Our Expertise

System & Architecture Design

We provide flexible and tailored system design for diverse industries, including use case handling, requirement mapping and solution alternatives. Architecture design is our tool to provide the optimal architecture for the system.

Wireless Design

Our RF and antenna design services allow different approaches from utilization of off-the-shelf components to customized solutions, whatever meets the customer requirements best.

Software Design

Our long experience in the field of embedded devices is the foundation for providing high quality software development services to all embedded software needs. We provide world-class competence for example in RTOS and Embedded Linux.

Electronics Design

We have vast experience in designing analog, digital and mixed signal hardware, and we excel in designing battery operated, ultra-low power IoT-devices.

Mechanics Design

We have strong experience in designing mechanics for diverse industries. Our product concepting, design analysis, product development and manufacturing support services are tailored to meet unique customer requirements.

Bittium

Connectivity to be trusted.
bittium.com/engineering-services

Your Engineering Partner for IoT

Bittium

Your Engineering Partner

As pioneers in the wireless industry, we have been working in the IoT arena even before IoT was defined. We work in strong collaboration with our customers in turning their ideas to reality. Our experts adapt to the specific needs of your solution, match the right expertise for your needs, and together we develop world-class IoT solutions that serve real-world users and environments.

We offer end-to-end development services and have the capability to deliver all the necessary components of the solution, including devices with wireless communication, built-in security, and cloud connection capabilities. Our offering also includes internal laboratory and testing capabilities, as well as support and maintenance services for the durationg of product life cycle.

Innovation Since 1985

We have over 30 years of experience in wireless technologies, with an extensive track record in engineering, implementing, verifying and managing the development of innovative, purpose-built wireless devices which meet customer-specific needs.

Bittium is a forerunner in IoT and wireless wearable technologies, with over 300 development projects covering the major wireless protocols.

Founded in 1985	300+ Engineering Projects
Listed on the Nasdaq Helsinki (BITTI)	Headquartered in Finland
Offices in Finland, Germany, and the USA	

Selected Offering

Wireless Connectivity Solutions

Mastering different wireless radio and antenna technologies has always been our core competence. We have a proven track record with over 300 engineering projects covering the major wireless protocols from Bluetooth low energy and LTE NB-IoT to 5G, including custom radio systems development. Our extensive radio and antenna expertise ensures maximum coverage and data throughputs in today´s integrated multi-radio and antenna systems.

Customers benefit from our design experience on different cellular modem chipsets and module-based product designs, radio networks know-how in overall system optimization and in-house RF and antenna test laboratories to speed up development.

High-Quality Embedded Design

We can help you to accelerate the IoT industry evolution by designing reliable embedded connected devices that can operate also in harsh environments. By leveraging our comprehensive expertise in sensor integration, power optimization, wearable device development and embedded software development (e.g. Yocto Linux and FreeRTOS), we are able to create revolutionary IoT devices and solutions for industry-leading companies. As the majority of our designs are for small form factor devices running on internal battery we have the knowledge to make right design solutions to ensure targeted operating time.

End-To-End Security Development

The strength of a chain is always defined by its weakest link. The same applies also to the security of an IoT system. All parts of the system must have in-built security in order to secure the entire system.

Bittium has decades of experience in how to design system level security from threat analysis and secure software boot process with hardware security into creating a secure zone when operating over cellular networks and internet. Bittium SafeMove® product portfolio includes both secure connectivity and MDM solutions which can be integrated with customer's systems.

Development Partner for Major Brands

adidas

GE Healthcare

iLOQ

KONE

NOKIA

PHILIPS