One CAN-channel to Ethernet interface

Kvaser (Sweden) has announced the Ethercan Light HS CAN to Ethernet interface. The company aims to provide a simple, one CAN-channel to Ethernet interface for Windows-based PCs.

The interface is supposed to facilitate the adoption of the Internet of Things concept within modern manufacturing environments (Photo: Kvaser)

IT ENABLES DATA FROM ANY CAN PRODUCT OR SYSTEM to be accessed over the Internet, via an Ethernet equipped PC. The interface provides a high-speed CAN connection (compliant with ISO 11898-2) up to 1 Mbit/s, can send and receive 8000 messages per second, and it is compatible with J1939, CANopen, NMEA 2000, and Devicenet. It is also compatible with applications written for other Kvaser CAN hardware with CANlib. The product has on-board buffer, weighs 100 g, measures 35 mm x 165 mm x 17 mm, and has a temperature range of -20 °C to 70 °C. It does not support error frame generation, but error frame detection.

The interface's Ethernet connection has auto-MDIX, meaning that it automatically detects and adjusts to the Ethernet cable type being used (either straight-through or crossover). It also offers built-in Power over Ethernet, allowing the device to receive both data and power over the Ethernet cable. Combining the company's plastic housing with galvanic isolation, this device offers a form-factor that allows it to be placed mostly anywhere, as well as the high durability expected of an interface that is used in industrial environments. The gateway is available with free software, free software updates and free support.

"With its extremely good EMC performance, the Ethercan Light HS is a fully-equipped interface with a large on-board RAM buffer and full compatibility with J1939, CANopen, NMEA 2000 and Devicenet. Nevertheless, this is simple to set up using the standard Kvaser API, in contrast to many other CAN to Ethernet products on the market," commented Michael Odälv of Kvaser.