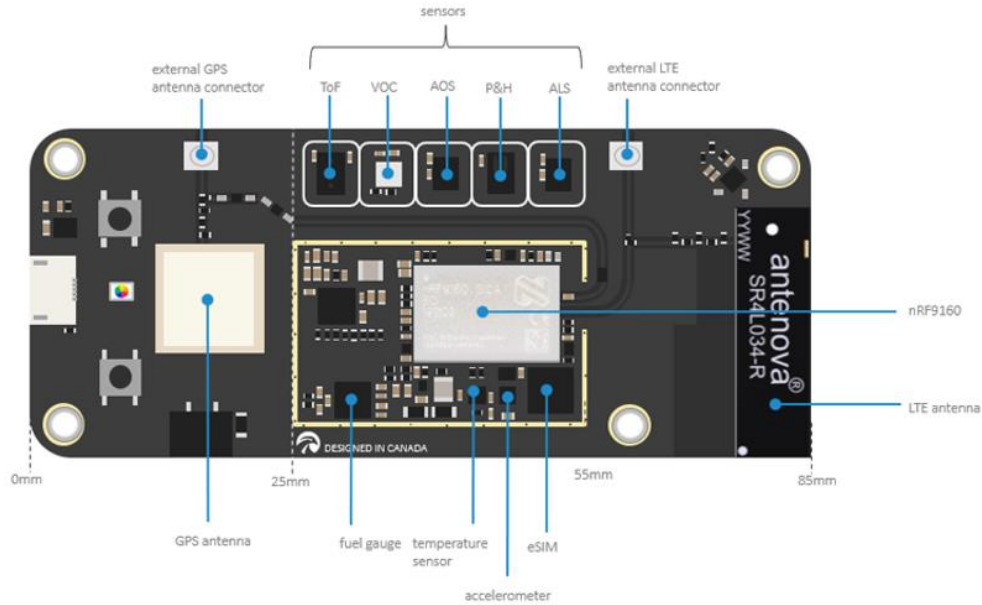
- 9-Axis Absolute Orientation
- Pressure and Humidity & Temperature
- Time of Flight
- Air Quality (VoC)
- Low-Cost Accelerometer
- Ambient Light Solution
- + Bespoke Solutions

Nordic NRF 9160 Specs

- 64 MHz Arm® Cortex®-M33 CPU
- 1 MB Flash & 256 KB RAM
- 700MHz-2200MHz LTE Band Support
- 23 dBm output power
- eDRX and PSM power saving modes
- UICC interface
- PSM Floor Current - 3uA
- eDRX Floor Current - 7uA

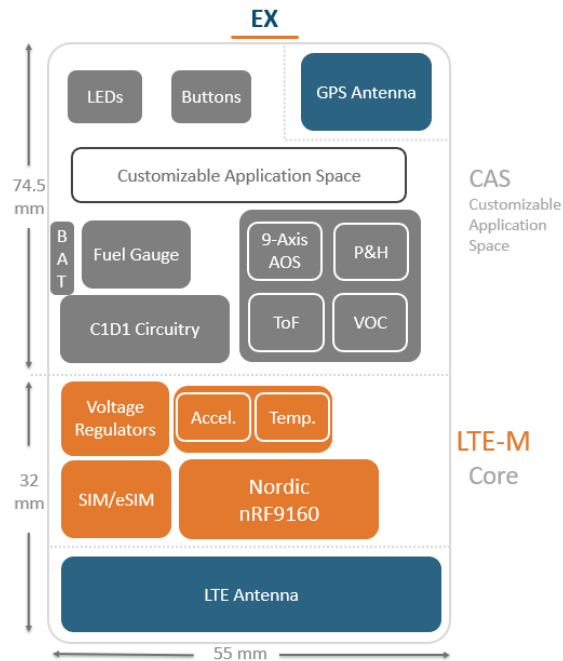
'Bolt'

The smallest Integrated antenna SOM design on the market, Bolt will be end-product certified for rapid time-to-market, and cost savings in certification. With a full sensor suite, Bolt can take any concept to market quickly with a verified design.



'EX'

Ex is our ruggedized, Intrinsically Safe-ready design. Intended to decrease time to market for and adhere to C1D1 design requirements. The Swift Labs' team, has ready-made design principles to bring our core product to system-level, certification & production.



Swift Labs - Your Partner in Design

- Electronics Design
- Firmware Development
- Mechanical Design
- RF Design

Swift Labs - Your Partner in Certification

- Certification Expertise & Management
 - Regulatory - FCC, ISED, CE, Global
 - Industry - PTCRB, GCF
 - Carrier – NA, EU Carriers
 - Environmental – IP, Vibration, Shock

Swift Labs - Your Partner in Manufacturing

- High volume Malaysian-based manufacturing and supply chain
- Lower volume local manufacturing & prototyping support