aartesys

AarteWAN – LoRa Gateway of the Second Generation

The use of the network protocol LoRaWAN™, which is based on the de-facto industry standard LoRa, is increasingly expanding. In cooperation with North-American chip manufacturer Semtech Corporation, Aartesys is now launching a LoRa gateway of the second generation – a world's first.

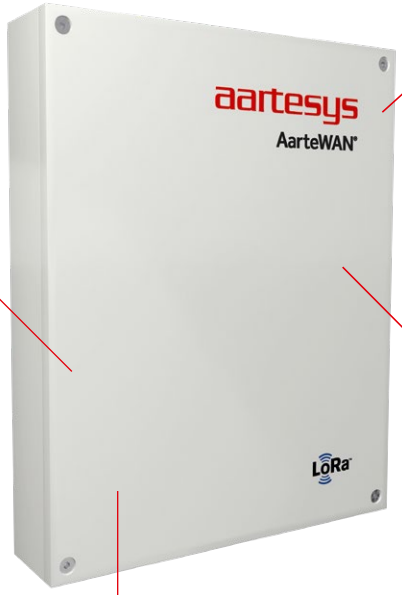
Wireless for the IoT

The so-called Internet of Things (IoT) requires the wireless connection of a variety of different devices, installations and machines. Long-range wireless technology is increasingly gaining in significance as a cost-effective alternative to the GSM network. A LoRaWAN™ has a star-shaped architecture. The different devices communicate via wireless radio frequency with base stations, which in turn are connected with network servers.

The LoRa gateways used as base stations reach end devices and sensors within a distance of up to 20 kilometres, and this even inside buildings and – for shorter distances – even in basements. The wireless technology consumes only very little electricity, which has a decisive impact on the life of the sensors.

Benefits of AarteWAN

The now available AarteWAN LoRa gateway offers convincing advantages over conventional devices and over GMS based solutions:



No wireless license

LoRaWAN™ applications do not require a wireless license.

Position localisation

Triangulation permits the localisation of sensors, and this without GPS.

Remote maintenance

As it comes with the integrated EasyGateway®, the AarteWAN LoRa gateway can conveniently be remote-controlled and updated with a new software, for example.

Affordable

AarteWAN can capture a large number of devices at a highly affordable price.

Wide range of different applications

A large number of LoRa applications has already been implemented internationally. Telco companies are building LoRaWAN™s in parallel to their other networks to facilitate low bit rate machine-to-machine communication, for instance. Postal companies track shipments or place sensors in post boxes. Energy supply companies rely on LoRaWAN™ for meter reading and for home controls. In addition, the technology provides the option of monitoring cooling chains, makes the search for a parking space easier, can be used to control health apps, query the fill level of garbage containers, or determine the location of animals. This non-exhaustive list of potential uses only gives an idea of the vast possibilities.

Interested?

If you wish to learn more about AarteWAN, please visit our website where you can find a technical datasheet of our LoRa gateway. Or even better: Contact us to make an appointment so that we can discuss an ideal solution tailored to your project.

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aartesys

www.aartesys.com

Aartesys AG
Silbergasse 32
CH-2502 Biel-Bienne

Tel +41 32 327 35 35
E-Mail info@aartesys.ch