

Our Expertise

Wireless Design

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

Mechanics Design

We have strong experience in designing mechanics, selecting the correct materials, and integrating sensors. Our product concepting, product development, and manufacturing support services are tailored to meet unique customer requirements.

Electronics Design

We have vast experience in designing hardware, and we excel in designing battery operated, ultra-low power wearable devices. We have well-established relationships with all key suppliers on the field.

Software Design

Our long experience in the field of embedded devices is the foundation for providing high quality software development services to wearable devices. Our know-how enables long operating times and best possible user experience.

Testing & Verification

Our comprehensive internal laboratory capability and good partnerships with external test houses ensure extensive coverage for product testing. We can provide global market access for your products.

Bittium

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

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Your Engineering Partner for Wearables



Bittium

Engineering Partner for Unique, Purpose-Built Wearables

Bittium is your trusted partner in developing innovative, high-quality, and reliable wearable devices.

Our extensive experience from wearables for different use cases can help at every stage of product development, from technology consulting and concept strategy to turnkey solutions. With us, you are able to bring the new device to the market as planned.

Innovation Since 1985

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

Bittium is a forerunner in wireless technologies, with over 300 engineering projects covering the major wireless protocols from BLE to 5G and to proprietary waveforms.

Founded in 1985

300+ Engineering Projects

Listed on the Nasdaq Helsinki (BITTI)

Headquartered in Finland

Offices in Finland, Germany, and the USA

Selected Offering

Combining Technologies & Materials as an Impressive Wearable Experience

We help you to develop innovative wearable devices by providing extensive know-how in all the relevant areas, including mechanics, sensor integration, and material selection.

Our world-class experts can support you with high-quality embedded design, hardware, and software know-how. We offer joint and transparent development models, fast and cost-efficient production testing, as well as support for the whole product lifecycle.



Wireless Connectivity for Power-Optimized Devices

Optimized wireless connectivity and power consumption are some of the most important considerations when developing innovative wearables for any use case.

Leverage our comprehensive expertise in radio and antenna technologies and experience from applying the know-how to wearable device development. We help to ensure maximum coverage and data throughputs for your wearable device.

High-Quality Medical-Grade Devices

Our extensive experience from development of medical-grade, connected devices helps to optimize the time-to-market for your new wearable. We are ISO 13485 certified and you can trust us to verify and validate the product according to the applicable medical standards.

We have excellent in-house test laboratory capabilities for mechanical & environmental testing, antenna measurements, RF & signaling / protocol pre-performance, and many additional areas. We can also handle pre-certification & certification for the products & solutions.



Development Partner for Major Brands

Bittium has a proven track record from being the main engineering partner for several major brands in their wearable development projects. Our expertise has enabled development of high-quality, purpose-built wearables in cooperation with Philips and adidas, for example.

PHILIPS

