ELTEC Elektronik enables unlimited and safe surfing in automotive applications

CyBox RT 2-A extends wireless access point family with dual LTE/Wi-Fi router for automotive electronics

Mainz, August 26, 2019 – ELTEC Elektronik expands its successful family of wireless LTE routers with the CyBox RT 2-A, i.e. a stable and reliable dual LTE/Wi-Fi system for automotive solutions. The new high-performance system combines a wireless router, access point and integrated switch in a compact and robust housing. This allows unlimited Internet surfing and data exchange with the control center for mobile applications in buses, trams and trucks. In addition to the 1 GbE interface, additional interfaces enable the connection of vehicle-internal bus systems (CAN, IBIS, OBD-2, RS232 and RS485).

With this new router, for example, efficient fleet management can be implemented. Optimum capacity utilization can also be achieved by transmitting and controlling passenger numbers. Operators benefit in the form of cost reductions and better service.

The CyBox RT 2-A supplements the proven ELTEC family with gateways and routers for railway applications. It is specially designed for automotive applications but is also perfect for demanding industrial applications.

With the integrated WIFI access point (up to 2 x 802.11 ac with 1300 Mbit/s and 3x3 MIMO each) and the two LTE interfaces (Cat 6/2 x 300 Mbit/s download and 2 x 50 bit/s upload) the CyBox RT 2-A can also be used as a head station for mobile Wi-Fi compatible devices in a bus or tram. There, it provides communication with the Internet or access to local data such as timetable information, videos, etc. The integrated configurable firewall with client isolation prevents the respective users from accessing other clients in the network.

Essential Design Features

The CyBox RT 2-A supports Wi-Fi and GSM/UMTS/LTE modems and has two LTE modules. Two SIM slots per LTE module enable convenient operation with several mobile phone operators for optimum network coverage. Thanks to the design without rotating mechanical parts and the low power consumption, this product is maintenance-free. The robust IP40 housing requires no active cooling and is highly resistant to shock and vibration.

Several Ethernet devices can be connected using the integrated 5 x 1 Gigabit Ethernet switch (via RJ45). The CyBox RT 2-A also has a USB interface and optionally an internal SSD for storing local data. The geographical position can be tracked by means of an integrated GPS/GLONASS receiver.

The CyBox RT 2-A was developed with automotive requirements in mind, providing all necessary functions on a single board with an additional interface module. Different mounting variants are available. For easy installation, all status indicators are located on the front panel. An easy-to-use web interface
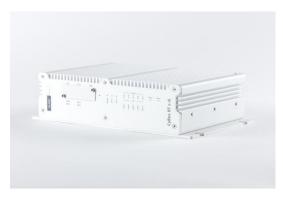
allows secure remote access for updates and convenient configuration of the router. All source codes are delivered with the OpenWrt operating system software for a transparent and secure system without 'hidden backdoors'.

The new router with its wide-range power supply meets the requirements for E1 approval. It operates in an operating temperature range of -40 °C to +75 °C.

ELTEC offers a warranty of 24 months for this new automotive router, which can be extended to 60 months. Customers receive a highly reliable solution which is developed and manufactured in Germany.

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

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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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