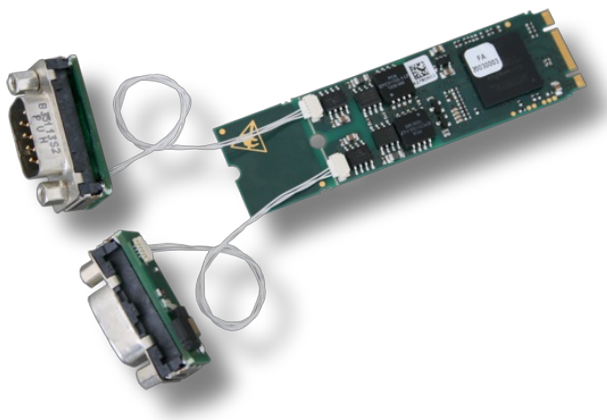


PCIE CARD

Extending mainboards by CAN FD

ESD Electronics (Germany) introduced the CAN-M.2/402-2-FD PCIe card with two electrically isolated CAN FD interfaces.



*CAN-M.2/402-2-FD board with two optional 9-pin Dsub connectors
(Source: ESD Electronics)*

The independent CAN interfaces are driven by the EsdACC (advanced CAN core) implemented in an Intel FPGA. It is certified according to ISO-16845:2004 test plan. The FPGA supports direct memory access (DMA) also called “Bus mastering” enabling autonomous data transfer to the working memory of the host CPU (central processing unit). This reduces the CPU load and the overall system latency, in particular at higher bit-rates.

Due to usage of MSI (message signaled interrupts) the board can be operated for example in hypervisor environments. The card with the M.2 form factor sizes 22 mm x 80 mm x 4,4 mm and can be shortened to 22 mm x 60 mm x 4,4 mm. The optional adapter CAN-PCleMini/402-Dsub comes with one 9-pin Dsub connector, selectable on-board CAN termination, and an adapter cable.

The product is also suitable for Classical CAN networks. CANopen, J1939 and Arinc 825 higher-layer protocol

libraries are available. The board is shipped with software drivers for Windows and Linux. It provides 64-bit time-stamps for CAN frames. A version for extended operating temperature range from -40 °C to +85 °C can be ordered. The release of the product is planned in Q3/2020.

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