



MEDICAL

WÜRTH ELEKTRONIK MORE THAN YOU EXPECT

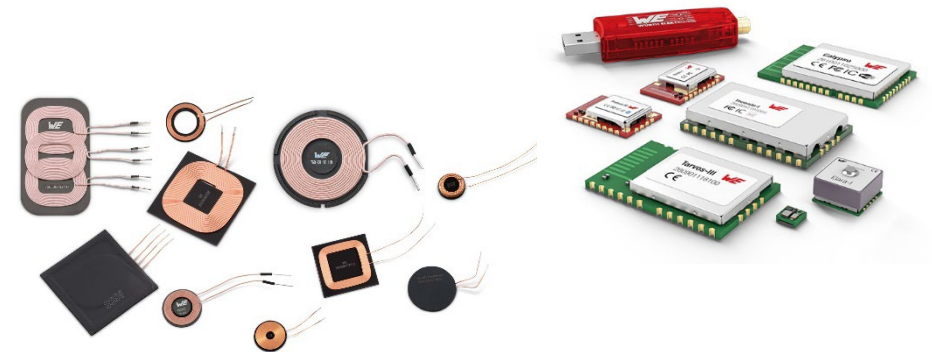
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Medical and Würth Elektronik

In medical technology, contactless energy transfer offers numerous benefits. Special requirements for hygiene and sterility of medical devices apply here, while the devices and systems must also be resistant to harsh cleaning agents and chemicals. Contactless energy transfer eliminates the need for special connectors with (for example) particularly good seals. Since increasing amounts of data are transmitted wirelessly – e.g. via WiFi, Bluetooth, etc. – transferring the required energy wirelessly as well is a sensible development.

The products from Würth Elektronik focusing on wireless to be hygienic and efficient are:

- [Wireless Power Charging Coils](#)
- [WiFi](#)
- [Bluetooth](#)
- [LTE](#)
- ...



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Disinfecting with ultraviolet light

Würth Elektronik offers [UV LEDs](#) with emission wavelength of 275nm. This wavelength kills germs, by destroying the RNA structure of Viruses and Bacteria. Therefore, those type of LEDs are suitable for disinfection in areas where chemical components are not suitable to use. This can be devices for germicide cleaning of different surfaces, or also for air and water disinfection. Because of its compact size, lower driving voltage, short switching time and robustness, they are the preferred choice to the standard UV-C tubes. Würth Elektronik eiSos offers with the UV-C-LEDs one more technical solution for the growing needs of disinfection systems.

“Our LEDs are built to maximize the efficiency output. We can achieve this by better light extraction, due to highly transparent quartz glass. In addition, low thermal resistance ceramic substrate to reduce heating effects in the chip and increase lifetime. Finally, we use gold plating, for better soldering and contact surfaces” says Zhelio Andreev, Product Developer at Würth Elektronik eiSos. “The application areas have bright portfolio, from the medical hygiene, and water and air purification, up to food and surface sterilization. We are looking forward to help our customers in their projects, and offer our technical service and support.”

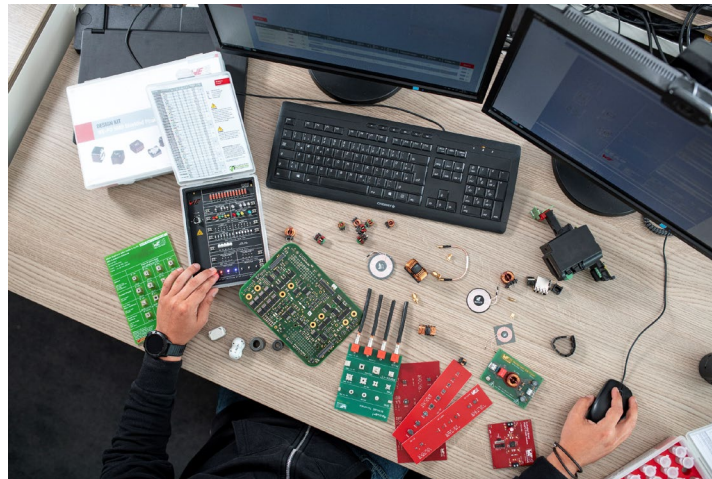


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Würth Elektronik Components

WE has [quality](#) centers all over the world with Measurement, Environmental and Analysis Laboratories to ensure the products are tested and certificated properly.

Reliable and robust products to ensure a high lifetime. Or for example to prevent data loss in the event of a power failure, for critical network devices or in medical technology – products like the [supercapacitors](#) are durable components for short-term power supply.



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Further Information

Application Notes:

- ANP070: [Proprietary wireless power transfer solution for high performance including data transmission](#)
- ANP032: [High Power Wireless Power Transfer for the Industrial Environment](#)
- ANO008: [Disinfection with UV-C LEDs](#)

Videos:

- [Desinfection with UV-C LEDs](#)

Press Release:

- [Innovative drone project for medical care](#)