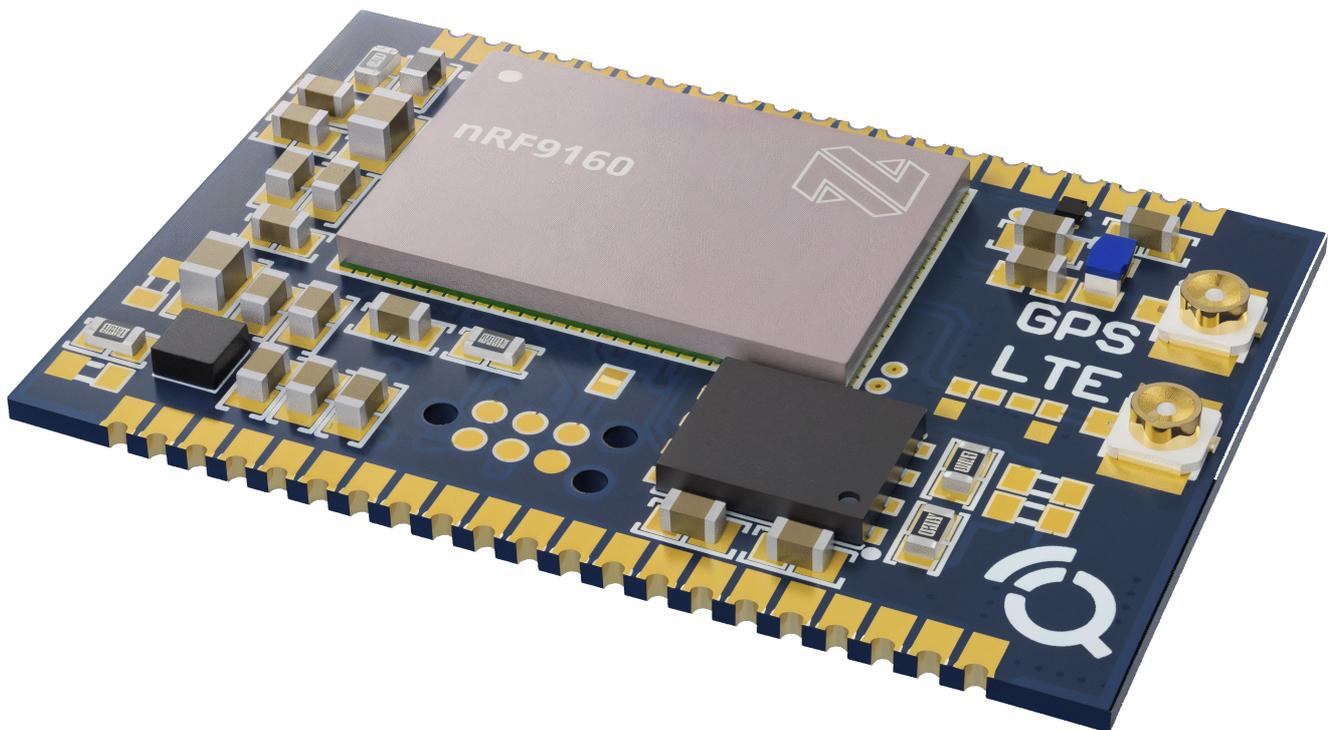


Communication Platform DECT & Cellular - TECHNICAL DATASHEET

General Description

Communication Platform

The Communication Platform is a compact and low-power electronics board that serves as a communication bridge between standard **wired** data protocols (UART, I2C, SPI) and various **wireless** technologies like DECT+ and LTE, complemented by integrated GNSS functionality for precise geolocation and tracking. With its integrated eSIM module and robust design, the platform is engineered for industrial environments, IoT applications, and telecommunications, ensuring secure and reliable data transmission and location services for any application.



Technical Specifications

Category	Details
Supported Protocols	UART, SPI
Wireless Communication	700–2200 MHz LTE band support, 1.9 GHz NR+ band support, GNSS
Data Transmission Speed	1 Mbps
Range	100 m (industrial environments)
Dimensions	32.6 mm x 21.7 mm x 1.92 mm
Power Supply	3V - 3.7V
Idle Energy Consumption	20 mW

Key Features

Protocol Interface

- **UART:** Standard serial communication, configurable for various applications.
- **SPI:** High-speed data transfer with flexible multi-slave configurations.

Wireless Technology

- LTE band coverage from 700 MHz to 2200 MHz.
- NR+ band support at 1.9 GHz.
- Reliable and robust transmission for interference-prone environments.
- eSIM module compatible with 2G / 3G / 4G (LTE) / CDMA / NB-IoT / CAT-M networks, with up to 7 connectivity profiles.

Integrated GNSS

- **Supported Systems:** GPS, GLONASS, Galileo, and QZSS for robust global positioning.
- **High Accuracy:** Designed for precise location tracking, even in challenging environments.
- **Power Efficiency:** Optimized GNSS mode for reduced energy consumption in IoT applications.
- **Applications:** Real-time tracking, geofencing, and location-based services in industrial and IoT deployments.

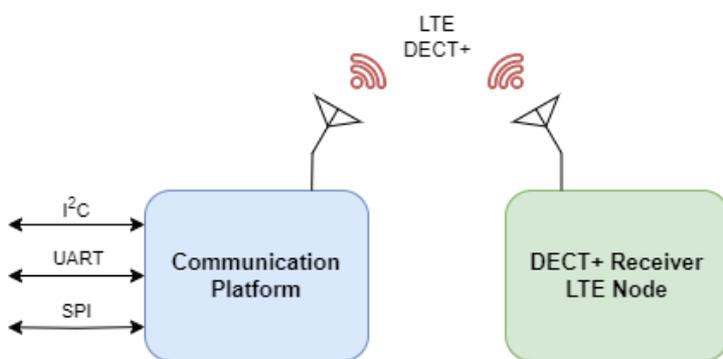
Compact and Scalable Design

- Small footprint for integration into constrained spaces.
- Broad compatibility with microcontrollers and embedded platforms.

Typical Applications

Industry	Application Examples
IoT and Automation	Wireless control of sensors and actuators
Telecommunications	Extending wired networks via LTE/NR+ transmission
Consumer Electronics	Interface for smart home appliances
Industrial Automation	Real-time monitoring and control

Block Diagram



This design enables quick deployment in existing systems, reducing development time and costs while providing robust and flexible connectivity solutions.

Contact Our Technical Team for More Information!