



WIRELESS COMMUNICATION

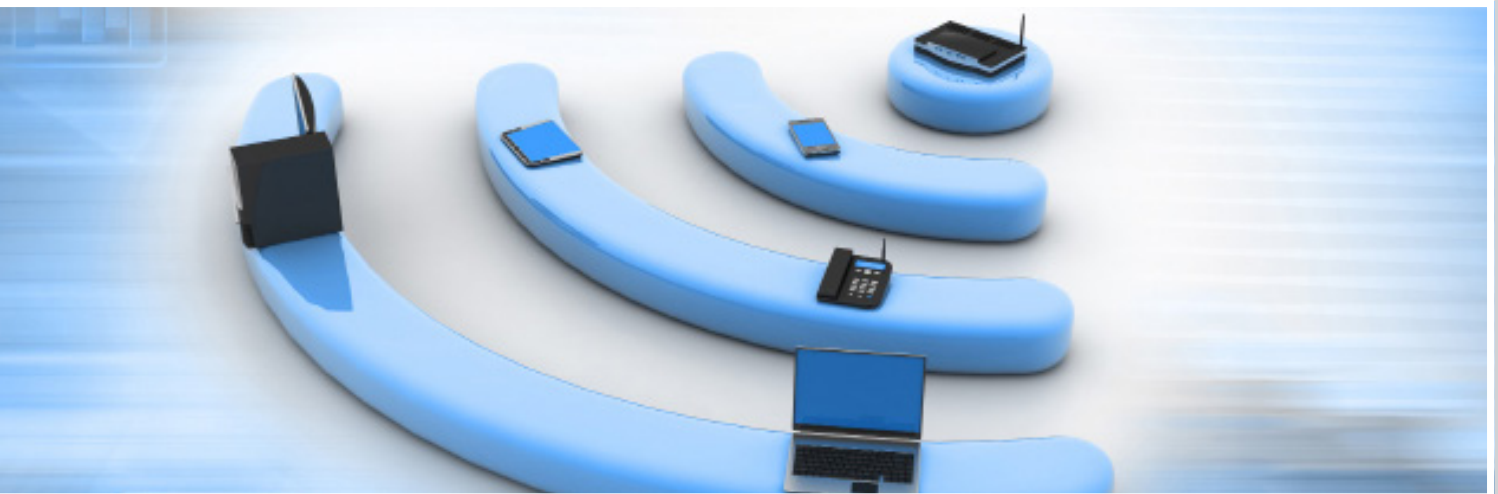
LCM designs, evaluates and installs modern wireless communication systems. The intelligent interaction of hardware and software forms the basis for developing real-time, energy-efficient solutions for a wide range of applications.

YOUR BENEFITS:

With LCM, you can rest assured that your wireless communications project is in the safest hands. From concept through evaluation using simulation to implementation, our experienced team will be with you every step of the way. We are your competent partner for short and long-range wireless communications, with solid experience in using both standardised and custom-made protocols. As the most crucial part of ensuring successful applications, we place great value on selecting the right technology, whether for consumer or industrial use.

Short delay times between the transmitter and receiver, transmission security, synchronised and distributed calculations, real-time availability and energy efficiency are the key criteria. Our advanced expertise in ultra-low-power microcontrollers and micro radio chips ensures energy efficiency in sensor data acquisition, on the one hand, and low-power transmission for a long-lasting to permanent autonomous operation of the radio sensor units, on the other hand.





OUR EXPERTISE INCLUDES:

- Years of experience in design, evaluation, implementation and optimisation of wireless communication systems
- Efficient solutions for a wide range of applications. From short-range radio systems to mobile technology, from the consumer sector to industrial applications, and from standardised to customised protocols
- Optimisation of real-time wireless solutions, response times or power consumption
- Co-design of hardware and software
- Experience with the most powerful and popular microcontrollers, digital signal processors, radio chips as well as active and passive RFID systems
- Development of custom-made, miniaturised boards with radio unit

CURRENT REFERENCES:

Our expertise can be demonstrated by numerous projects that we have undertaken in the field of wireless communications for customers in a wide variety of sectors. This is just a small selection of our references:

- Energy-efficient wireless communications in circular looms between mobile brake motors and the primary control
- Wireless, heart-rate-controlled load control for electric bikes in the health sector
- VibraCheck - autonomous GSM-based condition monitoring system
- Automated recording of business travel and working hours
- Synchronised sensor data acquisition with kHz sampling and high data throughput