

## Three-in-one router

**Eltec Elektronik expands its family of wireless LTE routers with the Cybox RT 2-A, i.e. a dual LTE/Wi-Fi system for automotive solutions. The system combines a wireless router, access point, and integrated switch in one housing.**



(Source: Eltec)



The product 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 such as CAN, EIA-232, EIA, 485, Ibis, and OBD-2.

With this 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, said the company.

The product supplements the company's family with gateways and routers for railway applications. It is specially designed for automotive applications but is also suitable for demanding industrial applications.

With the integrated Wi-Fi access point and the two LTE interfaces, 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.

The device 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. Due to the design without rotating mechanical parts and the power consumption, this product is maintenance-free. The IP40 housing requires no active cooling and is 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 device 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 installation, all status indicators are located on the front panel. A 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 router with its power supply meets the requirements for E1 approval. It operates in an operating temperature range of -40 °C to +75 °C. Eltec (Germany) offers a warranty of 24 months for this automotive router, which can be extended to 60 months.

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