ELTEC Elektronik presents third generation of its wireless access points

Higher Wi-Fi data rates, 10 Gbps Ethernet backbone and MU-MIMO support

Mainz, September 11, 2018 – At the InnoTrans 2018 (Hall 6.1, Booth 225), ELTEC Elektronik is presenting the CyBox AP 3-W – the company's third generation of its CyBox access points. They allow multiple WLAN-enabled devices in a passenger train, bus or on the subway to communicate with the Internet or access local data, such as schedule information, videos, etc. The extended features compared to the previous generation include among other things higher Wi-Fi data rates with MU-MIMO support and an Ethernet backbone with up to 10 Gbps.

The access point enables the simultaneous operation of two WLAN radios in the groundbreaking IEEE802.11ac Wave 2 standard with data rates of 2 x 1700 Mbit/s. In addition to higher data rates, Wave 2 also supports multi-user MIMO (MU-MIMO). MU-MIMO allows a Wi-Fi router to communicate with several devices simultaneously. This reduces the time that each device has to wait for a signal and significantly increases the speed of the network.

In order to be able to use the bandwidth of both Wi-Fi radios, the new CyBox AP 3-W has an optional 10 Gbps Ethernet uplink configurable via SFP modules. The CyBox AP 3-W works with a powerful QorIQ. It offers ample performance reserves to also attain sufficient throughput rates when the WLAN standard evolves further.

All Wi-Fi access points by ELTEC offer a high level of security and user-friendliness: A configurable firewall protects the individual users' private data against unauthorized access and supports the secure and interruption-free data exchange with the Internet. The CyBox AP can be flexibly configured via the convenient user interface or by SNMP commands. Besides setting up global parameters, it is possible to completely configure the WLAN interfaces, including channel selection, SSID, encryption, firewall settings, etc.

All electronic components with expanded temperature ranges permanently withstand extreme temperature fluctuations. Moreover, the components are particularly stress-resistant when it comes to shock, vibration and humidity. The CyBox AP 3-W meets common industrial standard specifications and has been qualified according to current railway standards, e.g. EN 50155 compliant, by accredited test laboratories.

For more information, please visit the company's website www.eltec.com.

ELTEC Elektronik AG

ELTEC Elektronik AG is domiciled in Mainz, Germany. The enterprise offers networking and imaging solutions for mobile applications in rough environments – made in Germany. As one of Europe's technology drivers, ELTEC develops application-oriented system solutions based on innovative hardware and software for a broad spectrum of applications in the fields of transportation, mobile automation as well as industrial and medical applications. Its focus is on networking, communication, imaging, and automation technology. The comprehensive product portfolio includes wireless access points, media servers, data concentrators, displays, switches, intelligent cameras, image processing systems, frame grabbers, CPU/SoC boards, and industrial PCs. ELTEC develops and manufactures in compliance with CE and ISO 9000-certified quality standards and supports common industrial standards in the certification process.

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