

CAN FD interface boards

Under the Ixxat (Germany) brand, HMS (Sweden) offers the CAN-IB 500 and the CAN-IB 600. The two interface cards (passive/active) support not only CAN but also the CAN FD standard. Additionally they come with a suite of drivers and tools.

BOTH CARDS ARE FOR PCI EXPRESS STANDARD. They feature up to two CAN interfaces, which can be operated in either CAN or CAN FD modes. Galvanic isolation of the channels is optionally available. The active CAN-IB 600 also has a built-in micro-controller, so it can even be used in applications with increased requirements for data preprocessing such as high-precision timestamps or active filtering of the messages to be sent from and received by the card.

The cards are supported by both the Ixxat Windows driver packages (VCI) and the real-time driver packages (ECI for Linux, RTX, Intime, QNX). The Ixxat APIs for CANopen and J1939 also support the interfaces in CAN mode. For the analysis of CAN and CAN FD networks, HMS offers the Ixxat CAN-Analyser, which is a Windows tool.

“Classical” CAN, with its eight bytes of payload data and a maximum transmission rate of 1 Mbit/s, is part of a variety of applications. Applications that require the transmission of larger quantities of data, however, have had to move to other technologies until now, which is associated with higher costs. Now, with its capacity of up to 64 bytes of payload data and a higher bit rate for payload transmission, CAN FD is eliminating the old limitations of CAN, making it attractive for applications that have never been able to work with CAN.



(Photo: Ixxat)