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## Endrich Bauelemente Vertriebs GmbH success on the International Plovdiv Technical Fair

**In the previous issue of the magazine we have been talking about our participation on the 76. International Technical Fair in Plovdiv, where we were about to introduce our multi-award winning IoT Eco-System, the E-IoT platform, which actually supports our major offering to our partners described by our 2022 year slogan “We MAKE YOUR DEVICE SMART”. Smart features of devices support predictive maintenance, optimize energy consumption, and support remote monitoring. But not only that, we can call this ecosystem to support our everyday healthy life. As the Plovdiv fair was for us a special occasion, here we have introduced our new IoT device, the so called cityBox device, which is an air quality detection device, sending the characteristics of the air quality constantly to a Cloud database to provide local authorities with reliable data automatically with sampling and uploading data in every two minutes in 7/24 operation.**

Endrich GmbH - a leading electronics component distributor and design-in house - has developed an online sensor network infrastructure, where each hardware components belong to manufacturers represented by the company. A series of technical writing have been published in South East European Industrial Market to give the readers a closer look at to Endrich's IoT platform and ecosystem, offering a possible cooperation between IoT developers and the leading component distributor on the field of “smart devices”. We intended to talk to the Bulgarian professionals in order to see whether we can integrate our IoT services into national Bulgarian technical products, requiring predictive maintenance, being part of smart network or meeting requirements of Industry 4.0. We did not only show the concept on our Booth at the Plovdiv Show, but also intended to exhibit a few of the finished product derivatives out of the concept, amongst others the Smart City Box, designed for monitoring air quality of urban area. This latest product debuted in Plovdiv, this had been the first show where it was promoted to the audience.

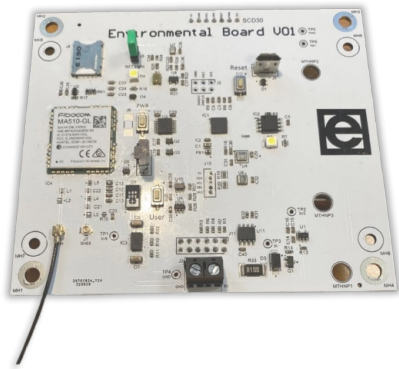
The E-IOT ecosystem is extremely popular in western Europe, the concept

itself and the derived products have won by today several prizes, amongst others the 2022 German Innovation Award. We also felt necessary to weight it on the International Gold Medal and Diploma Competition of the Plovdiv International Technical Fair.

## About the device itself...

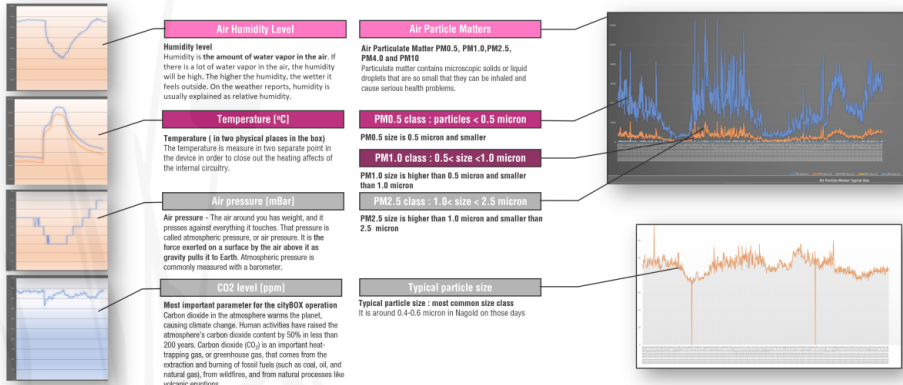
It is a solar panel driven single board computer with integrated air quality measurement sensors, such as air particle sensor, carbon dioxide, nitrogen oxide, humidity and temperature sensors as well as the possibility to connect external wired and/or wireless sensors. The city box communicates to the Endrich Cloud via the Internet through 2G/ NarrowBand (NB-IoT or LTE-M) GSM channel.

The international technical fair in Plovdiv, as the most famous exhibition of the South-Eastern European and especially the Balkan electronics market, gave us the opportunity to finally get into personal contact with the local market participants, after years of regularly publishing in the local technical media. Probably thanks to this, the E-IoT concept received a very positive



## E-IoT application : euroLighting GmbH cityBox v01

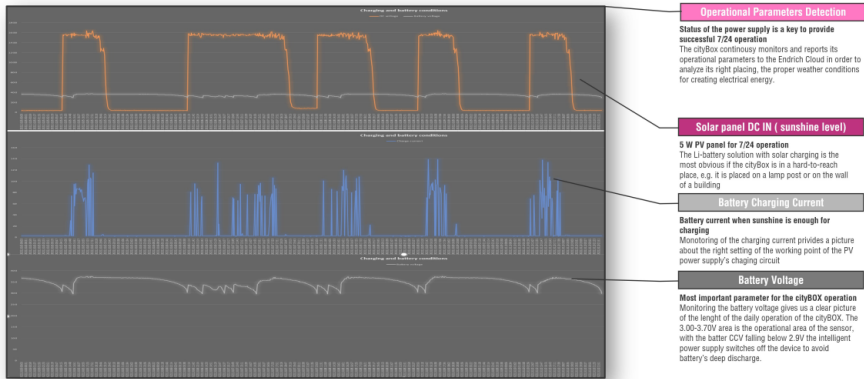
The cityBox's built-in sensors primarily enable gas-detection (CO<sub>x</sub>, NO<sub>x</sub>) and the measurement of the concentration of airborne particles of different sizes (soot, dust, smoke, pollen), and are also suitable for detecting air pressure, temperature, light and sound conditions, as well as vibration.



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The cityBox, an independent, 24/7 IoT device primarily suitable for air quality monitoring. Its built-in sensors primarily enable gas-detection (CO<sub>x</sub>, NO<sub>x</sub>) and the measurement of the concentration of airborne particles of different sizes (soot, dust, smoke, pollen), and are also suitable for detecting air pressure, temperature, light and sound conditions, as well as vibration.



reception here as well and won the gold medal of the fair, which we received at the official award ceremony in the "Plovdiv" hall of the local Congress Center in September.

"The gold medal of the International Technical Fair is the highest market award in the Bulgarian industry and represents an indisputable prestige in the portfolio of the awardees," said Prof. Dr. Ivan Sokolov, General Director of the Plovdiv International Fair, in his welcome speech. He highlighted the intellectual and applied scientific aspects of the 76th edition of the fair and emphasized that today's innovations in the industry ensure tomorrow's social well-being."

The Bulgarian and international visitors have been very much interested, we succeeded to make a few really

interesting leads, and we were quite satisfied with the results. Winning the GOLD MEDAL has been a nice surprise to us, showing that the E-IOT concept has been weighted also in Plovdiv positively.

