■ PASSIVE COMPONENTS → Signal & Communications → Additional Information

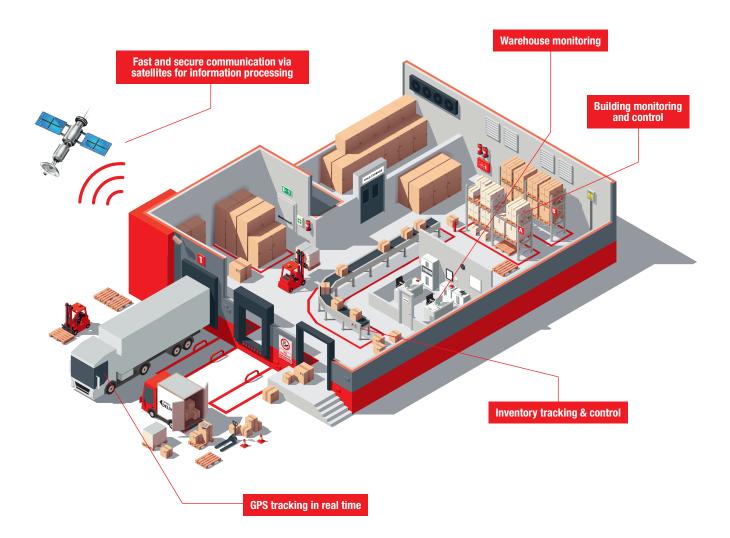
### **Internet of Things (IoT)**

#### What is IoT?

Internet of things is a summarizing term for the next generation of smart devices that can transmit/receive data over a network autonomously. IoT devices and the data they generate, provide much needed connectivity for a range of new applications and have profound effects on our private and social life. Some of these applications include:

- Industrial automation
- Healthcare & fitness
- Home automation
- Smart cities & smart energy
- Smart farming/agriculture

Industry 4.0 or the Industrial IoT (IIoT) is the digitization of industrial assets and processes that connects products, machines, services, locations/sites to workers, managers, suppliers, and partners.



One of the applications of IoT is the tracking of goods and shipments in a warehouse. Having full knowledge of where everything is located at any moment, makes the warehouse much more efficient resulting in saving time and money.

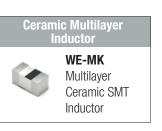


### **Component Overview**

The Würth Elektronik RF portfolio covers a wide variety of frequency ranges starting from KHz all the way up to several GHz bands. Here are some of the product series that can be easily integrated into your loT device.

# Antenna WE-MCA SMD multilayer chip antenna















See our complete portfolio: www.we-online.com/rfcomponents



## Application Example: Plug-and-Track GPS Device Based on the Latest GPS Technology



- Providing ultra-fast acquisition / reacquisition thanks to the exceptional efficiency of our antennas and the perfect matching circuit.
- Exceptional tracking sensitivity for tracking and navigation in difficult signal environments while using our filters and customized shielding solutions.

### **Get Your IoT Device Matched!**

Antenna Matching Service

- Optimized antenna performance
- Customer support for antenna placement in design phase
- Smallest antennas with less ground clearance requirements





More information about Antenna Matching: www.we-online.com/antennamatching



Application Note WE-MCA Multilayer Chip Antenna Placement & Matching: www.we-online.com/ANP057