DIGITAL TECHNOLOGY : **Wireless Connectivity for Industrial IOT**

DESCRIPTION?

Wireless connectivity is key pillar for Internet of Things and Industry 4.0! For more than 20 years CSEM has supported the industry to develop robust and ultra-low power connectivity solutions in a wide range of applications. Connecting wearable sensors to a smart phone via Bluetooth; designing a miniature antenna for a wireless hearing aid; short-range connectivity to read out data from a medical implant; networks of distributed autonomous sensor with hundreds of sensors for structural health monitoring; real-time networks for safety systems…

Our expertise covers the design, the implementation and evaluation of complete wireless systems, the standard or customised communication protocols, the miniature antennas and optimised energy management. Foremost, CSEM can help you navigate the landscape of standards and frequency bands to select the best fit…

FUNCTIONALITIES & CHARACTERISTICS

- Connectivity solutions optimised for specific applications and use-cases
- System analysis from A to Z
- Robust communications for harsh environments
- Point-to-point or mesh networks
- Self-configuring, self-healing autonomous networks
- Built-in security from A to Z

EXAMPLE OF APPLICATIONS

Wearable sensors, Medical implants, Industrial automation, Home automation, Cable replacement, Autonomous sensors for structural health monitoring, Distributed sensor networks for agriculture

UNIQUENESS

Designing a wireless connectivity solution can be a daunting challenge, especially for companies new to wireless. CSEM is able to translate functional requirements into system specifications and optimised solutions.

CSEM is an acknowledged reference in ultra-low power wireless communications as well as high-reliability solutions, even in harsh and highly metallic environments.