

SIX PORTS

## Railway computer upgraded with CAN FD

**Syslogic has reengineered its railway computer RSL 81 to make it fit for future railway applications. Besides Classical CAN, the company added CAN FD for the computer.**



(Source: Adobe Stock)

The rolling stock computer has a new motherboard and features a latest generation CAN controller, explained the company. Besides Classical CAN (ISO 11898-2 and ISO 11898-3), it also supports CAN FD now. The CAN application can be configured that it receives only data and does not send message. This prevents diagnostic data from interfering with the control system, for example. There are up to six CAN interfaces available. Other features are an M.2 interface that can be used to connect 5G modules as well as a conjunction with x-coded Gigabit Ethernet ports.

The computer meets the standards of the railroad industry, including EN50155, OT4, as well as the fire protection standard for railway vehicles EN45545-2 HL3. Upon request, the computer is available with an UPS (uninterruptible power source) system. It supplies power to the computer for several seconds in the event of power failures. It allows important data to be stored or transmitted to the cloud.



According to the German company, the railway computer is used by railway vehicle manufacturers and operators worldwide (Source: Syslogic)

The product, including the ignition controller, can be configured via power inputs for DC voltage between 16,8-V and 137,5-V. Optionally, the railway computer can also be configured with 4G/LTE (UMTS/GSM fallback). Among other things, it enables GNSS function. This feature gives the computer positioning accuracy of one to two centimeters via RTK (real-time kinematic) surveying. Moreover, the railway computers are often rack-mounted into a 19-inch system. The connection to typical railway networks, such as CAN, real-time Ethernet, TCN, WTB, Profinet, or MVB, occurs via optional expansion cards, which can be integrated.

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