CAN *Newsletter Online*

INNOTRANS 2018

EN50155-certified embedded systems for railway industry

Syslogic showcases its portfolio of EN50155-certified railway computers at Innotrans 2018 in Berlin, Germany. They are used in rolling stock applications as well as for tunnel and route monitoring.

Because Syslogic develops and manufactures its own embedded systems, they can be adapted to specific requirements (Photo: Syslogic)

The company presents its railway portfolio at the railway trade fair, which will take place in Berlin from 18 to 21 September 2018. The latest generation of railway computers can be deployed as data-loggers, PIS computers (passenger information system), IoT gateways, rail control units or for remote access.

Besides traditional in-vehicle computers, the company also offers with the Compact M series Box PCs for off-train applications. The fanless Box Pcs come with E3825 or E3845 processors from Intel Atom, which makes them suitable for continuous operation. They are frequently used for traffic or tunnel monitoring and to report track availability. The embedded PCs boast a particularly sturdy build and a unique interface pinout. The devices include CAN, USB, EIA-232, and EIA-485 interfaces.

The company offers a complete range of industrial computers and HMI systems specifically designed and manufactured for railway applications. Common to all rolling stock computers is the approval to use them at temperatures ranging from -40 °C to + 85 °C at the component level. Thus, the railway computers meet standard EN50155, class TX. In addition, they include features such as a power failure bypass up to 10 milliseconds (EN50155, class S2) and range inputs for DC voltage between 16,8 V and 154 V. Thanks to its GPS and LTE, GSM and UMTS functions, the railway computers can also be used as an IoT gateway.

The railway computers feature dead reckoning navigation and a motion sensor. To prevent potential hacker attacks on the hardware side, the devices can be equipped with a Trusted Platform Module (TPM).

At Innotrans, Syslogic will also be showcasing its whole new machine learning innovation. You can find the company in hall 2.2, booth 207.

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